



**EL DORADO COUNTY FIRE PROTECTION DISTRICT
BOARD MEETING**

AGENDA

**City of Placerville
Town Hall
549 Main Street
Placerville, CA 95667**

August 18, 2022
12:30 Closed Session
1:00 P.M. Open Session

Join Zoom Meeting

<https://us02web.zoom.us/j/82741735456?pwd=K3V0M24rcEEyYVgrR3dqSzJYeGVtZz0>

9

Meeting ID: 827 4173 5456
Passcode: 377473

One tap mobile
1(669)444-9171

Fire Chief, Tim Cordero

Mark Brunton (Div. 1)
Mickey Kaiserman (Div. 2)
Chris Swarbrick (Div. 3) -Chair

Ken Harper (Div. 4)
Paul Gilcrest (Div. 5)

12:30 P.M. OPEN SESSION

PUBLIC COMMENT:

Any person wishing to address the Board on any item on the closed session portion of the agenda may do so at this time.

12:35 P.M. CLOSED SESSION

- A. Meeting with designated representatives of the El Dorado County Fire Protection District regarding employee salaries, salary schedules, and/or other compensation in the form of fringe benefits pursuant to Government

Code Section 54957.6. The El Dorado County Fire Protection District's designated representatives are Fire Chief Tim Cordero, Director Chris Swarbrick and Director Ken Harper.
El Dorado County Professional Firefighter Union Local 3556

1:00 P.M. OPEN SESSION

1. CALL TO ORDER:

2. ROLL CALL:

3. PLEDGE OF ALLEGIANCE:

4. APPROVE AGENDA:

5. CONSENT CALENDAR:

(All items approved on a single vote except those pulled for individual discussion and action).

A. Minutes: July 21, 2022, Board Meeting

B. Claim Payments/Deposits:

<u>District Claims FY 21/22:</u>	<u>District Claims FY 22/23</u>	<u>District Deposits & JE:</u>
\$61,054.94	\$180,314.00	\$600,000.00
\$2,539.29	\$37,411.36	Health Contributions
\$33,600.00	\$107,186.81	\$362,525.37
\$32,184.78	\$64,723.88	\$653,883.87
\$48,334.48	\$2,985.36	
\$14,386.20	\$55,295.84	
\$184,152.76	\$20,680.66	
	\$126,550.57	
	\$2,435,560.00	

6. PUBLIC COMMENT:

(Any person wishing to address the Board on any item that is not on the agenda may do so at this time. Public comments are limited to three minutes per person.)

7. REPORT OF ACTION TAKEN IN CLOSED SESSION:

A. Meeting with designated representatives of the El Dorado County Fire Protection District regarding employee salaries, salary schedules, and/or other compensation in the form of fringe benefits pursuant to Government Code Section 54957.6. The El Dorado County Fire Protection District's designated representatives are Fire Chief Tim Cordero, Director Chris Swarbrick, and Director Ken Harper.
El Dorado County Professional Firefighter Union Local 3556

8. DEPARTMENTAL MATTERS:

- A. **Administrative** – Fire Prevention MOU with El Dorado County Building Department.
 - Discuss and Approve
- B. **Administrative** – Shared Services Discussions with Diamond Springs – El Dorado Fire Department
 - Discuss and Support
- C. **Administrative** – Strategic Planning Consultant
 - Presentation by Fitch and Associates
 - 1. 1:30 Time Slot
- D. **Administrative** – First Responder Fee Billing Contract
 - Discuss and Approve
- E. **Operational** – Ladder Truck Purchase
 - Discuss and Approve
- F. **Operational** – Image Trend RMS
 - Discuss and Approve

9. BOARD MATTERS:

10. COMMITTEE REPORTS:

Standing Committees:

- A. Strategic Planning
- B. Budget and Finance (Kaiserman, Gilchrest)
- C. Communications & Outreach (Brunton, Gilchrest)

Ad-hoc Committees:

- A. Operational Strategic Planning. (Swarbrick, Kaiserman)
- B. Facilities & Equipment (Brunton, Kaiserman)
- C. Human Resources (Swarbrick, Harper)

11. CORRESPONDENCE AND COMMUNICATION:

- Fire Engine Response Statistics.
- Medic Unit Response Statistics.

12. FIRE CHIEF'S REPORT:

13. BOARD COMMENTS:

14. FUTURE AGENDA ITEMS:

Next regularly scheduled Board Meeting, September 15, 2022.

15. ADJOURNMENT:

In compliance with the Americans with Disabilities Act, if you are a disabled person and you need a disability related modification or accommodation to participate in this meeting, then please contact Fire Chief Tim Cordero by telephone at 530-644-9630 or by fax 530-644-9636. Request must be made as early as possible and at least one full business day before the start of the meeting.

**EL DORADO COUNTY FIRE PROTECTION DISTRICT
BOARD MEETING**

July 21, 2022

12:30 Closed Session
1:00 P.M. Open Session

Join Zoom Meeting

<https://us02web.zoom.us/j/83696825434?pwd=V2ttdXlyQUZZWFhzQVptWXkrVmZKQT09>

Meeting ID: 836 9682 5434
Passcode: 030483

One tap mobile
1(669)444-9171

Fire Chief, Tim Cordero

12:15 P.M. OPEN SESSION

PUBLIC COMMENT:

Any person wishing to address the Board on any item on the closed session portion of the agenda may do so at this time.

No Public Comment

12:30 CLOSED SESSION

A. CONFERENCE WITH LABOR NEGOTIATORS
Unrepresented Employee: Fire Chief

1:00 P.M. OPEN SESSION

1. CALL TO ORDER:

Director Kaiserman called the meeting to order at 1:00 P.M.

2. ROLL CALL:

Present: Swarbrick, Kaiserman, Brunton, Harper, Gilcrest
Absent: None

3. PLEDGE OF ALLEGIANCE:

The Pledge of Allegiance was recited.

4. **APPROVE AGENDA:**

It was moved by Director Brunton and seconded by Director Harper to approve the agenda as presented. The motion was passed by the following vote:

Ayes: Swarbrick, Brunton, Kaiserman, Harper, Gilcrest
Noes: None
Absent: None

5. **CONSENT CALENDAR:**

(All items approved on a single vote except those pulled for individual discussion and action).

- A. Probationary Firefighter Letter of Unacceptable Performance
- B. Standard Operating Guideline
 - Article 3 – Section 26
 - Article 11 – Section 4
- C. Manipulative Performance Standard:
 - 6-3.645
 - 6-6.600
 - 6-6.601
 - 6-6.604
 - 6-6.645
 - 6-6.650
- D. Minutes: June 23, 2022 Board Meeting

E. Claim Payments/Deposits:

<u>District Claims FY 21/22:</u>	<u>District Claims FY 22/23:</u>	<u>District Deposits & JE:</u>
\$82,366.70	\$15,932.90	\$7,316.75
\$1,591.04	\$3,008.00	\$9,347.40
\$25,654.09		
\$25,048.93		
\$33,842.57		
\$4,801.21		
\$1,019.16		
\$838.37		
\$2,832.38		
\$48,334.48		
\$14,386.20		
\$184,152.76		
\$124,147.54		

It was moved by Director Brunton and seconded by Director Gilcrest to approve the Consent Calendar as presented. The motion was passed by the following vote:

Ayes: Swarbrick, Brunton, Kaiserman, Harper, Gilcrest
Noes: None
Absent: None

6. CEREMONIAL MATTERS:

- A. Ceremonial Introduction of Arson K-9 Denali

7. PUBLIC COMMENT:

(Any person wishing to address the Board on any item that is not on the agenda may do so at this time. Public comments are limited to five minutes per person).

Angel Ball

8. REPORT OF ACTION TAKEN IN CLOSED SESSION:

A. CONFERENCE WITH LABOR NEGOTIATORS

Unrepresented Employee: Fire Chief

Director Kaiserman stated the Board approved an amendment to Chief Cordero's contract.

9. DEPARTMENTAL MATTERS:

A. Administrative – Ordinance 2022-01 First Responder Fee

- Review and Adopt

Public Comment:

Roger Burger

It was moved by Director Harper and seconded by Director Gilchrest to approve First Responder Fee Ordinance 2022-01 and provide staff direction to begin the implementation process as previously described. The motion was passed by the following vote:

Ayes: Swarbrick, Kaiserman, Brunton, Harper, Gilchrest

Noes: None

Abstain: None

Absent: None

B. Administrative – Advanced Life Support Ambulance Agreement Between El Dorado County Emergency Service Authority and El Dorado County Fire Protection District.

- Review and Approve

It was moved by Director Brunton and seconded by Director Swarbrick to approve the Advanced Life Support Ambulance Agreement Between El Dorado County Emergency Service Authority and El Dorado County Fire Protection District Effective July 1, 2022. The motion was passed by the following vote:

Ayes: Swarbrick, Kaiserman, Brunton, Harper, Gilchrest

Noes: None

Abstain: None

Absent: None

C. **Administrative** - Request for Proposal – Strategic Planning Consultant

- Review

Public Comment:

Lloyd Ogan

The Board provided staff direction to confirm availability for Finch and Associates to attend the next regularly scheduled meeting.

D. **Administrative** – SB361

- Discussion

E. **Administrative** – Resolution 2022-06 – Jomesco Annexation Tax Increment

- Review and Adopt

It was moved by Director Swarbrick and seconded by Director Brunton to approve Resolution 2022-06 – Jomesco Annexation Tax Increment. The motion was passed by the following vote:

Ayes: Swarbrick, Kaiserman, Brunton, Harper, Gilchrest

Noes: None

Abstain: None

Absent: None

10. **BOARD MATTERS:**

11. **COMMITTEE REPORTS:**

Standing Committees:

A. Strategic Planning

No Report

B. Budget and Finance (Kaiserman, Gilchrest)

Director Kaiserman provided a summary of the Budget and Finance Committee Meeting that took place on July 19, 2022.

C. Communications & Outreach (Brunton, Gilchrest)

Director Gilchrest stated they are scheduled to meet on July 28, 2022, at Station 25.

Ad-hoc Committees:

A. Facilities and Equipment (Brunton, Kaiserman)

No Report

B. Human Resources (Swarbrick, Harper)

No Report

12. CORRESPONDENCE AND COMMUNICATION:

- Fire Engine Response Statistics.
- Medic Unit Response Statistics.
- Thank you letters from Division Chief McVay to all individuals that assisted in the Engineer Exam.
- Thankyou letters to Engineer Carson Triggs and Captain Luke Shepard from Interim Fire Chief Chad Stephen.

13. FIRE CHIEF'S REPORT:

Public Comment:

Roger Burger

- JPA:
 - Diamond Springs Fire continues to be unable to staff medic 49, which shut down on July 1st. Medic 28 has been temporarily relocated to Station 48, to provide a second core unit. The JPA is continuing to monitor the call volumes, locations and impacts to the system for additional changes that may be required. Diamond Springs Fire is still operating under their Force Majeure and has not made a final decision regarding Medic 49.
 - The JPA Board and EMSOC are monitoring call volumes on a weekly basis, EMSOC looking for opportunities to make adjustments to the system.
 - The JPA Ad-Hoc Medic Unit Staffing committee continues to move forward with developing a single role and / or hybrid program in the event the system transitions to this model.
- City of Placerville
 - National Night Out is August 2nd, and we will have multiple units/personnel participating in Placerville's NNO event.
- District information
 - The station 17 project continues to move forward, Chief Williams and the project manager are close to going out to bid.
 - We are continuing to work with the USFS regarding the lease at Station 16. The expired lease and staffing challenges for the USFS have resulted in minimal staffing at Station 16.
 - The MOU between Tribal Fire and County Fire has been completed, Chief Lohan is working with the ECC for dispatching updates.
 - The 4th of July fireworks went off smoothly at the Placerville Speedway, thank you Captain Shepard for heading this up.
 - We sent Engine 328 out as part of a strike team to the Electra Fire in Amador County. Crews have all returned, no issues.
 - Our promotional ceremony took place on July 8th for Engineer Chima, Captain Duncan and Division Chief / Fire Marshal Stirling. With the promotion of Engineer Chima, we now have 15 engineers – all engines/shifts staffed, with one additional “acting engineer”.

Thank you to Chief McVay and his cadre for all of the work on getting these exams completed, as well as our engineers for making the position a success for the District. Thank you to Red Hawk Casino and the Shingle Springs Band of Miwok Indians for again supporting our District with hosting this ceremony.

- We are working with retired Engineer Campbell on assistance with CISM/Peer Support. Mike was a founding member of our team at ECF and currently is an instructor for IAFF. Funding is being sought out via grant funds by Mike, working through the Marshall Foundation for Community Health as his potential fiscal sponsor.
- Staff is looking into new software platforms for both our payroll system and accounts payable. Both systems are outdated and need to be replaced.
- Crews recently participated in active shooter training in conjunction with other fire agencies, EDSO was the lead agency.

14. BOARD COMMENTS:

Brunton: No Comment

Swarbrick: No Comment

Kaiserman: No Comment

Harper: Director Harper thanked Captain Poganski for his off-duty rescue.

Gilchrest: Director Gilchrest stated he is so impressed with the digital package and has no need for the paper package anymore. Director Gilchrest stated he wanted to thank Division Chief Stirling for his assistance with the Fire Safe Council in Sierra Rama; with Chief Stirling's assistance they are becoming a Firewise Community.

15. FUTURE AGENDA ITEMS:

Next regularly scheduled Special Board Meeting August 18, 2022.

- 16. ADJOURNMENT:** *At 2:49 P.M. it was moved by Director Gilchrest and seconded by Director Brunton to adjourn; all in favor.*

EL DORADO COUNTY FIRE FINANCE REPORT

1. Fire Operations Budget Summary
2. District Claims Submitted for Payment

District Claims FY 21/22:

- \$61,054.94
- \$2,539.29
- \$33,600.00
- \$32,184.78
- \$48,334.48
- \$14,386.20
- \$184,152.76

District Claims FY 22/23:

- \$180,314.00
- \$37,411.36
- \$107,186.81
- \$64,723.88
- \$2,985.36
- \$55,295.84
- \$20,680.66
- \$126,550.57
- \$2,435,560.00

District Deposits/Journal Entries FY 21/22:

- \$600,000.00
- Health Insurance Contributions JE's
- \$362,525.37
- \$653,883.87

EL DORADO COUNTY FIRE PROTECTION DISTRICT

Preliminary Fire Operations Budget Summary 2022-2023

July 1, 2020 Through July 31, 2022 9% Expended

Sub	Revenues / Sources	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Collected
<i>Carry-over funds from previous year</i>					
100	Property Taxes-Secured (current year)	\$10,193,763.00	\$0.00	(\$10,193,763.00)	0%
110	Property Taxes-Unsecured (current)	\$172,904.00	\$0.00	\$0.00	0%
140	Supplemental Property Taxes-Current	\$229,271.00	\$0.00	(\$229,271.00)	0%
174	Tax: Timber Yield	\$86.00	\$0.00	(\$86.00)	0%
342	Fund Balance (Measure S Fund Transfer St. 28)	\$0.00	\$0.00	\$0.00	0%
820	State Homeowners Property Tax Relief	\$77,609.00	\$0.00	(\$77,609.00)	0%
<i>Prior Years Property Taxes</i>					
120	Property Taxes-Prior Secured	\$3,867.00	\$0.00	(\$3,867.00)	0%
130	Property Taxes-Prior Unsecured	\$6,840.00	\$0.00	(\$6,840.00)	0%
150	Supplemental Property Taxes-Prior	\$20,535.00	\$0.00	(\$20,535.00)	0%
360	Taxes-Penalties	\$9,009.00	\$0.00	(\$9,009.00)	0%
<i>Voter Approved Special Taxes</i>					
175	Direct Assessment	\$514,176.00	\$0.00	(\$514,176.00)	0%
1310	Fire Suppression (Shingle Springs)	\$5,214.00	\$0.00	(\$5,214.00)	0%
<i>Other Fees & Service Reimbursements</i>					
880	St: Other	\$0.00	\$0.00	\$0.00	100%
881	Federal/State Reimbursements	\$861,795.00	\$0.00	(\$861,795.00)	0%
400	Interest	\$20,655.00	\$0.00	(\$20,655.00)	0%
420	Rent: Land & Building	\$25,969.00	\$0.00	(\$25,969.00)	0%
1100	Other Federal Revenue CARES Relief Funds	\$0.00	\$0.00	\$0.00	0%
1200	Temporary T.O.T. Reimbursement	\$60,000.00	\$0.00	(\$60,000.00)	0%
1400/1401	Inspection Fee's - Prevention - Plan Review Fees	\$146,505.00	\$0.00	(\$146,505.00)	0%
1403	Development Fees Trust Fund	\$0.00	\$0.00	\$0.00	0%
4304	Ambulance Admin Reimbursement (1686)	\$304,328.00	\$0.00	(\$304,328.00)	0%
1744	Misc: Inspection or Services VHR	\$0.00	\$6,500.00	\$6,500.00	0%
1940	Miscellaneous	\$5,465.00	\$0.00	(\$5,465.00)	0%
1942	Misc: Reimbursement	\$0.00	\$0.00	\$0.00	0%
1947	Insurance Refunds & Safety Funds	\$6,466.00	\$0.00	(\$6,466.00)	0%
2000	Sale of Fixed Assets	\$2,880.00	\$0.00	(\$2,880.00)	0%
1207	Shingle Springs Rancheria	\$641,062.00	\$0.00	(\$641,062.00)	0%
1800	Interfund Rev: Service Between Fund Types	\$138,040.00	\$0.00	(\$138,040.00)	0%
Total Revenue			\$6,500.00	(\$13,128,995.00)	#VALUE!

EL DORADO COUNTY FIRE PROTECTION DISTRICT
Preliminary Fire Operations Budget Summary 2022-2023
July 1, 2021 Through July 31, 2022 9% Expended

Sub	Salaries & Benefits Expenditures / Uses: Class I	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Expended
3000	Salaries and Wages	\$5,256,575.00	\$222,954.47	(\$5,033,620.53)	4%
3001	Directors/Apprentice FF/Prevention Consultants	\$15,000.00	\$40.00	(\$14,960.00)	0%
3002	Overtime	\$1,557,077.00	\$65,518.62	(\$1,491,558.38)	4%
3004	Other Compensation	\$300,425.00	\$19,558.26	(\$280,866.74)	7%
3020	Retirement	\$2,551,361.00	\$2,472,491.34	(\$78,869.66)	97%
3021	OASDI	\$6,279.00	\$2.48	(\$6,276.52)	0%
3022	Medicare	\$97,638.00	\$4,431.37	(\$93,206.63)	5%
3040	Health & Dental	\$1,189,923.00	\$240,666.65	(\$949,256.35)	20%
3041	Unemployment Insurance	\$2,986.00	\$0.00	(\$2,986.00)	0%
3042	Long Term Disability & Volunteer Program	\$21,387.00	\$2,784.00	(\$18,603.00)	13%
3043	Defer Comp Employer Share	\$76,485.00	\$3,252.16	(\$73,232.84)	4%
3044	Vision	\$12,228.00	\$1,986.17	(\$10,241.83)	16%
3060	Workman's Compensation Insurance	\$498,000.00	\$127,032.00	(\$370,968.00)	26%
Total		\$11,585,364.00	\$3,160,717.52	(\$8,424,646.48)	27.28%

EL DORADO COUNTY FIRE PROTECTION DISTRICT
Preliminary Fire Operations Budget Summary 2022-2023
 July 1, 2021 Through July 31, 2022 9% Expended

Sub	Expenditures / Uses: Class II	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Expended
4020	Clothing	\$15,000.00	\$0.00	(\$15,000.00)	0%
4021	Safety Equipment	\$13,000.00	\$0.00	(\$13,000.00)	0%
4022	Uniforms	\$5,000.00	(\$614.91)	(\$5,614.91)	-12%
4040	Communications	\$149,400.00	\$3,127.89	(\$146,272.11)	2%
4044	Cable/Internet Service	\$0.00	\$0.00	\$0.00	0%
4060	Food	\$5,200.00	\$0.00	(\$5,200.00)	0%
4080	Warehouse Expenses	\$25,000.00	\$2,985.36	(\$22,014.64)	12%
4085	Refuse Disposal	\$19,000.00	\$1,661.58	(\$17,338.42)	9%
4087	Extermination	\$1,000.00	\$0.00	(\$1,000.00)	0%
4100	Insurance Premiums	\$91,000.00	\$406.60	(\$90,593.40)	0%
4140	Maintenance - Equipment	\$9,750.00	\$61.06	(\$9,688.94)	1%
4142	Maintenance - Radios	\$8,000.00	\$0.00	(\$8,000.00)	0%
4145	Maintenance - Equipment Parts	\$16,500.00	\$0.00	(\$16,500.00)	0%
4160	Maintenance - Vehicles	\$70,000.00	\$20,096.27	(\$49,903.73)	29%
4162	Maintenance - Vehicle Supplies	\$70,000.00	\$18,980.72	(\$51,019.28)	27%
4164	Maintenance -Tires & tubes	\$30,000.00	\$0.00	(\$30,000.00)	0%
4180	Maintenance - Buildings & Improvements	\$10,000.00	\$0.00	(\$10,000.00)	0%
4197	Building Supplies	\$15,000.00	\$360.31	(\$14,639.69)	2%
4200	Medical Supplies	\$0.00	\$0.00	\$0.00	0%
4220	Memberships	\$10,000.00	\$85.00	(\$9,915.00)	1%
4260	Office Expense	\$10,000.00	\$192.87	(\$9,807.13)	2%
4261	Postage	\$3,000.00	\$0.00	(\$3,000.00)	0%
4263	Subscriptions	\$200.00	\$0.00	(\$200.00)	0%
4300	Professional & Specialized Services	\$217,600.00	\$7,417.25	(\$210,182.75)	3%
4304	Agency Administration	\$0.00	\$0.00	\$0.00	0%
4313	Legal Services - Being Paid out of 4300	\$50,000.00	\$0.00	(\$50,000.00)	0%
4324	Medical, Dental, & Lab Services	\$20,000.00	\$2,311.00	(\$17,689.00)	12%
4400	Publications & Legal Notices	\$500.00	\$135.00	(\$365.00)	27%
4420	Rent & Leases Equipment	\$18,300.00	\$978.78	(\$17,321.22)	5%
4440	Rents & Leases	\$500.00	\$0.00	(\$500.00)	0%
4461	Minor Equipment	\$37,700.00	\$0.00	(\$37,700.00)	0%
4462	Equipment: Computers	\$4,000.00	\$0.00	(\$4,000.00)	0%
4500	Special Departmental Expense	\$34,950.00	\$1,724.18	(\$33,225.82)	5%
4503	Educational Training	\$5,000.00	\$0.00	(\$5,000.00)	0%
4507	Fire & Safety Supplies	\$25,000.00	\$0.00	(\$25,000.00)	0%
4529	Software License	\$30,625.00	\$0.00	(\$30,625.00)	0%
4536	Retirement Benefit	\$0.00	\$0.00	\$0.00	100%
4617	Staff Development	\$40,800.00	\$915.00	(\$39,885.00)	2%
4600	Transportation & Travel	\$0.00	\$0.00	\$0.00	0%
4606	Fuel Purchase - Bulk	\$130,000.00	\$0.00	(\$130,000.00)	0%
4620	Utilities	\$97,000.00	\$7,088.42	(\$89,911.58)	7%
	Total	\$1,288,025.00	\$67,912.38	(\$1,220,112.62)	5%

EL DORADO COUNTY FIRE PROTECTION DISTRICT
Preliminary Fire Operations Budget Summary 2022-2023
 July 1, 2021 Through July 31, 2022 9% Expended

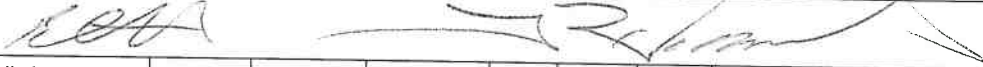
Sub	Expenditures: Class III	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Expended
5060	Retirement/Interest of Other Long Term Debt	\$99,204.00	\$107,186.81	\$7,982.81	108%
5100	Interest	\$38,836.00	\$0.00	(\$38,836.00)	0%
5142	Audit Findings	\$0.00	\$0.00	\$0.00	0%
Total		\$138,040.00	\$107,186.81	(\$30,853.19)	78%
Sub	Fixed Assets - Class IV	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Expended
6020	Fixed Assets - Structures & Improvements	\$125,000.00	\$0.00	(\$125,000.00)	0%
6040	Fixed Assets - Apparatus/Equipment	\$403,500.00	\$66,443.10	(\$337,056.90)	16%
6042	Fixed Assets - Computer Systems	\$0.00	\$0.00	\$0.00	0%
Total		\$528,500.00	\$66,443.10	(\$462,056.90)	13%

EL DORADO COUNTY FIRE PROTECTION DISTRICT Preliminary Fire Operations Budget Summary 2022-2023 July 1, 2021 Through July 31, 2022 9% Expended				
	Preliminary Budget 2022-2023	Expended 2022-2023	Over or (Under) Budget	Percentage Collected
Expenditures: Class III	Preliminary Budget 2022-2023	Expended 2022-2023	Over or Under Budget	Percentage Expended
Class I: Salaries/Benefits	\$11,585,364.00	\$3,160,717.52	(\$8,424,646.48)	27%
Class II: Service & Supplies	\$1,288,025.00	\$67,912.38	(\$1,220,112.62)	5%
Class III: Long Term Debt	\$138,040.00	\$107,186.81	(\$30,853.19)	78%
Class IV: Fixed Assets	\$528,500.00	\$66,443.10	(\$462,056.90)	13%
TOTALS	\$13,539,929.00	\$3,402,259.81	(\$10,137,669.19)	25%

Outside District Claim Form

El Dorado County Fire		AUDITOR USE ONLY	PLEASE INDICATE CHECK DISTRIBUTION METHOD IN THE SPACE BELOW:		PROCESSOR USE ONLY
7/25/2022			US MAIL: Return to District:		
d By:	Kathleen Freeman		Call/Email for pickup: 530-644-9630 # 104		
Phone:	530-644-9630 # 104		Document Total:		
154 2021-22 7-25-2022 EDCF Bills		DEPT: _____	\$61,054.94		BATCH: _____
		FILE NAME: _____			Entered by: _____
		AUDITED BY: _____			Date: _____

ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).

Authorizing signatures: 

VENDOR	SUFFIX	Invoice Number (Limit 20)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1080	0	05252022-02	144.00	EDCF07252022	7/25/22	2	8561000	4539	EDCF Inv. 05252022-02 KF GoTo	144.00	US Bank		
1080	0	05262022-02	42.91	EDCF07252022	07/25/22	2	8561000	4700	EDCF Inv. 05262022-02 KF St-21	42.91	US Bank		
1080	0	05272022-01	2547.00	EDCF07252022	07/25/22	2	8561000	4022	EDCF Inv. 05272022-01 KF Uniform Patches	2547.00	US Bank		
1080	0	05292022-03	65.72	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 05292022-03 KF St-74	65.72	US Bank		
1080	0	06012022-15	96.64	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 06012022-15 KF St-72	96.64	US Bank		
1080	0	06+012022-16	135.41	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 06+012022-16 KF St-19	135.41	US Bank		
1080	0	06022022-01	30.00	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 06022022-01 KF St-72	30.00	US Bank		
1080	0	06012022-18	27.34	EDCF07252022	07/25/22	2	8561000	4260	EDCF Inv. 06012022-18 Office Supplies	27.34	US Bank		
1080	0	06012022-19	131.89	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06012022-19 KF St-21	131.89	US Bank		
1080	0	06032022-01	1558.03	EDCF07252022	07/25/22	2	8561000	4260	EDCF Inv. 06032022-01 KF Office Supplies EZ Up	1558.03	US Bank		
1080	0	06042022-03	80.55	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 06042022-03 KF	80.55	US Bank		
1080	0	06062022-01	14.99	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06062022-01 KF Zoom	14.99	US Bank		
1080	0	06062022-02	2178.67	EDCF07252022	07/25/22	2	8561000	4162	EDCF Inv. 06062022-02 KF	2178.67	US Bank		
1080	0	06072022-03	14.99	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06072022-03 KF Adobe	14.99	US Bank		
1080	0	06092022-05	2238.31	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06092022-05 KF Desk	2238.31	US Bank		
1080	0	06102022-04	700.00	EDCF07252022	07/25/22	2	8561000	4160	EDCF Inv. 06102022-04 KF E-319 Tow	700.00	US Bank		
1080	0	06112022-01	150.94	EDCF07252022	07/25/22	2	8561000	4040	EDCF Inv. 06112022-01 KF St-17	150.94	US Bank		
1080	0	06162022-04	16.08	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06162022-04 KF Prime	16.08	US Bank		
1080	0	06202022-01	2213.64	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06202022-01 KF St-28	2213.64	US Bank		
1080	0	06212022-02	2548.00	EDCF07252022	07/25/22	2	8561000	4022	EDCF Inv. 06212022-02 Uniform Patches	2548.00	US Bank		
1080	0	05252022-03	606.25	EDCF07252022	07/25/22	2	8561000	6040	EDCF Inv. 05252022-03 E17 LR-17	606.25	US Bank		
1080	0	06062022-03	58.36	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06062022-03 E21 St-25	58.36	US Bank		

Original signatures:

1080	0	06082022-02	33.12	EDCF07252022	07/25/22	2	8561000	4060	EDCF Inv. 06082022-02 E21 E-25	33.12	US Bank
1080	0	06092022-06	27.04	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06092022-06 E21 St-25	27.04	US Bank
1080	0	06122022-03	45.35	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06122022-03 E21 St-25	45.35	US Bank
1080	0	06132022-03	135.37	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06132022-03 E21 St-25	135.37	US Bank
1080	0	06172022-01	5.37	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06172022-01 E21 E-25	5.37	US Bank
1080	0	06172022-02	143.66	EDCF07252022	07/25/22	2	8561000	4162	EDCF Inv. 06172022-02 E21 E-25	143.66	US Bank
1080	0	06192022-03	464.11	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06192022-03 E21 E-25	464.11	US Bank
1080	0	06192022-04	12.54	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06192022-04 E21 E-25	12.54	US Bank
1080	0	06062022-04	68.84	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06062022-04 E23 St-19	68.84	US Bank
1080	0	06192022-05	237.07	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06192022-05 E25 St-25	237.07	US Bank
1080	0	06012022-19	0.99	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06012022-19 PM	0.99	US Bank
1080	0	06102022-05	239.93	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06102022-05 TW Facilities	239.93	US Bank
1080	0	06122022-04	125.60	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06122022-04 TW Facilities	125.60	US Bank
1080	0	06142022-01	936.00	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-01 TW Facilities	936.00	US Bank
1080	0	06072022-04	411.39	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-04 TW Facilities	411.39	US Bank
1080	0	06082022-03	4323.91	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06082022-03 TW Facilities	4323.91	US Bank
1080	0	06092022-07	3217.48	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06092022-07 TW Facilities	3217.48	US Bank
1080	0	06072022-05	1284.43	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-05 TW Facilities	1284.43	US Bank
1080	0	05262022-03	63.77	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 05262022-03 TW Facilities	63.77	US Bank
1080	0	05272022-02	35.38	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 05272022-02 TW Facilities	35.38	US Bank
1080	0	05272022-03	39.99	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 05272022-03 TW Facilities	39.99	US Bank
1080	0	05272022-04	337.84	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 05272022-04 TW Facilities	337.84	US Bank
1080	0	06012022-20	11731.58	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06012022-20 TW Facilities	11731.58	US Bank
1080	0	06012022-21	38.91	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06012022-21 TW Facilities	38.91	US Bank
1080	0	06012022-22	1735.82	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06012022-22 TW Facilities	1735.82	US Bank
1080	0	06072022-06	814.95	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-06 TW Facilities	814.95	US Bank
1080	0	06072022-07	426.74	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-07 TW Facilities	426.74	US Bank
1080	0	06072022-08	104.90	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-08 TW Facilities	104.90	US Bank
1080	0	06092022-08	123.93	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06092022-08 TW Facilities	123.93	US Bank
1080	0	06102022-06	212.70	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06102022-06 TW Facilities	212.70	US Bank
1080	0	06122022-05	15.76	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06122022-05 TW Facilities	15.76	US Bank
1080	0	0612022-06	242.32	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 0612022-06 TW Facilities	242.32	US Bank
1080	0	06142022-02	296.02	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-02 TW Facilities	296.02	US Bank
1080	0	06142022-03	15.49	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-03 TW Facilities	15.49	US Bank
1080	0	06142022-04	1187.14	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-04 TW Facilities	1187.14	US Bank
1080	0	06142022-05	4277.14	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-05 TW Facilities	4277.14	US Bank
1080	0	06142022-06	486.92	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-06 TW Facilities	486.92	US Bank
1080	0	06132022-04	371.69	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06132022-04 TW Facilities	371.69	US Bank
1080	0	06152022-07	285.34	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06152022-07 TW Facilities	285.34	US Bank
1080	0	06152022-08	417.18	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06152022-08 TW Facilities	417.18	US Bank
1080	0	06142022-07	288.55	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-07 TW Facilities	288.55	US Bank
1080	0	06142022-08	32.16	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06142022-08 TW Facilities	32.16	US Bank
1080	0	06182022-01	15.11	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06182022-01 TW Facilities	15.11	US Bank
1080	0	06192022-06	366.16	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06192022-06 TW Facilities	366.16	US Bank

Printing signatures:

1080	0	06202022-01	448.31	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06202022-01 TW Facilities	448.31	US Bank
1080	0	05302022-01	84.99	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 05302022-01 WS Supplies	84.99	US Bank
1080	0	06092022-09	65.00	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06092022-09 WS Supplies	65.00	US Bank
1080	0	06092022-10	65.00	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06092022-10 WS Supplies	65.00	US Bank
1080	0	06092022-11	65.00	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06092022-11 WS Supplies	65.00	US Bank
1080	0	06092022-12	65.00	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06092022-12 WS Supplies	65.00	US Bank
1080	0	06142022-09	24.99	EDCF07252022	07/25/22	2	8561000	4080	EDCF Inv. 06142022-09 WS Supplies	24.99	US Bank
1080	0	06082022-04	83.08	EDCF07252022	07/25/22	2	8561000	4260	EDCF Inv. 06082022-04 LL Office Supplies	83.08	US Bank
1080	0	06082022-05	58.00	EDCF07252022	07/25/22	2	8561000	4261	EDCF Inv. 06082022-05 LL Postage	58.00	US Bank
1080	0	06202022-02	12.87	EDCF07252022	07/25/22	2	8561000	4260	EDCF Inv. 06202022-02 LL Office Supplies	12.87	US Bank
1080	0	05262022-04	99.99	EDCF07252022	07/25/22	2	8561000	4500	EDCF Inv. 05262022-04 BS Prevention	99.99	US Bank
1080	0	06132022-05	126.64	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06132022-05 BS EZ-Up	126.64	US Bank
1080	0	06162022-06	17.13	EDCF07252022	07/25/22	2	8561000	4162	EDCF Inv. 06162022-06 BS	17.13	US Bank
1080	0	06122022-07	14.99	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06122022-07 GA Adobe	14.99	US Bank
1080	0	05262022-05	1496.44	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 05262022-05 SA St-23	1496.44	US Bank
1080	0	05242022-01	18.26	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 05242022-01 SA St-23	18.26	US Bank
1080	0	05252022-06	26.71	EDCF07252022	07/25/22	2	8561000	4060	EDCF Inv. 05252022-06 SA ILFT Class	26.71	US Bank
1080	0	06022022-02	127.00	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06022022-02 SA St-23	127.00	US Bank
1080	0	06032022-02	80.79	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06032022-02 SA St-23	80.79	US Bank
1080	0	06072022-09	1546.85	EDCF07252022	07/25/22	2	8561000	6020	EDCF Inv. 06072022-09 SA St-23	1546.85	US Bank
1080	0	06162022-07	297.69	EDCF07252022	07/25/22	2	8561000	4197	EDCF Inv. 06162022-07 SA ST-23	297.69	US Bank
1080	0	06102022-07	179.88	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06102022-07 LS Adobe	179.88	US Bank
1080	0	06152022-09	15.00	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06152022-09 LS Active911	15.00	US Bank
1080	0	05252022-04	925.00	EDCF07252022	07/25/22	2	8561000	4022	EDCF Inv. 05252022-04 TC Duty Shirts	925.00	US Bank
1080	0	05252022-05	120.00	EDCF07252022	07/25/22	2	8561000	4300	EDCF Inv. 05252022-05 TC EAP	120.00	US Bank
1080	0	06022022-03	120.00	EDCF07252022	07/25/22	2	8561000	4300	EDCF Inv. 06022022-03 TC EAP	120.00	US Bank
1080	0	06032022-03	84.99	EDCF07252022	07/25/22	2	8561000	4539	EDCF Inv. 06032022-03 TC Norton	84.99	US Bank
1080	0	06042022-04	14.99	EDCF07252022	44767	2	8561000	4539	EDCF Inv. 06042022-04 TC Adobe	14.99	US Bank
1080	0	06062022-05	1.99	EDCF07252022	44767	2	8561000	4539	EDCF Inv. 06062022-05 TC	1.99	US Bank
1080	0	06072022-10	40	EDCF07252022	44767	2	8561000	4060	EDCF Inv. 06072022-10 TC Health and Wellness	40	US Bank
1080	0	06092022-13	244.76	EDCF07252022	44767	2	8561000	4040	EDCF Inv. 06092022-13 TC	244.76	US Bank
1080	0	06152022-10	1145.69	EDCF07252022	44767	2	8561000	4040	EDCF Inv. 06152022-10 TC Admin Phones	1145.69	US Bank
1080	0	06152022-16	173.9	EDCF07252022	44767	2	8561000	4022	EDCF Inv. 06152022-16 TC Engineer	173.9	US Bank
1080	0	06172022-03	120	EDCF07252022	44767	2	8561000	4300	EDCF Inv. 06172022-03 TC EAP	120	US Bank
1080	0	05272022-05	59.93	EDCF07252022	44767	2	8561000	4162	EDCF Inv. 05272022-05 PL	59.93	US Bank
1080	0	05312022-03	41.69	EDCF07252022	44767	2	8561000	4162	EDCF Inv. 05312022-03 PL	41.69	US Bank
1080	0	05312022-04	125	EDCF07252022	44767	2	8561000	4606	EDCF Inv. 05312022-04 PL Fule	125	US Bank
1080	0	06022022-04	660	EDCF07252022	44767	2	8561000	4617	EDCF Inv. 06022022-04 PL Training	660	US Bank
1080	0	06032022-04	-27.89	EDCF07252022	44767	2	8561000	4162	EDCF Inv. 06032022-04 PL Credit	-27.89	US Bank
1080	0	06032022-05	38.52	EDCF07252022	44767	2	8561000	4162	EDCF Inv. 06032022-05 PL	38.52	US Bank
1080	0	06152022-12	12.99	EDCF07252022	44767	2	8561000	4539	EDCF Inv. 06152022-12 Adobe	12.99	US Bank
1080	0	06152022-13	850	EDCF07252022	44767	2	8561000	4162	EDCF Inv. 06152022-13 PL	850	US Bank

FY 21/22

Outside District Claim Form

District:	El Dorado County Fire	AUDITOR USE ONLY	PLEASE INDICATE CHECK DISTRIBUTION	PROCESSOR USE ONLY
Date:	6/30/2022	DEPT: _____ FILE NAME: _____ AUDITED BY: _____ Date: _____	METHOD IN THE SPACE BELOW:	BATCH:
Prepared By:	Kathleen Freeman		US MAIL: Return to District:	
Contact Phone:	530-644-9630 # 104		Call/Email for pickup: 530-644-9630 # 104	Document Total:
152 2021-22 6-30-2022 EDCF Bills			\$32,184.78	Date:

THE ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).



Authorizing signatures:

ALWAYS 1	VENDOR	SUFFIX	Invoice Number (Limit 30)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1	241	0	805416057	573.46	EDCF06302022	6/30/22	2	8561000	4700	EDCF Inv. 805416057 Acct. 200737467 St-25	573.46	Amerigas, Inc.		
1	933	0	13287	662.00	EDCF06302022	06/30/22	2	8561000	4180	EDCF Inv. 13287 St-72	662.00	California Overhead Doors		
1	2712	0	97832	22.35	EDCF06302022	06/30/22	2	8561000	4140	EDCF Inv. 97832 E-28	22.35	Camino Power Tool		
1	487	0	1711920	36.07	EDCF06302022	06/30/22	2	8561000	4162	EDCF Inv. 1711920	36.07	Capitol Clutch And Brake, Inc.		
1	487	0	1721702	33.29	EDCF06302022	06/30/22	2	8561000	4162	EDCF Inv. 1721702	33.29	Capitol Clutch And Brake, Inc.		
1	487	0	1723819	627.56	EDCF06302022	06/30/22	2	8561000	4162	EDCF Inv. 1723819	627.56	Capitol Clutch And Brake, Inc.		
1	487	0	ADJ2/22/22	-531.14	EDCF06302022	06/30/22	2	8561000	4162	EDCF Inv. ADJ2/22/22 Credit	-531.14	Capitol Clutch And Brake, Inc.		
1	72	0	07122022-01	623.62	EDCF06302022	06/30/22	2	8561000	4700	EDCF Inv. 07122022-01 Acct. 8987-5172 St-25	623.62	City Of Placerville		
1	1491	0	07032022-01	146.09	EDCF06302022	06/30/22	2	8561000	4040	EDCF Inv. 07032022-01 Acct.8155600520285746	146.09	Comcast		
1	1902	0	150191	1590.91	EDCF06302022	06/30/22	2	8561000	6020	EDCF Inv. 150191 St-21 Dishwasher/Stove	1590.91	Edwards A-1 Appliance		
1	4660	0	4212	2655.50	EDCF06302022	06/30/22	2	8561000	4300	EDCF Inv. 4212 Legal Services June 22	2655.50	Girard, Edwards, Stevens & Tucker LLP		
1	46	0	06292022-01	132.60	EDCF06302022	06/30/22	2	8561000	4700	EDCF Inv. 06292022-01 Acct. 039078-001 St-19	132.60	El Dorado Irrigation District		
1	313	1	06292022-02	505.78	EDCF06302022	06/30/22	2	8561000	4300	EDCF Inv. 06292022-02 Printing Fee	505.78	El Dorado Museums Foundation		
1	2654	0	17014	12.72	EDCF06302022	06/30/22	2	8561000	4197	EDCF Inv. 17014 St-72	12.72	Gold Country Ace Hardware and Hobbies		
1	2654	0	17118	14.39	EDCF06302022	06/30/22	2	8561000	4197	EDCF Inv. 17118 St-72	14.39	Gold Country Ace Hardware and Hobbies		
1	2654	0	17225	17.92	EDCF06302022	06/30/22	2	8561000	4197	EDCF Inv. 17225 St-72	17.92	Gold Country Ace Hardware and Hobbies		
1	822	1	741831	222.36	EDCF06302022	06/30/22	2	8561000	4700	EDCF Inv. 741831 Gold Hill	222.36	JS West		
1	4984	1	1223017	678.55	EDCF06302022	06/30/22	2	8561000	4500	EDCF Inv. 1223017	678.55	Life-Assist		
1	62	0	06232022-01	101.83	EDCF06302022	06/30/22	2	8561000	4700	EDCF Inv. 06232022-01 Acct. 4577462625-8 St-16	101.83	Pacific Gas & Electric, Inc.		
1	62	0	0629222-03	10.04	EDCF06302022	06/30/22	2	8561000	4700	EDCF Inv. 0629222-03 Acct. 17558025185-9 St-28	10.04	Pacific Gas & Electric, Inc.		
1	3193	0	117015	19.46	EDCF06302022	06/30/22	2	8561000	4197	EDCF Inv. 117015 St-25	19.46	Placerville Hardware		
1	239	0	140084	48.29	EDCF06302022	06/30/22	2	8561000	4197	EDCF Inv. 140084 St-23	48.29	Pleasant Valley Ace, Inc.		

FY 21/22

Outside District Claim Form

District: **El Dorado County Fire**

Date: **6/29/2022**

Prepared By: **Kathleen Freeman**

Contact Phone: **530-644-9630 # 104**

147 2021-22 6-29-2022 EDCF Bills

AUDITOR USE ONLY

DEPT: _____

FILE NAME: _____

AUDITED BY: _____

Date: _____

PLEASE INDICATE CHECK DISTRIBUTION METHOD IN THE SPACE BELOW:

US MAIL: _____ Return to District: _____

Call/Email for pickup: _____ 530-644-9630 # _____

Document Total: **\$48,334.48**

BATCH: _____

Entered by: _____

Date: _____

THE ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).

Authorizing signatures: *Paul May*

ALWAYS 1	VENDOR	SUFFIX	Invoice Number (Limit 20)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1	1965	1	10258	595.00	EDCF06292022	6/29/22	2	8561000	4324	EDCF Inv. 10258 DMV Physical/New Hire	595.00	ADM Screening		
1	559	0	2040488	913.03	EDCF06292022	06/29/22	2	8561000	4145	EDCF Inv. 2040488 SCBA Parts	913.03	AllStar Fire Equipment Inc.		
1	11463	0	10153	3600.00	EDCF06292022	06/29/22	2	8561000	6020	EDCF Inv. 10153 SI-28	3600.00	American River Caulking Inc.		
1	241	0	805391113	474.63	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 805391113 Acct. 200737467 SI-25	474.63	Amerigas, Inc.		
1	3200	0	98387	16.09	EDCF06292022	06/29/22	2	8561000	4022	EDCF Inv. 98387 Name Tag - Duncan	16.09	Arnolds For Awards, Inc.		
1	3200	0	92584	17.70	EDCF06292022	06/29/22	2	8561000	4021	EDCF Inv. 92584 FATS Tags	17.70	Arnolds For Awards, Inc.		
1	3200	0	92357-1	21.00	EDCF06292022	06/29/22	2	8561000	4021	EDCF Inv. 92357-1 FATS Tags	21.00	Arnolds For Awards, Inc.		
1	3200	0	92357-2	33.70	EDCF06292022	06/29/22	2	8561000	4022	EDCF Inv. 92357-2 Name Tags	33.70	Arnolds For Awards, Inc.		
1	2712	0	96523	20.37	EDCF06292022	06/29/22	2	8561000	4162	EDCF Inv. 96523	20.37	Camino Power Tool		
1	2712	0	97628	38.71	EDCF06292022	06/29/22	2	8561000	4145	EDCF Inv. 97628 Chainsaw Parts	38.71	Camino Power Tool		
1	544	0	124384	551.17	EDCF06292022	06/29/22	2	8561000	4162	EDCF Inv. 124384 Headlight	551.17	Cascade Fire Equipment Co		
1	1491	0	06122022-021	86.78	EDCF06292022	06/29/22	2	8561000	4040	EDCF Inv. 06122022-021 Acct. 8155600520004352	86.78	Comcast		
1	1491	0	006132022-02	245.69	EDCF06292022	06/29/22	2	8561000	4040	EDCF Inv. 006132022-02 Acct. 8155600510102943	245.69	Comcast		
1	3429	1	3013	2547.15	EDCF06292022	06/29/22	2	8561000	6020	EDCF Inv. 3013 SI-21	2547.15	Dawson's Floor Fashions		
1	46	0	06212022-01	129.53	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06212022-01 Acct. 118458-001 SI-21	129.53	El Dorado Irrigation District		
1	46	0	06152022-01	74.92	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-01 Acct. 036236-001 SI-18	74.92	El Dorado Irrigation District		
1	46	0	06152022-02	74.92	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-02 Acct. 009878-001 SI-15	74.92	El Dorado Irrigation District		
1	46	0	06152022-03	123.73	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-03 Acct. 006352-001 SI-17	123.73	El Dorado Irrigation District		
1	2654	0	017225/1	17.92	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 017225/1 SI-28	17.92	Gold Country Ace Hardware and Hobbies		
1	3460	0	31786338	1347.56	EDCF06292022	06/29/22	2	8561000	4420	EDCF Inv. 31786338 Copy Machine Lease	1347.56	GreatAmerica Financial Services Corp		
1	9448	0	2206007	180.00	EDCF06292022	06/29/22	2	8561000	4300	EDCF Inv. 2206007 BudAdmin FY Addition	180.00	Infodotlix		
1	24	0	14530	262.00	EDCF06292022	06/29/22	2	8561000	4100	EDCF Inv. 14530 OES Engine	262.00	ISU / Alwood Insurance Services		

Authorizing signatures:

1	4984	1	1218648	407.82	EDCF06292022	06/29/22	2	8561000	4500	EDCF Inv. 1218648 St-25	407.82	Life-Assist
1	4984	1	1220354	5.15	EDCF06292022	06/29/22	2	8561000	4500	EDCF Inv. 1220354 St-72	5.15	Life-Assist
1	4984	1	1217579	111.11	EDCF06292022	06/29/22	2	8561000	4500	EDCF Inv. 1217579 St-72	111.11	Life-Assist
1	4984	1	1217006	318.78	EDCF06292022	06/29/22	2	8561000	4500	EDCF Inv. 1217006 St-17	318.78	Life-Assist
1	514	0	INV607581	199.16	EDCF06292022	06/29/22	2	8561000	4022	EDCF Inv. INV607581 - Nomex Pants	199.16	L.N. Curtis & Sons, Inc.
1	514	0	INV604656	14901.30	EDCF06292022	06/29/22	2	8561000	4022	EDCF Inv. INV604656 - Nomex Pants	14901.30	L.N. Curtis & Sons, Inc.
1	514	0	INV606432	148.50	EDCF06292022	06/29/22	2	8561000	4162	EDCF Inv. INV606432 E-25	148.50	L.N. Curtis & Sons, Inc.
1	62	0	06162022-01	9.58	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06162022-01 Acct. 5707449531-8 St-19	9.58	Pacific Gas & Electric, Inc.
1	62	0	06152022-04	668.28	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-04 Acct. 9160165239-8 St-25	668.28	Pacific Gas & Electric, Inc.
1	62	0	06162022-02	620.38	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06162022-02 Acct. 7501192011-5 Gold	620.38	Pacific Gas & Electric, Inc.
1	62	0	06162022-03	598.69	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06162022-03 Acct. 4198633477-3 St-17	598.69	Pacific Gas & Electric, Inc.
1	62	0	06152022-05	634.69	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-05 Acct. 24638047959-0 St-2	634.69	Pacific Gas & Electric, Inc.
1	62	0	06152022-06	840.08	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06152022-06 Acct. 0294455775-6 St-72	840.08	Pacific Gas & Electric, Inc.
1	62	0	06072022-02	105.91	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06072022-02 Acct. 3752486564-1 St-23	105.91	Pacific Gas & Electric, Inc.
1	62	0	06082022-01	46.75	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06082022-01 Acct. 9575072740-6 St-23	46.75	Pacific Gas & Electric, Inc.
1	62	0	06102022-01	21.00	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06102022-01 Acct. 6720534296-6 St-19	21.00	Pacific Gas & Electric, Inc.
1	62	0	06102022-02	10.51	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06102022-02 Acct. 8642934189-3 St-18	10.51	Pacific Gas & Electric, Inc.
1	62	0	06102022-03	541.23	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06102022-03 Acct. 9361049424-2 St-19	541.23	Pacific Gas & Electric, Inc.
1	62	0	06222022-01	1314.33	EDCF06292022	06/29/22	2	8561000	4700	EDCF Inv. 06222022-01 Acct.. 9563044298-6 St-26	1314.33	Pacific Gas & Electric, Inc.
1	2340	0	62212	675.00	EDCF06292022	06/29/22	2	8561000	4300	EDCF Inv. 62212 Consulting Services	675.00	Patrick Clark Consulting
1	3193	0	117004	36.03	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 117004 St-25	36.03	Placerville Hardware
1	3193	0	117008	60.17	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 117008 St-25	60.17	Placerville Hardware
1	239	0	140023/1	28.94	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 140023/1 St-19	28.94	Pleasant Valley Ace, Inc.
1	239	0	139981/1	9.08	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 139981/1 St-19	9.08	Pleasant Valley Ace, Inc.
1	239	0	139884/1	14.47	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 139884/1 St-19	14.47	Pleasant Valley Ace, Inc.
1	239	0	139892/1	27.01	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 139892/1 St-19	27.01	Pleasant Valley Ace, Inc.
1	239	0	139554/1	49.77	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 139554/1 St-19	49.77	Pleasant Valley Ace, Inc.
1	239	0	140036/1	9.62	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. 140036/1 St-19	9.62	Pleasant Valley Ace, Inc.
1	1553	0	A1029796	7.68	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1029796 St-17	7.68	Pollock Pines True Value
1	1553	0	A1031420	62.18	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1031420 St-17	62.18	Pollock Pines True Value
1	1553	0	A1031855	14.76	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1031855 St-17	14.76	Pollock Pines True Value
1	1553	0	A1032178	18.72	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1032178 St-17	18.72	Pollock Pines True Value
1	1553	0	A1032218	99.52	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1032218 St-17	99.52	Pollock Pines True Value
1	1553	0	A1032528	-38.59	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1032528 St-17	-38.59	Pollock Pines True Value
1	1553	0	A1032913	11.79	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. A1032913 St-17	11.79	Pollock Pines True Value
1	3337	0	18613	888.03	EDCF06292022	06/29/22	2	8561000	4300	EDCF Inv. 18613 St-48	888.03	RTS IT
1	1543	0	SB10111	4558.00	EDCF06292022	06/29/22	2	8561000	4300	EDCF Inv. SB10111 FY 21/22 Tax Administration	4558.00	SCI Consulting Group
1	922	1	3751841-0	37.54	EDCF06292022	06/29/22	2	8561000	4300	EDCF Inv. 3751841-0 Business Cards - Stirling	37.54	Sierra Gold Graphics
1	401	0	2386	3999.64	EDCF06292022	06/29/22	2	8561000	4142	EDCF Inv. 2386 Radio Equipment	3999.64	Silverado Avionics, Inc.
1	3375	0	SC2296	7.00	EDCF06292022	06/29/22	2	8561000	4197	EDCF Inv. SC2296	7.00	Standard Plumbing Supply
1	8169	0	06242022-01	300.00	EDCF06292022	06/29/22	2	8561000	4617	EDCF Inv. 06242022-01 HAZMAT IC Reimburseme	300.00	Thomas, Nicholas
1	10402	1	158247386-0	1474.40	EDCF06292022	06/29/22	2	8561000	4040	EDCF Inv. 158247386-0 Fiber	1474.40	TPX
1	10402	1	158247386-0	1474.42	EDCF06292022	06/29/22	2	8561000	4040	EDCF Inv. 158247386-0 Fiber	1474.42	TPX
1	484	0	1365063	147.63	EDCF06292022	06/29/22	2	8561000	4180	EDCF Inv. 1365063 St-23	147.63	True Value Hardware - Missouri


FY 22/23

Outside District Claim Form

District:	El Dorado County Fire	AUDITOR USE ONLY	
Date:	7/20/2022		
Prepared By:	Kathleen Freeman	DEPT:	
Contact Phone:	530-644-9630 # 104	FILE NAME:	
7 2022-23 7-20-2022 EDCF Bills		AUDITED BY:	Date:

PLEASE INDICATE CHECK DISTRIBUTION		PROCESSOR USE ONLY
METHOD IN THE SPACE BELOW:		
US MAIL:	Return to District:	BATCH:
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Document Total:	\$37,411.36	Date:

THE ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).



Authorizing signatures:

ALWAYS 1	VENDOR	SUFFIX	Invoice Number (Limit 20)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1	3235	0	09012022-01	13465.12	EDCF07202022	7/20/22	2	8561000	3040	EDCF Inv. 09012022-01 Retiree Health Sept. 2022	13465.12	AUL Mid America Administrative		
1	41	0	BE005040172-1	5817.81	EDCF07202022	07/20/22	2	8561000	3040	EDCF Inv. BE005040172-1 Dist. Dental July 2022	5817.81	Delta Dental		
1	41	0	BE005040172-2	3653.89	EDCF07202022	07/20/22	2	8561001	3040	EDCF Inv. BE005040172-2 JPA Dental July 2022	3653.89	Delta Dental		
1	41	0	BE005084077-1	6806.66	EDCF07202022	07/20/22	2	8561000	3040	EDCF Inv. BE005084077-1 Dist. Dental Aug. 2022	6806.66	Delta Dental		
1	41	0	BE00584077-2	3227.86	EDCF07202022	07/20/22	2	8561001	3040	EDCF Inv. BE00584077-2 JPA Dental Aug. 2022	3227.86	Delta Dental		
1	4725	00	08012022-02	1007.28	EDCF07202022	07/20/22	2	8561000	3044	EDCF Inv. 08012022-02 Dist. Vision Aug. 2022	1007.28	FDAC EBA		
1	4725	00	08012022-03	205.20	EDCF07202022	07/20/22	2	8561000	4100	EDCF Inv. 08012022-03 Dist. Life Aug. 2022	205.20	FDAC EBA		
1	4725	00	0801222-04	41.60	EDCF07202022	07/20/22	2	8561000	4300	EDCF Inv. 0801222-04 Dist. EAP Aug. 2022	41.60	FDAC EBA		
1	4725	00	08012022-05	408.14	EDCF07202022	07/20/22	2	8561001	3044	EDCF Inv. 08012022-05 JPA Vision Aug. 2022	408.14	FDAC EBA		
1	4725	00	08012022-6	106.40	EDCF07202022	07/20/22	2	8561001	4100	EDCF Inv. 08012022-6 JPA Life Aug. 2022	106.40	FDAC EBA		
1	4725	00	08012022-07	22.40	EDCF07202022	07/20/22	2	8561001	4300	EDCF Inv. 08012022-07 JPA EAP Aug. 2022	22.40	FDAC EBA		
1	5145	0	08012022-08	625.00	EDCF07202022	07/20/22	2	8561000	4536	EDCF Inv. 08012022-08 Retiree Opt-Out Aug. 2022	625.00	Campbell, Mike		
1	7828	0	08012022-09	625.00	EDCF07202022	07/20/22	2	8561000	4536	EDCF Inv. 08012022-09 Retiree Opt-Out Aug. 2022	625.00	Lewis, Scott		
1	6306	0	08012022-10	625.00	EDCF07202022	07/20/22	2	8561000	4536	EDCF Inv. 08012022-10 Retiree Opt-Out Aug. 2022	625.00	Littlejohn, Alan		
1	1633	0	08012022-11	625.00	EDCF07202022	07/20/22	2	8561000	4536	EDCF Inv. 08012022-11 Retiree Opt-Out Aug. 2022	625.00	Hunt, Bradley		
1	9094	0	08012022-12	149.00	EDCF07202022	07/20/22	2	8561000	4536	EDCF Inv. 08012022-12 Retiree Opt-Out Aug. 2022	149.00	Steele, Phillip		

FY 22/23

Outside District Claim Form

District: **El Dorado County Fire**

Date: **7/22/2022**

Prepared By: **Kathleen Freeman**

Contact Phone: **530-644-9630 # 104**

9 2022-23 7-22-2022 EDCF Bills

AUDITOR USE ONLY

DEPT: _____

FILE NAME: _____

AUDITED BY: _____

Date: _____

PLEASE INDICATE CHECK DISTRIBUTION METHOD IN THE SPACE BELOW:

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BATCH: _____

Entered by: _____

Date: _____

THE ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).

Authorizing signatures: 

ALWAYS 1	VENDOR	SUFFIX	Invoice Number (Limit 20)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1	2580	0	D474696	5045.24	EDCF07222022	7/22/22	2	8561000	3040	EDCF Inv. D474696 July 2022 Premiums	5045.24	American Fidelity		
1	3200	0	98522	16.09	EDCF07222022	07/22/22	2	8561000	4022	EDCF Inv. 98522 Name Tag - Stirling	16.09	Arnolds For Awards, Inc.		
1	4186	0	07092022-01	440.00	EDCF07222022	07/22/22	2	8561000	4617	EDCF Inv. 07092022-01 Company Officer 2D Reim	440.00	Baker, Daron		
1	39	0	12496	85.00	EDCF07222022	07/22/22	2	8561000	4220	EDCF Inv. 12496 Membership Dues	85.00	Calif State Firefighters Association		
1	2712	0	98790	38.71	EDCF07222022	07/22/22	2	8561000	4140	EDCF Inv. 98790	38.71	Camino Power Tool		
1	2712	0	97832	22.35	EDCF07222022	07/22/22	2	8561000	4140	EDCF Inv. 97832	22.35	Camino Power Tool		
1	544	0	124809	9022.09	EDCF07222022	07/22/22	2	8561000	6040	EDCF Inv. 124809 PPE	9022.09	Cascade Fire Equipment Co		
1	1491	0	06252022-01	146.19	EDCF07222022	07/22/22	2	8561000	4040	EDCF Inv. 06252022-01 Acct.8155600510591228	146.19	Comcast		
1	1491	0	07122022-02	86.97	EDCF07222022	07/22/22	2	8561000	4040	EDCF Inv. 07122022-02 Acct.8155600520004352	86.97	Comcast		
1	1491	0	07012022-21	150.94	EDCF07222022	07/22/22	2	8561000	4040	EDCF Inv. 07012022-21 Acct.8155600510591210	150.94	Comcast		
1	1491	0	07132022-01	255.19	EDCF07222022	07/22/22	2	8561000	4040	EDCF Inv. 07132022-01 Acct.8155600510102943	255.19	Comcast		
1	8690	0	Y5-73672-1	10099.20	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. Y5-73672-1 Labor E-25	10099.20	Cummins West		
1	8690	0	Y5-73672-2	7673.33	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. Y5-73672-2 Parts E-25	7673.33	Cummins West		
1	21	0	17431128U030	190.60	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 17431128U030 Acct. 4030-300214 St-23	190.60	El Dorado Disposal		
1	21	0	174311327U030	127.07	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174311327U030 Acct. 4030-300213 St-1	127.07	El Dorado Disposal		
1	21	0	174311306U030	190.60	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174311306U030 Acct. 4030-300305	190.60	El Dorado Disposal		
1	21	0	174310963U030	220.69	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174310963U030 Acct. 4030-500428 St-2	220.69	El Dorado Disposal		
1	21	0	174310792U030	223.29	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174310792U030 Acct. 4030-30039868	223.29	El Dorado Disposal		
1	21	0	174312183U030	139.47	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174312183U030 Acct. 4030-6047719	139.47	El Dorado Disposal		
1	21	0	174312095U030	137.41	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174312095U030 Acct. 4030-6062081 St	137.41	El Dorado Disposal		
1	21	0	174312037U030	137.41	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174312037U030 Acct. 4030-6062262 Gd	137.41	El Dorado Disposal		
1	21	0	174311506U030	75.00	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174311506U030 Acct. 4030-30029124	75.00	El Dorado Disposal		

Authorizing signatures:

1	21	0	174311307U030	220.04	EDCF07222022	07/22/22	2	8561000	4085	EDCF Inv. 174311307U030 Acct. 4030-300306-001	220.04	El Dorado Disposal
1	46	0	07072022-01	134.82	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07072022-01 Acct. 053692-001 Gold Hi	134.82	El Dorado Irrigation District
1	103	0	0731/2022-01	324.40	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 0731/2022-01 Acct. 060-2920-001 St-72	324.40	Georgetown Divide Public Utility District
1	103	0	07312022-02	105.23	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07312022-02 Acct. 060-1030-001 St73	105.23	Georgetown Divide Public Utility District
1	2654	0	017393/1	21.59	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 017393/1 St-28	21.59	Gold Country Ace Hardware and Hobbies
1	4984	1	123624	126.96	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 123624 St-19	126.96	Life Assist
1	2654	0	017319/1	22.14	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 017319/1 St-28	22.14	Gold Country Ace Hardware and Hobbies
1	3434	0	C1034703	622.80	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. C1034703 Fender	622.80	Golden State Emergency Vehicle Service
1	3460	0	31968561	978.78	EDCF07222022	07/22/22	2	8561000	4420	EDCF Inv. 31968561 Copy Machine Lease	978.78	GreatAmerica Financial Services Corp
1	822	1	649575	341.14	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 649575 St-19	341.14	JS West
1	822	1	239479	403.03	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 239479 St-72	403.03	JS West
1	874	0	06092022-04	2259.00	EDCF07222022	07/22/22	2	8561000	4324	EDCF Inv. 06092022-04 New Hire Medical	2259.00	Kaiser Foundation Health Plan, Inc.
1	4984	1	1230451	202.30	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1230451 St-28	202.30	Life Assist
1	4984	1	1225347	19.67	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1225347 St-17	19.67	Life Assist
1	4984	1	1229310	19.67	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1229310 St-17	19.67	Life Assist
1	4984	1	1229393	84.18	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1229393 St-17	84.18	Life Assist
1	4984	1	1226212	239.08	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1226212 St-28	239.08	Life Assist
1	4984	1	1227079	353.77	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1227079 St-72	353.77	Life Assist
1	4984	1	1223017	678.55	EDCF07222022	07/22/22	2	8561000	4500	EDCF Inv. 1223017 St-72	678.55	Life Assist
1	4974	0	10605	135.00	EDCF07222022	07/22/22	2	8561000	4400	EDCF Inv. 10605 Public Notice	135.00	Mountain Democrat
1	62	0	07192022-01	793.12	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07192022-01 Acct. 7501192011-5 Gold	793.12	Pacific Gas & Electric, Inc.
1	62	0	07192022-02	9.59	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07192022-02 Acct. 5707449531-8 St-19	9.59	Pacific Gas & Electric, Inc.
1	62	0	07182022-01	776.96	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07182022-01 Acct. 4198633477-3 St-17	776.96	Pacific Gas & Electric, Inc.
1	62	0	07072022-02	99.57	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07072022-02 Acct. 3752486564-1 St-23	99.57	Pacific Gas & Electric, Inc.
1	62	0	07122022-03	21.16	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07122022-03 Acct. 6720534296-6 St-74	21.16	Pacific Gas & Electric, Inc.
1	62	0	07122022-04	635.52	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07122022-04 Acct. 9361049424-2 St-19	635.52	Pacific Gas & Electric, Inc.
1	62	0	07122022-05	9.86	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07122022-05 Acct. 8642934189-3 St-18	9.86	Pacific Gas & Electric, Inc.
1	62	0	07072022-03	44.30	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07072022-03 Acct. 9575072740-6 St-23	44.30	Pacific Gas & Electric, Inc.
1	62	0	07152022-01	1124.67	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07152022-01 Acct. 9160165239-8 St-25	1124.67	Pacific Gas & Electric, Inc.
1	62	0	07152022-02	1032.08	EDCF07222022	07/22/22	2	8561000	4700	EDCF Inv. 07152022-02 Acct. 2463807959-0 St-21	1032.08	Pacific Gas & Electric, Inc.
1	239	0	140326/1	8.07	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 07152022-03 Acct. 0294455775-6 St-72	1232.97	Pacific Gas & Electric, Inc.
1	239	0	140182/1	17.72	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 140326/1 St-19	8.07	Pleasant Valley Ace, Inc.
1	239	0	140183/1	4.82	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 140182/1 St-19	17.72	Pleasant Valley Ace, Inc.
1	239	0	140170/1	46.45	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 140183/1 St-19	4.82	Pleasant Valley Ace, Inc.
1	239	0	140168/1	14.07	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 140170/1 St-19	46.45	Pleasant Valley Ace, Inc.
1	239	0	140084/1	48.29	EDCF07222022	07/22/22	2	8561000	4197	EDCF Inv. 140168/1 St-19	14.07	Pleasant Valley Ace, Inc.
1	2317	0	0175184-IN	52.00	EDCF07222022	07/22/22	2	8561000	4324	EDCF Inv. 140084/1 St-19	48.29	Pleasant Valley Ace, Inc.
1	8984	0	07012022-22	1392.00	EDCF07222022	07/22/22	2	8561000	3042	EDCF Inv. 0175184-IN Maleske	52.00	Preferred Alliance, Inc.
1	8984	0	07012022-23	696.00	EDCF07222022	07/22/22	2	8561000	3042	EDCF Inv. 07012022-22 Dist. LTD July 2022	1392.00	Standard Insurance
1	8984	0	08012022-13	1392.00	EDCF07222022	07/22/22	2	8561001	3042	EDCF Inv. 07012022-23 JPA LTD July 2022	696.00	Standard Insurance
1	8984	0	08012022-14	696.00	EDCF07222022	07/22/22	2	8561001	3042	EDCF Inv. 08012022-13 Dist. LTD Aug. 2022	1392.00	Standard Insurance
1	922	0	3760630-1	101.67	EDCF07222022	07/22/22	2	8561000	4260	EDCF Inv. 08012022-14 JPA LTD Aug. 2022	696.00	Standard Insurance
										EDCF Inv. 3760630-1 Office Supplies	101.67	Sierra Office Supply & Printing

FY 22/23

Outside District Claim Form

District:	El Dorado County Fire	AUDITOR USE ONLY	PLEASE INDICATE CHECK DISTRIBUTION
Date:	7/22/2022		METHOD IN THE SPACE BELOW:
Prepared By:	Kathleen Freeman	DEPT: _____	US MAIL: _____ Return to District: _____
Contact Phone:	530-644-9630 # 104	FILE NAME: _____	Call/Email for pickup: _____ 530-644-9630 # 104
	8 2022-23 7-22-2022 EDCF Bills	AUDITED BY: _____	Document Total: \$20,680.66
			BATCH: _____
			Entered by: _____
			Date: _____

THE ARTICLES FOR SERVICES DESCRIBED BY THE INVOICE(S) ATTACHED AND LISTED BELOW WERE APPROVED AND ARE INCLUDED IN THE DISTRICT BUDGET THAT HAS BEEN ADOPTED BY THE BOARD OF DIRECTORS AND WERE NECESSARY FOR USE BY THE DISTRICT AND HAVE BEEN DELIVERED OR PERFORMED AND THAT NO PRIOR CLAIM HAS BEEN PRESENTED FOR SAID ARTICLES OR SERVICES. I FURTHER CERTIFY I AM AUTHORIZED BY THE BOARD OF DIRECTORS TO APPROVE PAYMENT REQUESTS TO THE AUDITOR-CONTROLLER FOR THE ATTACHED INVOICE(S).

Authorizing signatures:

Paul Meyer

ALWAYS 1	VENDOR	SUFFIX	Invoice Number (Limit 20)	AMOUNT	FILE NAME	DATE	ALWAYS 2	ORG	OBJECT	DESCRIPTION (LIMIT 50 CHARACTERS)	AMOUNT	VENDOR NAME	SEPARATE CHECK	DOC:
1	10523	1	20999-1	1112.50	EDCF07222022	7/22/22	2	8561000	4160	EDCF Inv. 20999-1 Labor E-19	1112.50	HFW Enterprises, LLC		
1	10523	1	20999-2	833.99	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20999-2 Parts E-19	833.99	HFW Enterprises, LLC		
1	10523	1	20963-1	260.00	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20963-1 Labor	260.00	HFW Enterprises, LLC		
1	10523	1	20963-2	42.40	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20963-2 Parts	42.40	HFW Enterprises, LLC		
1	10523	1	20972-1	2925.00	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20972-1 Labor E-19	2925.00	HFW Enterprises, LLC		
1	10523	1	20972-2	2387.52	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20972-2 Parts E-19	2387.52	HFW Enterprises, LLC		
1	10523	1	20973-1	2517.50	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20973-1 Labor U-28	2517.50	HFW Enterprises, LLC		
1	10523	1	20973-2	588.38	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20973-2 Parts U-28	588.38	HFW Enterprises, LLC		
1	10523	1	20998-1	1882.07	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20998-1 Labor E-328	1882.07	HFW Enterprises, LLC		
1	10523	1	20998-2	3774.95	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20998-2 Parts E-328	3774.95	HFW Enterprises, LLC		
1	10523	1	20990-1	1235.00	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20990-1 Labor E-28	1235.00	HFW Enterprises, LLC		
1	10523	1	20990-2	2643.36	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20990-2 Parts E-28	2643.36	HFW Enterprises, LLC		
1	10523	1	20792-1	65.00	EDCF07222022	07/22/22	2	8561000	4160	EDCF Inv. 20792-1 Labor E-74	65.00	HFW Enterprises, LLC		
1	10523	1	20792-2	412.99	EDCF07222022	07/22/22	2	8561000	4162	EDCF Inv. 20792-2 Parts E-74	412.99	HFW Enterprises, LLC		

**EL DORADO COUNTY
AUDITOR-CONTROLLER
ELECTRONIC FUNDS TRANSFER
MEMORANDUM**

TO: K.E. Coleman, Treasurer/Tax Collector

FROM: Department/District: El Dorado County Fire District

Authorized Signature: 

Joe Harn, Auditor-Controller

Authorized Signature: _____

DATE:

RE: AUTHORIZATION TO ELECTRONICALLY TRANSFER FUNDS

This is my official warrant to pay via electronic transfer on 7/26/2022, as described below:

METHOD OF TRANSFER: ACH WIRE TRANSFER

AMOUNT: \$126,550.57

BANK NAME: Union Bank

BANK BRANCH: 400 California Street

San Francisco, CA 94104

ABA NUMBER/ROUTING NUMBER: 1220200496

BANK ACCOUNT NUMBER: 0050206971

BANK ACCOUNT/PAYEE NAME: CalPERS Fiscal Services Division

PAYEE INVOICE NUMBER (if any): 100000016871821

FENIX DOCUMENT NUMBER: _____

I hereby certify that the above ACH/Wire transfer instructions and account information has been confirmed by me.

Kathleen Freeman
Print name of employee responsible
for accuracy of wire instructions

7/26/22 
Date Signature

Treasury Use Only

PAYMENT # _____ DATE _____ TIME _____ INITIAL _____

ACH/WIRE TRANSFER REQUEST

AUDITOR'S USE ONLY

BATCH # _____

CASH ACCT 99120

DOC # _____

CK/WIRE # _____

ACTION DATE _____

DEPARTMENT DESCRIPTION: _____

ENTERED BY _____

DATE _____

APPROVED BY _____

DATE _____

RECESSING _____

APP JOURNAL # _____

DATE _____

TJ JOURNAL # _____

DATE _____

NOTES: _____

PREPARED BY: Kathleen Freeman
PRINT NAME

SIGNATURE AND DATE *K. Freeman* 7/20/22
REQUIRED

DEPARTMENT NAME El Dorado County Fire District

DEPARTMENT NUMBER 8561
(4 DIGIT NUMBER)

Paul Lohan
PRINT AUTHORIZED NAME

[Signature]
AUTHORIZED SIGNATURE

DEPARTMENT AUTHORIZATION: I HERBY CERTIFY THAT THE DETAILS OF THIS REQUESTED WIRE DISBURSEMENT ALONG WITH THE ATTACHED SUPPORTING DOCUMENTS ARE: WITHIN MY AUTHORITY TO APPROVE; WERE NECESSARY TO CONDUCT COUNTY BUSINESS; ARE ITEMS RECEIVED OR FOR A SERVICE THAT HAS OR WILL BE DELIVERED AS OBLIGATED BY VENDOR; AND THAT NO PRIOR DISBURSEMENT HAS BEEN MADE FOR SAID

VENDOR NAME CalPERS Fiscal Services Division

FENIX VENDOR NUMBER 225 2
SUFFIX

INVOICE NUMBER (20CHARACTERS) 100000016836662

AMOUNT \$126,550.57

ACH AUTO WITHDRAWAL

ACH TRANSFER (ABA/ACCT# REQ)

WIRE TRANSFER (REQUIRES JUSTIFICATION)

REQUESTED TRANSFER DATE 07/26/22

CONFIRMED 48 HRS NOTICE TO TREASURY _____
INITIAL

****WIRE TRANSFER JUSTIFICATION:** District/JPA Health Premiums July 2022

ORG CODE	OBJECT	PROJECT STRING	DESCRIPTION (30 CHARACTERS MAX)	AMOUNT
8561000	3040		Dist. Health August 2022	\$90,978.65
8561001	3040		JPA Health August 2022	\$35,571.92
			TOTAL	\$126,550.57



P.O. Box 942715, Sacramento, CA 94229-2715
 888 CalPERS (or 888-225-7377) | Fax: (800) 959-6545
 TTY: (877) 249-7442
www.calpers.ca.gov

California Public Employees' Retirement System

Tim Cordero
 El Dorado County Fire Protection District
 PO BOX 807
 4040 CARSON ROAD
 CAMINO, CA 95709-0807

Business Unit: 1800
 CalPERS ID: 4388508673
 Statement Date: 07/14/2022

Health Premium Statement - PERS

Receivable ID	Description	Billing Month	Amount
100000016871821	Total Active & Retired Premium: \$176,439.23	08/2022	
	PA Billing Active Premium		\$117,475.32
	PA Billing Employer Share of Retired Premium		\$8,493.00
	Admin Fee for Active: (0.33% of Total Active Premium)		\$387.67
	Admin Fee for Retired: (0.33% of Total Retired Premium)		\$194.58
	Subtotal		\$126,550.57
100000016836662	Previous Payment Due	07/2022	\$124,147.54
	Payment Applied		(\$124,147.54)
	Subtotal		\$0.00

Total Payment Due 08/10/2022: \$126,550.57



Retain this Statement for your records.

Health Premium payments are to be paid in full by the 10th of each month. Payments which are not received in full on or before this date will be assessed interest on the next month's statement (California Code of Regulations §599.515) and may be subject to the delinquency process. Please note that this monthly statement is a demand for payment in accordance with the Public Employees' Medical and Hospital Care Act, and failure to timely remit health premium payments in full by the 10th of each month may result in the termination of health care coverage for your agency pursuant to Government Code §22939 and collection of any outstanding amounts, including, but not limited to, all outstanding health premium payments/contributions, interest, penalties, and the costs of collection, including reasonable legal fees, when necessary to collect the amount due.

Please pay this statement using Electronic Funds Transfer (EFT) debit or Automated Clearing House (ACH) credit method. Please visit my.calpers.ca.gov to schedule a debit EFT payment or call our CalPERS Customer Contact Center at **888 CalPERS** (or **888-225-7377**) for information regarding EFT ACH credit payments. Please allow two banking days prior to the due date for payments to be received at CalPERS on time.

To view the Monthly Employer Billing Roster, please log on to my.calpers.ca.gov and select the Download Roster option that is located within the Billing and Payment Summary section. If discrepancies are discovered when reconciling the Statement to the Roster or the Roster to your internal records, please contact us. The Health Premium Billing should be reconciled on a monthly basis.

If you have questions, please contact the **CalPERS Customer Contact Center** at **888 CalPERS** (or **888-225-7377**).



**EL DORADO COUNTY
AUDITOR-CONTROLLER
ELECTRONIC FUNDS TRANSFER
MEMORANDUM**

TO: K.E. Coleman, Treasurer/Tax Collector

FROM: Department/District: El Dorado County Fire District

Authorized Signature: 

Joe Harn, Auditor-Controller

Authorized Signature: _____

DATE:

RE: AUTHORIZATION TO ELECTRONICALLY TRANSFER FUNDS

This is my official warrant to pay via electronic transfer on 7/14/2022, as described below:

METHOD OF TRANSFER: ACH WIRE TRANSFER

AMOUNT: \$2,435,560.00

BANK NAME: Union Bank

BANK BRANCH: 400 California Street

San Francisco, CA 94104

ABA NUMBER/ROUTING NUMBER: 1220200496

BANK ACCOUNT NUMBER: 0050206971

BANK ACCOUNT/PAYEE NAME: CalPERS Fiscal Services Division

PAYEE INVOICE NUMBER (if any): Multiple – Listed on ACH Transfer Request

FENIX DOCUMENT NUMBER: _____

I hereby certify that the above ACH/Wire transfer instructions and account information has been confirmed by me.

Kathleen Freeman
Print name of employee responsible
for accuracy of wire instructions

7/14/22
Date


Signature

Treasury Use Only

PAYMENT # _____ DATE _____ TIME _____ INITIAL _____

APPROVED _____ RELEASED _____ TIME _____ INITIAL _____

ACH/WIRE TRANSFER REQUEST

AUDITOR'S USE ONLY

BATCH #

CASH ACCT

DOC #

CK/WIRE #

ACTION DATE

HEADER DESCRIPTION:

ENTERED BY

DATE

REVIEWED BY

APPROVED BY

PROCESSING

APP JOURNAL #

DATE

TJ JOURNAL #

DATE

NOTES:

PREPARED BY:
PRINT NAME

SIGNATURE AND DATE
REQUIRED

DEPARTMENT NAME

DEPARTMENT NUMBER
(4 DIGIT NUMBER)

PRINT AUTHORIZED NAME

AUTHORIZED SIGNATURE

DEPARTMENT AUTHORIZATION : I HERBY CERTIFY THAT THE DETAILS OF THIS REQUESTED WIRE DISBURSEMENT ALONG WITH THE ATTACHED SUPPORTING DOCUMENTS ARE: WITHIN MY AUTHORITY TO APPROVE; WERE NECESSARY TO CONDUCT COUNTY BUSINESS; ARE ITEMS RECEIVED OR FOR A SERVICE THAT HAS OR WILL BE DELIVERED AS OBLIGATED BY VENDOR; AND THAT NO PRIOR DISBURSEMENT HAS BEEN MADE FOR SAID

VENDOR NAME

FENIX VENDOR NUMBER
SUFFIX

INVOICE NUMBER (20CHARACTERS)

AMOUNT

ACH AUTO WITHDRAWAL

ACH TRANSFER (ABA/ACCT# REQ)

WIRE TRANSFER (REQUIRES JUSTIFICATION)

REQUESTED TRANSFER DATE

CONFIRMED 48 HRS NOTICE TO TREASURY
INITIAL

****WIRE TRANSFER JUSTIFICATION: FY 2021/2022 UAL**

ORG CODE	OBJECT	PROJECT STRING	DESCRIPTION (30 CHARACTERS MAX)	AMOUNT
8561000	3020		Inv. 100000016477883 Plan ID 23089	\$372.00
8561000	3020		Inv. 100000016477891 Plan ID 25205	\$14,622.00
8561000	3020		Inv. 100000016477874 Plan ID 9984	\$5,419.00
8561000	3020		Inv. 100000016477864 Plan ID 9983	\$2,062,989.00
8561000	3020		Inv. 100000016477852 Plan ID 1652	\$62,490.00
8561000	3020		Inv. 100000016477900 Plan ID 26166	\$136.00
TOTAL				\$2,146,028.00



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California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 10000016853186
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 26166.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$13.67</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$159.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$13.67	July 31, 2022	
Amount	Due Date				
\$13.67	July 31, 2022				
Total Due	\$13.67				



Please pay this statement using Electronic Funds Transfer (EFT) debit or Automated Clearing House (ACH) credit method. Please visit www.mycalpers.ca.gov to schedule a debit EFT payment or call our CalPERS Customer Contact Center at **888 CalPERS** (or **888-225-7377**) for information regarding EFT ACH credit payments. Please allow two banking days prior to the due date for payments to be received at CalPERS on time.

California Public Employees' Retirement System
www.calpers.ca.gov

myCalPERS 2263





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 TTY: (877) 249-7442
www.calpers.ca.gov

California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 100000016853166
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 23089.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table border="0"> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$31.83</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$369.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$31.83	July 31, 2022	
Amount	Due Date				
\$31.83	July 31, 2022				
Total Due	\$31.83				



Please pay this statement using Electronic Funds Transfer (EFT) debit or Automated Clearing House (ACH) credit method. Please visit www.mycalpers.ca.gov to schedule a debit EFT payment or call our CalPERS Customer Contact Center at **888 CalPERS** (or **888-225-7377**) for information regarding EFT ACH credit payments. Please allow two banking days prior to the due date for payments to be received at CalPERS on time.

California Public Employees' Retirement System
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California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 100000016853155
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 9984.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$702.92</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$8,154.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$702.92	July 31, 2022	
Amount	Due Date				
\$702.92	July 31, 2022				
Total Due	\$702.92				



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California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 100000016853145
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 9983.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$202,052.58</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$2,343,979.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$202,052.58	July 31, 2022	
Amount	Due Date				
\$202,052.58	July 31, 2022				
Total Due	\$202,052.58				



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California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 100000016853130
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 1652.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table border="0"> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$5,677.58</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$65,865.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$5,677.58	July 31, 2022	
Amount	Due Date				
\$5,677.58	July 31, 2022				
Total Due	\$5,677.58				



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California Public Employees' Retirement System

July 01, 2022

Kathleen T Freeman
 El Dorado County Fire Protection District
 P.O. BOX 807
 CAMINO, CA 95709

Business Unit: 1900
 CalPERS ID: 4388508673
 Invoice Number: 100000016853176
 Invoice Date: July 01, 2022
 Payment Due Date: July 31, 2022

Description	Amount				
<p>Annual Unfunded Accrued Liability as of the June 30, 2020 Actuarial Valuation for Rate Plan Identifier 25205.</p> <p>The total minimum required employer contribution is the sum of the Plan's Employer Normal Cost Rate (expressed as a percentage of payroll) plus the Employer Unfunded Accrued Liability Contribution Amount.</p> <p>Your agency's monthly amount due toward the Unfunded Accrued Liability is:</p> <table> <tr> <td>Amount</td> <td>Due Date</td> </tr> <tr> <td>\$1,468.33</td> <td>July 31, 2022</td> </tr> </table> <p>If you would like to prepay the entire Annual Payment toward your Plan's Unfunded Accrued Liability, you can submit the Annual Lump Sum Prepayment amount of \$17,034.00 to the invoice number above by July 31, 2022 instead of the monthly amount listed.</p> <p>Please refer to the June 30, 2020 Actuarial Valuation report for the details of this calculation. Reports are available at CalPERS On-Line or by visiting www.mycalpers.ca.gov</p> <p>Unfunded Accrued Liability contributions are to be paid in full by the payment due date each month. Payments that are not received in full on or before this date will be assessed interest on the total outstanding balance due (Public Employees' Retirement Law § 20572 (b)). Please note that this monthly statement is a demand for payment in accordance with Public Employees' Retirement Law § 20572 (a).</p> <p>For questions concerning your invoice, please call our CalPERS Customer Contact Center at 888 CalPERS (or 888-225-7377) and ask to be referred to the Financial Office.</p>	Amount	Due Date	\$1,468.33	July 31, 2022	
Amount	Due Date				
\$1,468.33	July 31, 2022				
Total Due	\$1,468.33				



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TOR / CONTROLLER'S USE	
JOURNAL #	
DATE	
CODE BY	
OVER \$10,000 REVIEWED BY	

JOURNAL ENTRY

Kathleen Feeman 644-9630

JOURNAL ENTRY PREPARED BY: AND PHONE NUMBER (REQUIRED)

[Signature]

DEPARTMENT AUTHORIZATION

TO BE COMPLETED BY THE DEPARTMENT	
DOCUMENT TOTAL	1,200,000.0
NUMBER OF LINES	
TRANSACTION CODE TOTAL *	81
DATE	08/08/22

A JOURNAL ENTRY MUST BE AT LEAST TWO LINES, NOT EXCEED TWENTY SIX LINES, AND USE AN "ODD AND EVEN" NUMBERED TRANSACTION CODE. TRUST FUND TRANSACTIONS MUST USE A 7 DIGIT INDEX CODE.
 REVENUE SUB OBJECTS ARE: 0100 THRU 2100. EXPENDITURE SUB OBJECTS ARE: 3000 THRU 9011. THE FOLLOWING TRANSACTION CODES DO NOT ALLOW GENERAL LEDGER ENTRIES.

* 401 = DECREASE CASH IN A TRUST FUND * 411 = DECREASE IN REVENUE * 431 = INCREASE EXPENDITURES
 * 402 = INCREASE CASH IN A TRUST FUND * 412 = INCREASE IN REVENUE * 432 = DECREASE EXPENDITURES

S F X	TRANS CODE NO. *	(R)	INDEX CODE NUMBER	SUB OBJECT NUMBER	USER CODE NUMBER	AMOUNT	GENERAL LEDGER	DESCRIPTION (50 CHARACTERS MAX.)
1	401		85610010			600,000.00		Movement of Development Impact Fee Funds to Purchase Ladder Truck
2	412		8561000	6040		600,000.00		Movement of Development Impact Fee Funds to Purchase Ladder Truck
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								

DETAILED DESCRIPTION Board of Supervisors approved movement of development impact fee's to cover purchase of ladder truck

FY 21/22

JOURNAL ENTRY

FOR / CONTROLLER'S USE	
JOURNAL #	
DATE	
CODE BY	
OVER \$10,000 REVIEWED BY	

Kathleen Feeman 644-9630

JOURNAL ENTRY PREPARED BY: AND PHONE NUMBER (REQUIRED)

[Signature]
DEPARTMENT AUTHORIZATION

TO BE COMPLETED BY THE DEPARTMENT	
DOCUMENT TOTAL	47,822.
NUMBER OF LINES	
TRANSACTION CODE TOTAL *	166
DATE	07/28/22

A JOURNAL ENTRY MUST BE AT LEAST TWO LINES, NOT EXCEED TWENTY SIX LINES, AND USE AN "ODD AND EVEN" NUMBERED TRANSACTION CODE. TRUST FUND TRANSACTIONS MUST USE A 7 DIGIT INDEX CODE.
 REVENUE SUB OBJECTS ARE: 0100 THRU 2100. EXPENDITURE SUB OBJECTS ARE: 3000 THRU 9011. THE FOLLOWING TRANSACTION CODES DO NOT ALLOW GENERAL LEDGER ENTRIES.
 * 401 = DECREASE CASH IN A TRUST FUND * 411 = DECREASE IN REVENUE * 431 = INCREASE EXPENDITURES
 * 402 = INCREASE CASH IN A TRUST FUND * 412 = INCREASE IN REVENUE * 432 = DECREASE EXPENDITURES

S F X	TRANS CODE NO. *	(R)	INDEX CODE NUMBER	SUB OBJECT NUMBER	USER CODE NUMBER	AMOUNT	GENERAL LEDGER	DESCRIPTION (50 CHARACTERS MAX.)
1	401		8561075			17,791.97		Trsfr Employee Health Ins. Contributions-District PP 2 & 3 - 2022
2	432		8561000		3040	17,791.97		Trsfr Employee Health Ins. Contributions-District PP 2 & 3 - 2022
3	401		8561075			6,119.09		Trsfr Employee Health Ins. Contributions-JPA PP 2 & 3 - 2022
4	432		8561001		3040	6,119.09		Trsfr Employee Health Ins. Contributions-JPA PP 2 & 3 - 2022
5								
6								
7								
8								
9								
10								
11								
12								
13								

DETAILED DESCRIPTION Transferring Employee Health Insurance Contributions from Cafeteria Plan back into both District and JPA Operating Budgets

FY 21/22

JOURNAL ENTRY

AUDIT CONTROLLER'S USE	
JOURNAL #	
DATE	
CODE BY	
OVER \$10,000 REVIEWED BY	

Kathleen Feeman 644-9630

JOURNAL ENTRY PREPARED BY: AND PHONE NUMBER (REQUIRED)

[Signature]

DEPARTMENT AUTHORIZATION

TO BE COMPLETED BY THE DEPARTMENT	
DOCUMENT TOTAL	148,438.28
NUMBER OF LINES	4
TRANSACTION CODE TOTAL *	1666
DATE	08/03/22

A JOURNAL ENTRY MUST BE AT LEAST TWO LINES, NOT EXCEED TWENTY SIX LINES, AND USE AN "ODD AND EVEN" NUMBERED TRANSACTION CODE. TRUST FUND TRANSACTIONS MUST USE A 7 DIGIT INDEX CODE.
 REVENUE SUB OBJECTS ARE: 0100 THRU 2100. EXPENDITURE SUB OBJECTS ARE: 3000 THRU 9011. THE FOLLOWING TRANSACTION CODES DO NOT ALLOW GENERAL LEDGER ENTRIES.

- * 401 = DECREASE CASH IN A TRUST FUND
- * 402 = INCREASE CASH IN A TRUST FUND
- * 411 = DECREASE IN REVENUE
- * 412 = INCREASE IN REVENUE
- * 431 = INCREASE EXPENDITURES
- * 432 = DECREASE EXPENDITURES

S F X	TRANS CODE NO. *	(R)	INDEX CODE NUMBER	SUB OBJECT NUMBER	USER CODE NUMBER	AMOUNT	GENERAL LEDGER	DESCRIPTION (50 CHARACTERS MAX.)
1	401		8561075			57,158.48		Trsfr Employee Health Ins. Contributions-District PP 4-13 - 2022
2	432		8561000		3040	57,158.48		Trsfr Employee Health Ins. Contributions-District PP 4-13 - 2023
3	401		8561075			17,060.66		Trsfr Employee Health Ins. Contributions-JPA PP 4-13 - 2022
4	432		8561001		3040	17,060.66		Trsfr Employee Health Ins. Contributions-JPA PP 4-13 - 2023
5								
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10								
11								
12								
13								

DETAILED DESCRIPTION Transferring Employee Health Insurance Contributions from Cafeteria Plan back into both District and JPA Operating Budgets

AU R / CONTROLLER'S USE	
JOURNAL #	
DATE	
CODE BY	
OVER \$10,000 REVIEWED BY	

FY21/22

JOURNAL ENTRY

Kathleen Feeman 644-9630

JOURNAL ENTRY PREPARED BY: AND PHONE NUMBER (REQUIRED)

[Signature]

DEPARTMENT AUTHORIZATION

TO BE COMPLETED BY THE DEPARTMENT	
DOCUMENT TOTAL	725,050.74
NUMBER OF LINES	2
TRANSACTION CODE TOTAL *	863
DATE	07/11/22

A JOURNAL ENTRY MUST BE AT LEAST TWO LINES, NOT EXCEED TWENTY SIX LINES, AND USE AN "ODD AND EVEN" NUMBERED TRANSACTION CODE. TRUST FUND TRANSACTIONS MUST USE A 7 DIGIT INDEX CODE.
 REVENUE SUB OBJECTS ARE: 0100 THRU 2100. EXPENDITURE SUB OBJECTS ARE: 3000 THRU 9011. THE FOLLOWING TRANSACTION CODES DO NOT ALLOW GENERAL LEDGER ENTRIES.

* 401 = DECREASE CASH IN A TRUST FUND * 411 = DECREASE IN REVENUE * 431 = INCREASE EXPENDITURES
 * 402 = INCREASE CASH IN A TRUST FUND * 412 = INCREASE IN REVENUE * 432 = DECREASE EXPENDITURES

S F X	TRANS CODE NO. *	(R)	INDEX CODE NUMBER	SUB OBJECT NUMBER	USER CODE NUMBER	AMOUNT	GENERAL LEDGER	DESCRIPTION (50 CHARACTERS MAX.)
1	431		8561001			362,525.37		2nd 1/2 JPA UAL FY 2021-2022
2	432		8561000		3020	362,525.37		2nd 1/2 JPA UAL FY 2021-2022
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								

DETAILED DESCRIPTION Transferring JPA UAL Cost

4

EL DORADO COUNTY DEPOSIT PERMIT

FY 21/22

TREASURER HAS RECEIVED A DEPOSIT FROM
EL DORADO COUNTY FIRE PROTECTION DISTRICT
 DEPARTMENT OR AGENCY NAME (including division)

DATE 7/27/2022
 PREPARED BY Kathleen Freeman
 Phone # 530-644-9630
 DEPOSITOR NUMBER 808561

ENTER COIN AND CURRENCY (auto populates Total Deposit section)

Coin and Currency	\$ 0.01	x	0	\$ -	\$ 1.00	x	0	\$ -
	\$ 0.05	x	0	\$ -	\$ 5.00	x	0	\$ -
	\$ 0.10	x	0	\$ -	\$ 10.00	x	0	\$ -
	\$ 0.25	x	0	\$ -	\$ 20.00	x	0	\$ -
	\$ 0.50	x	0	\$ -	\$ 50.00	x	0	\$ -
					\$ 100.00	x	0	\$ -

Total Deposit Section	
COIN	0.00
CURRENCY	0.00
CHECKS	653,883.87
OFF - SITE	0.00
DIRECT	0.00
6/30/2022	

Total Coin: \$ - Total Currency: \$ -

Enter Total Checks: Enter Total Offsites: \$ -

Enter Total Direct Deposit/Wire: \$ -

TOTAL DEPOSIT	653,883.87
----------------------	-------------------

GENERAL LEDGER ACCOUNT LINES (type apostrophe first if there are leading zero):

S F X	ORG	OBJECT NUMBER	PROJECT STRING	DESCRIPTION (30 CHARACTERS MAX.)	AMOUNT
1	8561000	1207	290	2022 Fire Service	653,883.87
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

JOE HARN, C.P.A. AUDITOR / CONTROLLER

C.L. RAFFETY, TREASURER / TAX COLLECTOR

BY [Signature]
 DATE 7-27-22

BY [Signature]
 DATE 7/27/22

IP # 288 346

CERTIFIED INTO THE
 COUNTY TREASURY
 UNDER SECTION GOVT
 CODE 27008

JE NUMBER	2019-__-__
INPUT BY	

DISTRIBUTION: WHITE - AUDITOR / GREEN - TREASURY / YELLOW - DEPARTMENT RECEIPT

Updated 1/1/18



To: Board of Directors
From: Tim Cordero, Fire Chief
Date: August 8, 2022
Subject: Fire Prevention MOU with El Dorado County Building Department

The El Dorado County Fire Protection District Fire Prevention Bureau has worked collaboratively with the El Dorado County Building Department over the years regarding new developments within the District. Recent changes within the fire code, residential sprinkler systems, created dialogue between the fire districts and the County regarding inspection and sign off processes. One item that was discovered during the conversations was a lack of a formal MOU between the fire districts and the County pertaining to roles and responsibilities.

The attached MOU defines the responsibilities of the County and our fire district with regards to inspections and signoffs. There are no changes to the current operations or responsibilities within our Fire Prevention Bureau, the MOU serves to formalize our processes.

Staff would recommend the Board approve the MOU between El Dorado County Building Department and El Dorado County Fire Protection District.

Attachment:

MOU Between EDC and ECDFPD Delegation of Enforcement of Certain Fire and Panic Safety Provisions Found in the 2019 California Building Standards Code

Memorandum of Understanding
Between the
County of El Dorado and the El Dorado County Fire Protection District
Regarding the
Delegation of Enforcement of Certain Fire and Panic Safety Provisions
Found in the 2019 California Building Standards Code

I. Purpose

California Health and Safety Code Section 13146 requires the responsibility for enforcement of building standards adopted by the State Fire Marshal related to fire and panic safety in R-3 dwellings, as described in Section 310.4 of Part 2 of the California Code of Regulations Title 24, to be delegated to either the chief of the fire authority or the chief building official of the county. The purpose of this Memorandum of Understanding (MOU) is to define those responsibilities, as described in El Dorado County Resolution No. 038-2020 of the Board of Supervisors of the County of El Dorado, where they pertain to R-3 dwellings located in the jurisdiction of both the County of El Dorado and the El Dorado County Fire Protection District and known collectively as “parties” to this agreement.

II. Scope

This MOU applies to the delegation of enforcement related to those fire and panic safety provisions for R-3 dwellings as found in California Code of Regulations Title 14, Division 1.5, Chapter 7, Subchapter 2 and Title 24, Parts 1 through 12.

III. Roles and Responsibilities

NOW, THEREFORE, it is hereby agreed by and between the parties as follows:

- a. The COUNTY OF EL DORADO *Chief Building Official*, or their designee, shall be responsible for the enforcement of the following fire and panic safety provisions related to R-3 dwellings located in the jurisdiction of the El Dorado County Fire Protection District.

	T14 Fire Safe ⁱ	T24 CA Building Standards Code ⁱⁱ			
		Part 2 ⁱⁱⁱ	Part 2.5 ^{iv}	Part 5 ^v	Part 9 ^{vi}
Occupancy Classification and Use	NA	302	NA	NA	202
Means of Egress	NA	Ch. 10	R311	NA	Ch. 10
Emergency Escape/Rescue Windows	NA	1030	R310	NA	1030
Dwelling/Garage Fire Separation	NA	406.3	R302.6	NA	NA
Fire Protection of Floors-Walls-Roof	NA	704 /706	R302.11	NA	NA
Draft Stopping/Fireblocking	NA	708.4.2	R302	NA	NA
Exterior Wildfire Exposure Const.	NA	701A	R337	NA	4905
Roof Coverings	NA	1507	R905	NA	4905
Solar Photovoltaic Power Systems	NA	3111	R324	NA	1204
Smoke Alarms/Carbon Monoxide Alarms	NA	907/915	R314	NA	915/1103
Automatic Fire Sprinkler Systems	NA	903.2.8	R313	612	903.2.8
Manufactured Home Automatic Sprinkler System Water Supply ^{viii}	NA	NA	R313.3.5	NA	507

- b. The El Dorado County Fire Protection District *Fire Chief*, or their designee, shall be responsible for the enforcement of the following fire and panic safety provisions related to R-3 dwellings located in the jurisdiction of the El Dorado County Fire Protection District.

Fire & Panic Provision	T14 Fire Safe	T24 CA Building Standards Code			
		Part 2	Part 2.5	Part 5	Part 9
Address Identification	1274	502.1	R319.1	NA	505.1
Fire Apparatus Access Roads	1273	NA	NA	NA	503
Fire Access to Buildings and Roofs	NA	NA	NA	NA	316.4
Fire Protection Water Supplies	1275	NA	NA	NA	507
Liquid Petroleum Gas Systems ^{vii} Underground Tank Installations	NA	NA	NA	Ch. 12	Ch. 61
Vegetation Management Compliance	1276	701A.5	R337.1.5	NA	4906

- c. Both parties agree to enforce all applicable local fire and panic safety codes and ordinances related to R-3 dwellings during the course of their enforcement activities.
- d. Both parties agree that when a new or substantially revised fire and panic safety provision related to R-3 dwellings is identified in writing by either party, or the State Fire Marshal, during the term of this MOU that the parties shall as soon as practical meet and develop interim guidance for the enforcement of that provision until such time that an MOU amendment can be agreed on.
- e. Both parties agree that all appeals of orders, decisions or determinations of provisions found in this MOU shall be made utilizing the applicable Board of Appeal provisions described in California Code of Regulations Title 24, Part 2 or Part 9.

IV. Reporting Requirements

Parties agree to utilize the County of El Dorado's current permit tracking program to record the status of all related plan review/inspections performed as part of a R-3 dwelling construction project.

V. Amendments

This MOU shall be in force upon the signature of authorized representatives from both parties, may be amended by mutual consent of the parties, and shall remain in effect until terminated under Section VII. At the conclusion of the triennial code adoption process for the regulations identified in Section II, the parties anticipate that amendments may be appropriate and, upon such a request by either party, the parties agree to meet and consider any proposed amendments in good faith.

VI. Limits

This MOU pertains to items associated with the enforcement of fire and panic safety provisions for R-3 dwellings as described in the California Building Standards Code only. This MOU does not pertain to all other occupancy types or subjects found in this code.

VII. Termination of MOU

Each party shall have the right to terminate the MOU by giving 60 days written notice in writing to the other party at any time. If the MOU is terminated by either party, steps shall be taken to ensure that the termination does not affect any prior obligation, project, or activity already in progress. Any such notice or any other written notice provided under this MOU shall be in writing and served by depositing the same in the United States Post Office, postage prepaid, and addressed as follows:

FOR COUNTY:

Don Ashton
Chief Administrative Officer or successor
330 Fair Lane
Placerville, CA 95667

with a copy to:

Chief Building Official
County of El Dorado
Planning and Building Department
2850 Fairlane Court
Placerville, CA 95667



To: Board of Directors
From: Tim Cordero, Fire Chief
Date: August 12, 2022
Subject: Shared Services Discussions with Diamond Springs – El Dorado Fire Department

El Dorado County Fire staff had previously engaged in shared services conversations with the Diamond Springs – El Dorado Fire Department. Unfortunately, with some unforeseen challenges within Diamond Springs Fire the shared service discussions were ceased. Recently, Chief Gallagher and I have discussed revisiting the shared services between the districts, as well as, identifying some of the challenges from the last attempt.

In an effort to ensure full transparency, we determined that having both fire boards support the discussions would be beneficial. The Diamond Springs – El Dorado Fire Department Board of Directors unanimously supported the Fire Chief and staff to begin shared service discussions with County Fire at their August 9th board meeting.

Staff would recommend the Board support staff entering into discussions with Diamond Springs regarding shared services.



To: Board of Directors
From: Tim Cordero, Fire Chief
Date: August 10, 2022
Subject: First Responder Fee Billing Contract

As part of the First Responder Fee program, the District will need to enter into a contract with a third-party billing source for fee collection. Staff met virtually with two local vendors for billing services. Both vendors provide a robust service and have been in business for many years.

Staff is recommending the District utilize the services of Wittman Enterprises, LLC as our billing contractor for the first responder fee program. Wittman Enterprises is the currently billing provider for the County ambulance system, which provides some efficiencies in our billing processes. The costs associated with Wittman Enterprises is \$14.00 per processed call, which is slightly lower than the other vendor.

The attached contract has been reviewed by the District's legal Counsel with no additional edits or changes.

Staff would recommend the Board authorize the Fire Chief to sign the attached contract for billing services with Wittman Enterprises, LLC

**AGREEMENT FOR PROFESSIONAL
FIRST RESPONDER BILLING SERVICES
BETWEEN THE EL DORADO COUNTY FIRE PROTECTION DISTRICT
AND WITTMAN ENTERPRISES, LLC**

This Agreement made and entered into this, 1st day of August 2022, by and between El Dorado County Fire Protection District, hereinafter referred to as “PROVIDER,” and Wittman Enterprises, LLC, hereinafter referred to as “CONTRACTOR.”

RECITALS

WHEREAS, PROVIDER desires to use the billing service offered by Wittman Enterprises, LLC an independent contractor, as its agent for the purpose of performing the services described in SECTION 2. SCOPE OF SERVICES.

WHEREAS, concurrently with entering into this Agreement that parties are also entering into the HIPAA Business Associate Agreement (“HIPAA Agreement”), attached hereto and incorporated by this reference as though fully set forth herein; and

WHEREAS, this Agreement is the “UNDERLYING Agreement” as defined by and reference in the HIPAA Agreement.

WITNESSETH: That the parties hereto have mutually covenanted and agreed, and by these presents do covenant and agree with each other as follows:

1. TERM: This Agreement shall commence on the date it is executed by CONTRACTOR and PROVIDER and it shall continue in full force and in effect until it is terminated by either party, giving ninety (90) days advance written notice to the other party.

2. SCOPE OF SERVICES: CONTRACTOR will perform services as set forth detailed in this section. PROVIDER understands, agrees to, and accepts that CONTRACTOR has no responsibility or obligation for determining the accuracy of any claims made to governmental agencies, and that CONTRACTOR relies on PROVIDER for making any such claims on documentation. All services provided pursuant to this Agreement shall also be subject to the terms and conditions of the HIPAA Agreement. To the extent there is any conflict between the provisions of this Agreement and the provisions of the HIPAA Agreement, the HIPAA Agreement will control, as set forth in Section 5.3 of the HIPAA Agreement.

2.1 Private Insurance Billing for First Response Calls

CONTRACTOR to prepare all insurance information request mailings. Correspondence to patients will be on 8 x 11 requests for insurance and will be placed in envelopes, sealed and mailed, postage prepaid. Initial mailing occurs within four (4) days of receipt of first responder tickets from PROVIDER or their transporting agencies. A toll-free 800-like telephone number will be provided to patients. The standard First Responder billing schedule is as follows:

1. Request for information	Immediately
2. Phone call to patient	15 days
3. Request for information	30 days
4. Final request for information	60 days

2.2 Receipts Processing

CONTRACTOR will accept payments in the form of cash, check, money order, cashier's check or credit card. All cash receipts will be deposited and posted within one (1) day of receipt of funds. All funds will be deposited into a PROVIDER-designated bank account. Bank deposit receipts will be sent electronically to PROVIDER. CONTRACTOR shall have no access to the proceeds of the receipts. All funds are under the exclusive control of PROVIDER.

All credit card fees incurred through payment processing will be the responsibility of the PROVIDER. A credit card processor/merchant account will be designated and set up by PROVIDER.

2.3 Refunds

CONTRACTOR will research and verify all overpayments. If a refund is required, CONTRACTOR will submit electronically all supporting documentation to PROVIDER upon completion of research. PROVIDER will issue payment directly to specified party and will send an electronic copy to CONTRACTOR, to be posted to the Patient's account within 24 hours.

2.4 Reports

Monthly, CONTRACTOR will perform accurate month end close procedures that can include, as a minimum, the following reports:

- Monthly Ticket Survey
- Monthly Sales Journal
- Monthly Cash Receipts Journal
- Monthly Receivables Aging
- Management A/R Analysis
- Statistical Reports customized to client needs

Such reports will be available to PROVIDER on the 15th day of the month following the date of service, or ten (10) business days after the final submission of patient care records from the previous month

2.5 Source Documents

CONTRACTOR will retain in electronic format all source documents including attachments for seven (7) years from the date of the reported incident. When service contracted is terminated, all source documents are returned to PROVIDER in an electronic format at PROVIDER's expense.

3. COMPENSATION AND PAYMENT: CONTRACTOR will provide the billing services as stated for a fee as outlined in 3.1. CONTRACTOR will invoice Provider at the end of each month. Invoices are payable upon receipt and shall be deemed late if not received by CONTRACTOR within thirty (30) calendar days of the invoice date.

3.1 Fees

A. First Responder Billing Services \$14.00 per processed incident

4. FINANCE CHARGE: Contractor invoices unpaid by more than forty-five (45) days are subject to a monthly interest charge of 1 1/2% unless in dispute.

5. AGENCY RELATIONSHIP: CONTRACTOR is an independent billing service contractor and PROVIDER specifically designates CONTRACTOR as its agent for the purpose of performing the services described in Section 11 of this Agreement.

5.1 Liaison: PROVIDER shall assign a liaison for conference and communication of any matters subject to the services provided by the contract.

5.2 Coordination of Services: The CONTRACTOR and PROVIDER mutually agree that person(s) who have knowledge of this agreement and the legal capacity to comply with this agreement shall be available for conference at all regular business hours (PST). Each party agrees that during a time that this agreement is in effect, the responsible contact person(s) will be available at all regular business hours (PST) for communication or other matters of this agreement. The current contact information as of the signing of this agreement is:

Primary Contact for CONTRACTOR
Stephanie Cooper-Noe, Client Liaison
11093 Sun Center Drive
Rancho Cordova, CA 95670
916-669-4607
Email scooper-noe@webillems.com

Primary Contact for PROVIDER
Tim Cordero, Fire Chief
4040 Carson Road
Camino, CA 95709-0807
530-644-9630
Email corderot@eldofire.com

6. PERFORMANCE MONITORING: CONTRACTOR agrees to allow PROVIDER, or any agent or Consultant as they deem so qualified, to monitor audit, review, examine, or study the methods, procedures and results of the billing and collection methods used.

7. COMPLYING WITH THE LAW: CONTRACTOR shall adhere to all applicable state and federal laws and regulations in effect during the term of this Agreement.

8. INSURANCE: CONTRACTOR will maintain in force throughout the term of this Agreement the following insurance:

A) General Liability Insurance, 3,000,000 aggregate,
B) Professional Liability Insurance, 1,000,000
C) Workers Compensation Insurance, 1,000,000.

9. INDEMNIFICATION AND HOLD HARMLESS: CONTRACTOR hereby agrees to indemnify, defend, and save harmless PROVIDER, its officers and employees from all liability, including any claim of liability and any losses or costs (including reasonable attorneys' fees) arising out of the negligent or intentional act, recklessness or gross negligence of CONTRACTOR its officers, or employees.

PROVIDER agrees to defend, indemnify and hold CONTRACTOR and its officers, and employees harmless from and against any and all claim, actions, damages, expenses (including reasonable attorney's fees), losses or liabilities incurred by or asserted against CONTRACTOR its officer or employees as a result of this Agreement; provided, however, that such duty to defend, indemnify and hold harmless shall not apply to any claim or liability to the extent caused by the negligent or intentional act, recklessness or gross negligence of CONTRACTOR its officers, or employees.

10. CONTRACTOR LIMITED LIABILITY: CONTRACTOR shall use due care in processing the claims of the PROVIDER, but CONTRACTOR will be responsible only to the extent of correcting any errors which occur within CONTRACTOR's reasonable control; such errors will be corrected at no additional charge to PROVIDER. This liability of CONTRACTOR with respect to this Paragraph shall in any event be limited to the total compensation for the services provided under this Agreement and shall not include any contingent liability, regardless of the form of action.

11. CONTRACTOR SERVICES AND RESPONSIBILITIES: CONTRACTOR shall perform the following services for PROVIDER.

- a) screen, prepare, and submit claims to any and all payors including but not necessarily limited to insurance carriers, and any other source of pay for first responder incidents.
- b) track and trace all claims submitted,
- c) resubmit or otherwise resolve denied or disallowed claims,
- d) retain all source documents for 84 months,
- e) provide adequate precautions to protect confidentiality of patient records in accordance with applicable state and federal law.
- f) timely submit claims, predicated upon normal working conditions and subject to adjustment at any time in the event of any cause or causes beyond the control of CONTRACTOR
- g) conduct all contact and correspondence with beneficiaries or responsible parties.

12. PROVIDER RESPONSIBILITIES: Provider shall have the following responsibilities to CONTRACTOR

- a) Provide CONTRACTOR with the proper documentation necessary to prepare claims and reach final adjudication,
- b) Provide CONTRACTOR with any correspondence from the fiscal intermediaries, insurance, attorneys, patients in order for CONTRACTOR to perform proper follow up of outstanding billings and proper posting and tracking of accounts receivable.

13. DISPUTES: Any controversy or claim arising out of or relating to this Agreement, or the breach thereof, shall be settled by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration rules and judgment upon the award rendered by the arbitrator may be entered in any court having jurisdiction thereof. Civil Code of Procedure 1283.05 is incorporated into the discovery provisions of CCP §1283 in all issues arising out of or relating to this Agreement, or the breach thereof.

14. EXCUSE OF NON-PERFORMANCE: Neither party shall be liable for damages to the other party for failure of performance under the terms of this Agreement in the event that party's performance is prevented or made unreasonably difficult or costly by any labor dispute beyond control of the party, war, governmental action, looting, vandalism, earthquake, fire, flood, or any other natural occurrence.

15. DISENGAGEMENT AGREEMENT: Upon termination of the contract, CONTRACTOR will continue to perform billing services to the date agreed upon as the termination date. CONTRACTOR will return to PROVIDER all previously retained source documents, along with a full accounting of outstanding accounts receivable in an electronic format at the PROVIDER's expense.

16. NOTICE: Any notice given hereunder shall be deemed served immediately if hand-delivered in writing to an officer or other duly appointed representative of the Party to whom the notice is directed, or if transmitted by electronic format to the email address contained in this Agreement or listed below. Notices shall also be deemed served five business days after transmittal by registered, certified, express, or regular mail or by Federal Express to the business address identified in this Agreement.

CONTRACTOR:

Corinne Wittman-Wong, CEO
11093 Sun Center Drive
Rancho Cordova, CA 95670
Email cwittmanwong@webillems.com

PROVIDER:

Tim Cordero, Fire Chief
4040 Carson Road
Camino, CA 95709-0807
Email corderot@eldofire.com

17. ENTIRETY: Any of the terms or conditions of this Agreement may be waived at any time by the party entitled to the benefit thereof, but no such waiver shall affect or impair the rights of the waiving party to require observance, performance or satisfaction either of that term or condition as it applies on the subsequent occasion or of any other term or condition hereof.

Nothing in this Agreement, whether express or implied is intended to confer any rights or remedies under or by reason of this Agreement on any persons other than the parties to it and their respective successors and assigns, nor is anything in this Agreement intended to relieve or discharge the obligation or liability of any third persons to any party to this Agreement nor shall any provision give any third persons any rights of subrogation or action over against any party to this Agreement

This Agreement sets forth the entire understanding of the parties with respect to the subject matter herein. There are no other understandings, terms or other Agreements expressed or implied, oral or written, except as set forth herein.

IN WITNESS WHEREOF the parties hereto have executed this Agreement the day and year first herein above written.

WITTMAN ENTERPRISES, LLC

EL DORADO COUNTY FIRE PROTECTION
DISTRICT

By:
Corinne Wittman-Wong, CEO

By:
Tim Cordero, Fire Chief

(Signature)

(Date)

(Signature)

(Date)

**Wittman Enterprises, LLC
Business Associate Agreement**

Between Wittman Enterprises, LLC and the El Dorado County Fire Protection District

This Business Associate Agreement (“Agreement”) between the **El Dorado County Fire Protection District** (Covered Entity) and **Wittman Enterprises, LLC** (Business Associate) is executed to ensure that Wittman Enterprises, LLC will appropriately safeguard protected health information (“PHI”) that is created, received, maintained, or transmitted on behalf of the El Dorado County Fire Protection District in compliance with the applicable provisions of Public Law 104-191 of August 21, 1996, known as the Health Insurance Portability and Accountability Act of 1996, Subtitle F – Administrative Simplification, Sections 261, *et seq.*, as amended (“HIPAA”), and with Public Law 111-5 of February 17, 2009, known as the American Recovery and Reinvestment Act of 2009, Title XII, Subtitle D – Privacy, Sections 13400, *et seq.*, the Health Information Technology and Clinical Health Act, as amended (the “HITECH Act”).

A. General Provisions

1. **Meaning of Terms.** The terms used in this Agreement shall have the same meaning as those terms defined in HIPAA.
2. **Regulatory References.** Any reference in this Agreement to a regulatory section means the section currently in effect or as amended.
3. **Interpretation.** Any ambiguity in this Agreement shall be interpreted to permit compliance with HIPAA.

B. Obligations of Business Associate

Wittman Enterprises, LLC agrees that it will:

1. Not use or further disclose PHI other than as permitted or required by this Agreement or as required by law;
2. Use appropriate safeguards and comply, where applicable, with the HIPAA Security Rule with respect to electronic protected health information (“e-PHI”) and implement appropriate physical, technical and administrative safeguards to prevent use or disclosure of PHI other than as provided for by this Agreement;
3. Report to the District any use or disclosure of PHI not provided for by this Agreement of which it becomes aware, including any security incident (as defined in the HIPAA Security Rule) and any breaches of unsecured PHI as required by 45 CFR §164.410. Breaches of unsecured PHI shall be reported to the El Dorado County Fire Protection District without unreasonable delay but in no case later than 60 days after discovery of the breach;

4. In accordance with 45 CFR 164.502(e)(1)(ii) and 164.308(b)(2), ensure that any subcontractors that create, receive, maintain, or transmit PHI on behalf of Wittman Enterprises, LLC agree to the same restrictions, conditions, and requirements that apply to Wittman Enterprises, LLC with respect to such information;
5. Make PHI in a designated record set available to the El Dorado County Fire Protection District and to an individual who has a right of access in a manner that satisfies the District's obligations to provide access to PHI in accordance with 45 CFR §164.524 within 30 days of a request;
6. Make any amendment(s) to PHI in a designated record set as directed by the El Dorado County Fire Protection District, or take other measures necessary to satisfy the District's obligations under 45 CFR §164.526;
7. Maintain and make available information required to provide an accounting of disclosures to the District or an individual who has a right to an accounting within 60 days and as necessary to satisfy the El Dorado County Fire Protection District's obligations under 45 CFR §164.528;
8. To the extent that Wittman Enterprises, LLC is to carry out any of the El Dorado County Fire Protection District's obligations under the HIPAA Privacy Rule, Wittman Enterprises, LLC shall comply with the requirements of the Privacy Rule that apply to the District when it carries out that obligation;
9. Make its internal practices, books, and records relating to the use and disclosure of PHI received from, or created or received by Wittman Enterprises, LLC on behalf of the El Dorado County Fire Protection District, available to the Secretary of the Department of Health and Human Services for purposes of determining Wittman Enterprises, LLC and the District's compliance with HIPAA and the HITECH Act;
10. Restrict the use or disclosure of PHI if the El Dorado County Fire Protection District notifies Wittman Enterprises, LLC of any restriction on the use or disclosure of PHI that the District has agreed to or is required to abide by under 45 CFR §164.522; and
11. If the District is subject to the Red Flags Rule (found at 16 CFR §681.1 *et seq.*), Wittman Enterprises, LLC agrees to assist the El Dorado County Fire Protection District in complying with its Red Flags Rule obligations by: (a) implementing policies and procedures to detect relevant Red Flags (as defined under 16 C.F.R. §681.2); (b) taking all steps necessary to comply with the policies and procedures of the District's Identity Theft Prevention Program; (c) ensuring that any agent or third party who performs services on its behalf in connection with covered accounts of the District agrees to implement reasonable policies and procedures designed to detect, prevent, and mitigate the risk of identity theft; and (d) alerting the District of any Red Flag incident (as defined by the Red Flag Rules) of which it becomes aware, the steps

it has taken to mitigate any potential harm that may have occurred, and provide a report to the District of any threat of identity theft as a result of the incident.

C. Permitted Uses and Disclosures by Business Associate

The specific uses and disclosures of PHI that may be made by Wittman Enterprises, LLC on behalf of the El Dorado County Fire Protection District include:

1. The preparation of invoices to patients, carriers, insurers and others responsible for payment or reimbursement of the services provided by the El Dorado County Fire Protection District to its patients;
2. Preparation of reminder notices and documents pertaining to collections of overdue accounts;
3. The submission of supporting documentation to carriers, insurers and other payers to substantiate the healthcare services provided by the District to its patients or to appeal denials of payment for the same; and
4. Other uses or disclosures of PHI as permitted by HIPAA necessary to perform the services that Wittman Enterprises, LLC has been engaged to perform on behalf of the District.

D. Termination

1. The El Dorado County Fire Protection District may terminate this Agreement if the District determines that Wittman Enterprises, LLC has violated a material term of the Agreement.
2. If either party knows of a pattern of activity or practice of the other party that constitutes a material breach or violation of the other party's obligations under this Agreement, that party shall take reasonable steps to cure the breach or end the violation, as applicable, and, if such steps are unsuccessful, terminate the Agreement if feasible.
3. Upon termination of this Agreement for any reason, Wittman Enterprises, LLC shall return to the District or destroy all PHI received from the District, or created, maintained, or received by Wittman Enterprises, LLC on behalf of the District that Wittman Enterprises, LLC still maintains in any form. Wittman Enterprises, LLC shall retain no copies of the PHI. If return or destruction is infeasible, the protections of this Agreement will extend to such PHI.

AGREED TO THIS FIRST DAY OF AUGUST, 2022

WITTMAN ENTERPRISES, LLC

EL DORADO COUNTY FIRE PROTECTION DISTRICT

By:
Corinne Wittman-Wong, CEO

By:
Tim Cordero, Fire Chief

(Signature)

(Date)

(Signature)

(Date)



To: Board of Directors
From: Tim Cordero, Fire Chief
Date: August 8, 2022
Subject: Ladder Truck Purchase

The Fourth Amendment to the Agreement with the Shingle Springs Band of Miwok Indians, provided for \$600,000 funding towards the purchase of a new Ladder Truck, with additional support for funding the Station 17 project. The balance of the purchase for the ladder truck would be funded using Development Impact Mitigation Fees.

Staff submitted a letter of request, with supporting documentation, to the County Chief Administrators Office requesting the use of Development Impact Mitigation Fees for \$600,000 for the purchase of the ladder truck and \$600,000 for the Station 17 project. Both requests were placed on the Board of Supervisors July 19, 2022, Agenda and subsequently approved.

The District apparatus Committee, under the direction of Chief Lohan, has been working with our Representative from Pierce Manufacturing on the specifications of the new ladder truck. Pierce Manufacturing has provided a contract for the build and purchase of the ladder truck with a cost of \$1,319,836.13. This price includes a pre-payment discount of \$51,612.60. The proposed contract acknowledges the initial payment of \$1,200,00.00, with the residual payment of \$119,836.13 due in 45 days. Staff has submitted the request to the County for the additional balance of the purchase utilizing Development Impact Mitigation Fees.

Staff would recommend the Board approve the purchase of the ladder truck at a cost of \$1,319,836.13 and authorize the Fire Chief to sign the Golden State Fire Apparatus Proposal Number 10722-22.

Attached Documents:

Golden State Fire Apparatus Proposal Number 10722-22

El Dorado County Board of Supervisors minutes from July 19, 2022, pages 1 - 6

July 22, 2022

Mr. Paul Lohan, *Division Chief*
El Dorado County Fire Protection District
4040 Carson Road
Camino, CA 95709

Dear Chief Lohan -

I am enclosing our proposal for one (1) new 107' Ascendant Ladder Truck with this cover letter. Based on your department's input, we have selected the *Pierce Enforcer* chassis on which to base this proposal. Some of the noteworthy features you will find include:

- ✓ 525 horsepower Cummins X12 motor with an Allison EVS 4500 transmission
- ✓ 107' Pierce Ascendant Heavy-Duty Ladder
- ✓ All emergency lighting is LED

The cost of the unit described in this proposal is contingent upon the district making a 100% pre-payment (or entering into a lease purchase agreement) at time of contract signing. Lease purchase options are available upon request (a lease purchase option would allow the district to take advantage of the 100% pre-payment pricing).

The total price shown includes California Sales Tax at the rate of 7.25% and two (2) factory inspection trips as outlined in the specification. Price is based on delivery F.O.B. to our service facility in Sacramento.

If the district elects to purchase the proposed apparatus and would like to sign a contract, please let me know right away and I will have one drafted and send it to you for signing. Or if the district prefers to purchase the proposed apparatus with a Purchase Order (PO), please address it to the following:

Golden State Fire Apparatus Inc.
7400 Reese Road
Sacramento, CA 95828

This quote will be valid until August 21, 2022.

We appreciate the opportunity to submit this information and look forward to going over any questions you might have. Let me know if there is anything else I can do and feel free to give me a call anytime. My cell number is (916) 869-6072 and thank you again.

Sincerely,



Brad Hansen
Sales Consultant



PRODUCT PROPOSAL

Exhibit "A"

Bid #774



**GOLDEN
STATE**
FIRE APPARATUS

PROPOSAL PREPARED FOR

El Dorado County Fire District
Pierce Manufacturing, Inc.
107' Enforcer Ascendant Ladder
Truck
Sourcewell #113021, ID #236
July 22, 2022

SALES CONSULTANT

Brad Hansen
Golden State Fire Apparatus, Inc.
7400 Reese Road
Sacramento, CA 95828
916.869.6072 Cell
brad@goldenstatefire.com

PARTS, SERVICE & SUPPORT

Golden State Emergency Vehicle Service, Inc.
7400 Reese Road
Sacramento, CA 95828
916.330.1638 Office
parts@goldenstatefire.com

PROPOSAL PREPARED FOR:

El Dorado County Fire District
4040 Carson Road
Camino, CA 95709

Submitted Date:	July 22, 2022
Proposal Number:	10722-22
<i>Expiration Date:</i>	<i>August 21, 2022</i>
Sales Consultant:	Brad Hansen

Pursuant to this proposal (the "Proposal"), Golden State Fire Apparatus, Inc. ("GSFA") hereby proposes to furnish EL DORADO COUNTY FIRE DISTRICT ("Customer"), the following fire apparatus and equipment, hereinafter called the "Product":

#	Description	Price
A	One (1) Pierce Manufacturing, Inc. 107' Enforcer Ascendant Ladder Truck	1,282,212.72
B	<i>Pre-Payment Discount for 100% Payment at Time of Order</i>	<i>(51,612.60)</i>
SUBTOTAL		1,230,600.12
7.25% State Sales Tax		89,218.51
California Tire Fee		17.50
GRAND TOTAL		1,319,836.13



PROPOSAL SUMMARY

This Proposal includes the following items in accordance with the specifications hereto attached:

- Fire apparatus and equipment
- Pre-delivery inspection/services by GSFA
- Delivery to GSFA service center in Sacramento
- Final delivery from service center to Customer
- Demonstration and familiarization of the Product

PRODUCT COMPLETION

The Product shall be built in accordance with the specifications hereto attached within approximately **525 to 555** calendar days after Customer's acceptance of this Proposal, subject to the force majeure provisions contained in the Purchase Agreement (defined below). The Purchase Agreement shall further describe the delivery schedule for the Product.

DELIVERY LOCATION

Product shall be shipped in accordance with the specifications hereto attached and be delivered to you at **SACRAMENTO, CALIFORNIA**. Prior to final delivery of the Product to Customer, Customer agrees to provide proof of liability and physical damage insurance to GSFA. GSFA shall not deliver the Product until such proof of insurance is provided.

ACCEPTING THIS PROPOSAL

In the event Customer wishes to purchase the Product described in this Proposal and the attached specifications, then, prior to the expiration date listed on page 2 of this Proposal, Customer shall sign and return this Proposal. Thereafter, GSFA and Customer will endeavor to enter into a purchase agreement incorporating this Proposal and including additional terms (a "Purchase Agreement"). If Customer returns a signed copy of this Proposal alone, GSFA will send Customer its form of Purchase Agreement for Customer's review and signature. **If Customer desires to use its standard form of purchase order as the Purchase Agreement, then Customer should return a signed copy of this Proposal along with a copy of such purchase order. All purchase orders shall be made out to GSFA.** GSFA will review such purchase order and contact the Customer regarding any required revisions. Only upon a full execution of a Purchase Agreement shall GSFA and Customer be obligated to purchase and sell the Product set forth in this Proposal.

TERMS AND CONDITIONS

The following Terms and Conditions are hereby made part of this Proposal:

1. Payment Terms, (100% Pre-Payment at Time of Order) - Customer shall pay the amount listed on page 2 of this Proposal, which includes: (i) the total price for the Product (the "Purchase Price") less the Pre-Payment discount, (ii) the estimated state sales tax on the Product, and (iii) the California tire fee (together with the Purchase Price and estimated state sales tax, the "Grand Total") within fifteen (15) calendar days from the date on which the Purchase Agreement is fully executed. In the event Customer does not pay GSFA the Grand Total in the timeframe set forth in this Section 1, Customer shall not receive the Pre-Payment discount shown on page 2 of this Proposal and GSFA may, in its sole discretion cancel the Purchase Agreement entered into between the parties.

2. Multiple Unit Purchase - If the Purchase Price includes pricing for multiple units, the price stated on this Proposal shall only be valid if the quantity of Products being proposed are purchased at the same time, pursuant to the same Purchase Agreement.

3. Stock / Demo Units - If applicable, any stock/demo units, including those identified by this Proposal, are available for sale on an as-is, first-come and first served-basis. Regardless of this Proposal, the first Customer to enter into a Purchase Agreement identifying any such stock/demo unites shall obtain said units.

4. Order Changes - The Customer may request that GSFA incorporate a change to the Product or the Specifications for the Product by delivering a written change order to GSFA, which shall include a description of the proposed change sufficient to permit GSFA to evaluate the feasibility of such change (a "Change Order"). GSFA will provide Customer a written response (a "Response") stating (i) whether GSFA will accommodate such Change Order (which GSFA may decide in its sole and absolute discretion) and (ii) the terms of the modification to the order, including any increase or decrease in the Purchase Price resulting from such Change Order, and any effect on production scheduling or Delivery resulting from such Change Order. Customer shall have seven (7) days after receipt of the Response to notify GSFA as to whether Customer desires to make the changes GSFA has approved in the Response. In the event Customer counter-signs GSFA's Response, Customer shall pay the increase (or be refunded the decrease) in the Purchase Price prior to final delivery to Customer location.

5. Force Majeure - GSFA shall not be responsible nor deemed to be in default on account of delays in performance due to causes which are beyond GSFA's and manufacturer's control and which make GSFA's performance impracticable, including but not limited to wars, insurrections, strikes, riots, fires, storms, floods, other acts of nature, explosions, earthquakes, accidents, any act of government, delays in transportation, inability to obtain necessary labor supplies or manufacturing facilities, allocation regulations or orders affecting materials, equipment, facilities or completed products, failure to obtain any required license or certificates, acts of God or the public enemy or terrorism, failure of transportation, epidemics, quarantine restrictions, failure of vendors (due to causes similar to those within the scope of this clause) to perform their contracts or labor troubles causing cessation, slowdown, or interruption of work.

6. Cancellation/Termination - In the event Customer and GSFA enter into a Purchase Agreement and Customer thereafter cancels or terminates the Purchase Agreement, GSFA will charge a cancellation fee as follows: (a) 10% of the Purchase Price after order is accepted and entered by GSFA; (b) 20% of the Purchase Price after completion of the pre-construction phase of the order process; and (c) 50% of the Purchase Price after the requisition of any materials or commencement of any manufacturing or assembly of the Product by either GSFA or the manufacturer of the Product. The tier of cancellation fee applicable to any cancellation shall be in the sole and absolute discretion of GSFA.

7. State Sales Tax - Customer shall be responsible for the cost of state sales tax associated with, or attributable to the Product. The taxes owed by Customer for the Product is subject to adjustment for the applicable state sales tax rate in effect when the Product is delivered to the Customer. Therefore, the sales tax will be increased or decreased at the time of delivery if a change in the sales tax rate has occurred, in which case Customer shall pay GSFA (or be refunded by GSFA) the applicable change in sales tax.

8. Proposal Expiration - After the Expiration Date shown on page one of this Proposal, Customer shall require GSFA's written consent to accept this Proposal.

9. Governing Law - This Proposal is to be governed by and under the laws of the state of California.

Thank you for providing Golden State Fire Apparatus, Inc. with the opportunity to provide this proposal. If you have any questions regarding the options presented or need additional options, please contact me.

Sincerely,



Brad Hansen
Golden State Fire Apparatus, Inc.

I, _____ authorized representative of **EL DORADO COUNTY FIRE DISTRICT** agrees to purchase the proposed Product(s) and agree to the terms and conditions of this proposal and the specifications hereto attached.

SIGNATURE: _____

TITLE: _____ DATE: _____



PRODUCT SPECIFICATIONS

Exhibit "B"

Bid #774



Proposal Details Report

7/22/2022

Customer: El Dorado County Fire District **Bid Number:** 774
Representative: Hansen, Brad **Job Number:**
Requirements Manager: **Organization:** Golden State Fire Apparatus, Inc
Description: EDC 107' BMP
Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL
Body: Aerial, HD Ladder 107' ASL Tandem, No Pump, Alum Body

OptionCode	Type	Option	ProposalText
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0766639		Boiler Plates, Aerial 107' ASL, w/o Pump	Golden State Fire Apparatus is pleased to submit a proposal to El Dorado County Fire Protection District for a Pierce@107' Heavy Duty Aerial Ladder per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications.
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Golden State Fire Apparatus is pleased to submit a proposal to El Dorado County Fire Protection District for a **Pierce@107' Heavy Duty Aerial Ladder** per your request for quotation. The following paragraphs will describe in detail the apparatus, construction methods, and equipment proposed. This proposal will indicate size, type, model and make of components parts and equipment, providing proof of compliance with each and every item (except where noted) in the departments advertised specifications.

PIERCE MANUFACTURING was founded in 1913. Since then we have been building bodies with one philosophy, "BUILD THE FINEST". Our skilled craftsmen take pride in their work, which is reflected, in the final product. We have been building fire apparatus since the early "forties" giving Pierce Manufacturing over 75 years of experience in the fire apparatus market. Pierce Manufacturing has built and put into service more than 62,500 apparatus, including more than 33,900 on Pierce custom chassis designed and built specifically for fire and emergency applications. Our Appleton, Wisconsin facility has over 870,000 total square feet of floor space situated on approximately 105 acres of land. Our Bradenton, Florida facility has 300,000 square feet of floor space situated on approximately 38 acres of land.

Our beliefs in high ethical standards are carried through in all of our commitments and to everyone with whom we do business. Honesty, Integrity, Accountability and Citizenship are global tenets by which we all live and work. Consequently, we neither engage in, nor have we ever been convicted of price fixing, bid rigging, or collusion in any domestic or international fire apparatus market.

Pierce has only one brand of fire apparatus "Pierce", ensuring you are receiving top of the line product that meets your specification.

In accordance with the current edition of NFPA 1901 standards, this proposal will specify whether the fire department, manufacturer, or apparatus dealership will provide required loose equipment. Images and illustrative material in this proposal are as accurate as known at the time of publication, but are subject to change without notice. Images and illustrative material is for reference only, and may include optional equipment and accessories and may not include all standard equipment.

GENERAL DESIGN AND CONSTRUCTION

To control quality, ensure compatibility, and provide a single source for service and warranty, the custom cab, chassis, pump module and body will be entirely designed, assembled/welded and painted in Pierce owned manufacturing facilities. This includes, but not limited to the cab weldment, the pumphouse module assembly, the chassis assembly, the body and the electrical system.

QUALITY AND WORKMANSHIP

Pierce has set the pace for quality and workmanship in the fire apparatus field. Our tradition of building the highest quality units with craftsmen second to none has been the rule right from the beginning and we demonstrate that ongoing commitment by: Ensuring all steel welding follows American Welding Society D1.1-2004 recommendations for structural steel welding. All aluminum welding follows American Welding society and ANSI D1.2-2003 requirements for structural welding of aluminum. All sheet metal welding follows American welding Society B2.1-2000 requirements for structural welding of sheet metal. Our flux core arc welding uses alloy rods, type 7000 and is performed to American Welding Society standards A5.20-E70T1. Furthermore, all employees classified as welders are tested and certified to meet the American welding Society codes upon hire and every three (3) years thereafter. Pierce also employs and American Welding Society certified welding inspector in plant during working hours to monitor weld quality.

Pierce Manufacturing operates a Quality Management System under the requirements of ISO 9001. These standards sponsored by the International Organization for Standardization (ISO) specify the quality systems that are established by the manufacturer for design, manufacture, installation and service. A copy of the certificate of compliance is included with this proposal. In addition to the Quality Management system, we also employ a Quality Achievement Supplier program to insure the vendors and suppliers that we utilize meet the high standards we demand. That is just part of our overall "Quality at the Source" program at Pierce.

To demonstrate the quality of our products and services, a list of at least five (5) fire departments/municipalities that have purchased vehicles for a second time is provided.

DELIVERY

The apparatus will be delivered under its own power to insure proper break-in of all components while the apparatus is still under warranty. A qualified delivery representative shall deliver the apparatus and remain for a sufficient length of time to instruct personnel in proper operation, care and maintenance of the equipment delivered.

MANUAL AND SERVICE INFORMATION

At time of delivery, complete operation and maintenance manuals covering the apparatus will be provided. A permanent plate will be mounted in the driver's compartment specifying the quantity and type of fluids required including engine oil, engine coolant, transmission, pump transmission lubrication, pump primer and drive axle.

SAFETY VIDEO

At the time of delivery Pierce will also provide one (1) 39-minute, professionally produced apparatus safety video, in DVD format. This video will address key safety considerations for personnel to follow when they are driving, operating, and maintaining the apparatus, including the following: vehicle pre-trip inspection, chassis operation, pump operation, aerial operation, and safety during maintenance.

PERFORMANCE TESTS

A road test will be conducted with the apparatus fully loaded and a continuous run of no less than ten (10) miles. During that time the apparatus will show no loss of power nor will it overheat. The

transmission drive shaft or shafts and the axles will run quietly and be free of abnormal vibration or noise. The apparatus when fully loaded will not have less than 25 percent nor more than 50 percent on the front axle, and not less than 50 percent nor more than 75 percent on the rear axle. The apparatus will meet NFPA 1901 acceleration and braking requirements.

SERVICE AND WARRANTY SUPPORT

Pierce dealership support will be provided by Golden State Emergency Vehicle Services by operating a Pierce authorized service center. The service center will have factory-trained mechanics on staff versed in Pierce fire apparatus. The service facility will be located within fifty (50) miles of the fire department.

In addition to the dealership, Pierce has service facilities located in both, Weyauwega, Wisconsin and Bradenton, Florida. Pierce also maintains a dedicated parts facility of over 100,000 square feet in Appleton, Wisconsin. The parts facility stocks in excess of \$5,000,000 in parts dedicated to service and replacement parts. The parts facility employs a staff dedicated solely for the distribution and shipment of service and replacement parts.

Service parts for the apparatus being proposed can be found via Pierceparts.com which, is an interactive online tool that delivers information regarding your specific apparatus as well as the opportunity to register for training classes.

As a Pierce customer you have the ability to view the complete bill of materials for your specific apparatus, including assembly drawings, piece part drawings, and beneficial parts notations. You will also have the ability to search the complete Pierce item master through a parts search function which offers all Pierce SKU's and descriptions offered on all Pierce apparatus. Published component catalogs, which include proprietary systems along with an extensive operators manual library is available for easy reference.

Pierce Manufacturing maintains a dedicated service and warranty staff of over 35 personnel, dedicated to customer support, which also maintains a 24 hour 7 day a week toll free hot line, four (4) on staff EVTs, and offers hands-on repair and maintenance training classes multiple times a year.

LIABILITY

The successful bidder will defend any and all suits and assume all liability for the use of any patented process including any device or article forming a part of the apparatus or any appliance furnished under the contract.

INSURANCE PROVIDED BY BIDDER

COMMERCIAL GENERAL LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of commercial general liability insurance:

Each Occurrence \$1,000,000

Products/Completed Operations Aggregate \$1,000,000

Personal and Advertising Injury \$1,000,000

General Aggregate \$2,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form and will include Contractual Liability coverage for bodily injury and property damage subject to the terms and conditions of the policy. The policy will include Owner as an additional insured when required by written contract.

COMMERCIAL AUTOMOBILE LIABILITY INSURANCE

The successful bidder will, during the performance of the contract, keep in force at least the following minimum limits of commercial automobile liability insurance and coverage will be written on a Commercial Automobile liability form:

Each Accident Combined Single Limit: \$1,000,000

UMBRELLA/EXCESS LIABILITY INSURANCE

The successful bidder will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Aggregate: \$3,000,000

Each Occurrence: \$3,000,000

The umbrella policy will be written on an occurrence basis and at a minimum provide excess to the bidder's General Liability and Automobile Liability policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Bidder agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as certificate holder.

INSURANCE PROVIDED BY MANUFACTURER

PRODUCT LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of Product Liability insurance:

Each Occurrence \$1,000,000

Products/Completed Operations Aggregate \$1,000,000

Coverage will be written on a Commercial General Liability form. The policy will be written on an occurrence form. The manufacturer's policy will include the owner as additional insured when required by written contract between the Owner and a Pierce authorized dealer.

UMBRELLA/EXCESS LIABILITY INSURANCE

The manufacturer will, during the performance of the contract and for three (3) years following acceptance of the product, keep in force at least the following minimum limits of umbrella liability insurance:

Each Occurrence: \$25,000,000

Aggregate: \$25,000,000

The umbrella policy will be written on an occurrence basis and provide excess to the manufacturer's General Liability/Products policies.

The required limits can be provided by one (1) or more policies provided all other insurance requirements are met.

Coverage will be provided by a carrier(s) rated A- or better by A.M. Best.

All policies will provide a 30-day notice of cancellation to the named insured. The Certificate of Insurance will provide the following cancellation clause: Should any of the above described policies be cancelled before the expiration date thereof, notice will be delivered in accordance with the policy provisions.

Manufacturer agrees to furnish owner with a current Certificate of Insurance with the coverages listed above along with the bid. The certificate will show the purchaser as the certificate holder.

0018180	Single Source Compliance, Aerials	SINGLE SOURCE MANUFACTURER Pierce Manufacturing, Inc. provides an integrated approach to the design and manufacture of our products that delivers superior apparatus and a dedicated support team. From our facilities, the chassis, cab weldment, cab, pump house (including the sheet metal enclosure, valve controls, piping and operators panel) body and aerial device will be entirely designed, tested, and hand assembled to the customer's exact specifications. The electrical system either hardwired or multiplexed, will be both designed and integrated by Pierce Manufacturing. The warranties relative to these major components (excluding component warranties such as engine, transmission, axles, pump, etc.) will be provided by Pierce as a single source manufacturer. Pierce's single source solution adds value by providing a fully engineered product that offers durability, reliability, maintainability, performance, and a high level of quality.
0584456	Manufacture Location, Appleton, Wisconsin	Your apparatus will be manufactured in Appleton, Wisconsin.
0584452	RFP Location: Appleton, Wisconsin	
0588609	Vehicle Destination, US	
0610784	Comply NFPA 1901 Changes Effective Jan 1, 2016, With Exceptions	NFPA 2016 STANDARDS This unit will comply with the NFPA standards effective January 1, 2016, except for fire department directed exceptions. These exceptions will be set forth in the Statement of Exceptions. Certification of slip resistance of all stepping, standing and walking surfaces will be supplied with delivery of the apparatus. All horizontal surfaces designated as a standing or walking surface that are greater than 48.00" above the ground must be defined by a 1.00" wide line along its outside perimeter. Perimeter markings and designated access paths to destination points will be identified on the customer approval print and are shown as approximate. Actual location(s) will be determined based on materials used and actual conditions at final build. Access paths may pass through hose storage areas and opening or removal of covers or restraints may be required. Access paths may require the operation of devices and equipment such as the aerial device or ladder rack. A plate that is highly visible to the driver while seated will be provided. This plate will show the overall height, length, and gross vehicle weight rating. The manufacturer will have programs in place for training, proficiency testing and performance for any staff involved with certifications. An official of the company will designate, in writing, who is qualified to witness and certify test results.
0533349	Aerial Fire Apparatus	
0588613	Vehicle Certification, Aerial w/o Pump	

0681279

Agency, Apparatus Certification,
Aerial w/o Pump, U.L.

NFPA COMPLIANCY

Apparatus proposed by the bidder will meet the applicable requirements of the National Fire Protection Association (NFPA) as stated in current edition at time of contract execution. Fire department's specifications that differ from NFPA specifications will be indicated in the proposal as "non-NFPA".

INSPECTION CERTIFICATE

A third party inspection certificate for the aerial device will be furnished upon delivery of the aerial device. The certificate will be Underwriters Laboratories Inc. Type 1 and will indicate that the aerial device has been inspected on the production line and after final assembly.

Visual structural inspections will be performed on all welds on both aluminum and steel ladders. On critical weld areas, or on any suspected defective area, the following tests will be conducted: Magnetic particle inspection will be conducted on steel aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. Magnets will be placed on each side of the weld while iron powder is placed on the weld itself. The powder will detect any crack that may exist. This test will conform to ASTM E709 and be performed prior to assembly of the aerial device.

A liquid penetrant test will be conducted on aluminum aerials to assure the integrity of the weldments and to detect any flaws or weaknesses. This test will conform to ASTM E165 and be performed prior to assembly of the aerial device.

Ultrasonic inspection will be conducted on all aerials to detect any flaws in pins, bolts and other critical mounting components.

In addition to the tests above, functional tests, load tests, and stability tests will be performed on all aerials. These tests will determine any unusual deflection, noise, vibration, or instability characteristics of the unit.

GENERATOR TEST

If the unit has a generator, the generator will be tested, approved, and certified by Underwriters Laboratories at the manufacturer's expense. The test results will be provided to the Fire Department at the time of delivery.

BREATHING AIR TEST

If the unit has breathing air, Pierce Manufacturing will draw an air sample from the air system and certify that the air quality meets the requirements of NFPA 1989, *Standard on Breathing Air Quality for Fire and Emergency Services Respiratory Protection*.

0891947

Certification, Vehicle Inspection
Program, NFPA 1901

VEHICLE INSPECTION PROGRAM CERTIFICATION

To assure the vehicle is built to current NFPA 1901 standards, the apparatus, in its entirety, will be third-party, independent, audit-certified through Underwriters Laboratory (UL) that it is built and complies to all applicable standards in the current edition. The certification includes: all design, production, operational, and performance testing of not only the apparatus, but those components that are installed on the apparatus.

A placard will be affixed in the driver's side area stating the third party agency, the date, the standard and the certificate number of the whole vehicle audit.

0766110

Consortium, Sourcewell

0535579

Not Required, Unit of Measure, (no
pump, no tank)

0030006

Bid Bond Not Requested

BID BOND NOT REQUESTED

A bid bond will not be included. If requested, the following will apply:

All bidders will provide a bid bond as security for the bid in the form of a 5% bid bond to accompany their bid. This bid bond will be issued by a Surety Company who is listed on the U.S. Treasury Departments list of acceptable sureties as published in Department Circular 570. The bid bond will be issued by an authorized representative of the Surety Company and will be accompanied by a certified power of attorney dated on or before the date of bid. The bid bond will include language, which assures that the bidder/principal will give a bond or bonds as may be specified in the bidding or contract documents, with good and sufficient surety for the faithful performance of the contract, including the Basic One (1) Year Limited Warranty, and for the prompt payment of labor and material furnished in the prosecution of the contract.

Notwithstanding any document or assertion to the contrary, any surety bond related to the sale of a vehicle will apply only to the Basic One (1) Year Limited Warranty for such vehicle. Any surety bond related to the sale of a vehicle will not apply to any other warranties that are included within this bid (OEM or otherwise) or to the warranties (if any) of any third party of any part, component, attachment or accessory that is incorporated into or attached to the vehicle. In the event of any contradiction or inconsistency between this provision and any other document or assertion, this provision will prevail.

0582800	Performance Bond, 100% with 25% Warranty Bond, 1 Yr, and Payment Bond	<p>PERFORMANCE BOND, 1 YEAR</p> <p>The successful bidder will furnish a Performance and Payment bond (Bond) equal to 100 percent of the total contract amount within 30 days of the notice of award. Such Bond will be in a form acceptable to the Owner and issued by a surety company included within the Department of Treasury's Listing of Approved Sureties (Department Circular 570) with a minimum A.M. Best Financial Strength Rating of A and Size Category of XV. In the event of a bond issued by a surety of a lesser Size Category, a minimum Financial Strength rating of A+ is required. Bidder and Bidder's surety agree that the Bond issued hereunder, whether expressly stated or not, also includes the surety's guarantee of the vehicle manufacturer's Basic One (1) Year Limited Warranty period included within this proposal. Owner agrees that the penal amount of this bond will be simultaneously amended to 25 percent of the total contract amount upon satisfactory acceptance and delivery of the vehicle(s) included herein. Notwithstanding anything contained within this contract to the contrary, the surety's liability for any warranties of any type will not exceed one (1) year from the date of such satisfactory acceptance and delivery, or the actual Basic One (1) Year Limited Warranty period, whichever is shorter.</p>
0000007	Approval Drawing	<p>APPROVAL DRAWING</p> <p>A drawing of the proposed apparatus will be prepared and provided to the purchaser for approval before construction begins. The Pierce sales representative will also be provided with a copy of the same drawing. The finalized and approved drawing will become part of the contract documents. This drawing will indicate the chassis make and model, location of the lights, siren, horns, compartments, major components, etc.</p> <p>A "revised" approval drawing of the apparatus will be prepared and submitted by Pierce to the purchaser showing any changes made to the approval drawing.</p>
0670758	Drawing, Compartment Layout, Aerial	<p>COMPARTMENT LAYOUT DRAWING</p> <p>A sales drawing will be provided as if the rear body compartment doors are open. This drawing will be provided for graphic representation only and will include such things as shelves, trays, reels, dividers, air control panels, air bottle storage bins, poly boxes, etc.</p>
0002928	Electrical Diagrams	<p>ELECTRICAL WIRING DIAGRAMS</p> <p>Two (2) electrical wiring diagrams, prepared for the model of chassis and body, will be provided.</p>
0786875	Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL	<p>ENFORCER CHASSIS</p> <p>The Pierce Enforcer™ is the custom chassis developed exclusively for the fire service. Chassis provided will be a new, tilt-type custom fire apparatus. The chassis will be manufactured in the apparatus body builder's facility eliminating any split responsibility. The chassis will be designed and manufactured for heavy-duty service, with adequate strength, capacity for the intended load to be sustained, and the type of service required. The chassis will be the manufacturer's first line tilt cab.</p>
0021007	Maximum Overall Height	<p>MAXIMUM OVERALL HEIGHT</p> <p>The maximum overall height of the apparatus will be 12'.</p>
0523786	Angle of Approach	<p>ANGLE OF APPROACH</p> <p>The angle of approach will be 15 degrees. This will be effective with the truck in a loaded state.</p>
0523787	Angle of Departure	<p>ANGLE OF DEPARTURE</p> <p>The angle of departure will be 12. Looking to know exactly what it is. degrees. This will be effective with the truck in a loaded state.</p>
0000110	Wheelbase	<p>WHEELBASE</p> <p>The wheelbase of the vehicle will be 248.5".</p>
0000070	GVW Rating	<p>GVW RATING</p> <p>The gross vehicle weight rating will be 66,800lbs.</p>
0729280	Frame Rails, 13.38 x 3.50 x .375, Enforcer	<p>FRAME</p> <p>The chassis frame will be built with two (2) steel channels bolted to five (5) cross members or more, depending on other options of the apparatus. The side rails will have a 13.38" tall web over the front and mid sections of the chassis, with a continuous smooth taper to 10.75" over the rear axle. Each rail will have a section modulus of 25.992 cubic inches and a resisting bending moment (rbm) of 3,119,040 in-lb over the critical regions of the frame assembly, with a section modulus of 18.96 cubic inches with an rbm of 2,275,200 in-lb over the rear axle. The frame rails will be constructed of 120,000 psi yield strength heat-treated 0.38" thick steel with 3.50" wide flanges.</p>

0889469	Frame Liner, "C/Inv L" 12.50" x 3.00" x .25", AXT/Vel/Imp/Enf, 56" QVal	<p>FRAME REINFORCEMENT</p> <p>In addition, a mainframe internal liner will be provided. The liner will be an internal "C" design that steps to an internal "L" design over the rear axle. It will be heat-treated steel measuring 12.50" x 3.00" x 0.25" through the front portion of the liner, stepping to 9.38" x 3.00" x 0.25" through the rear portion of the liner. Each liner will have a section modulus of 13.58 cubic inches, yield strength of 110,000 psi, and rbm of 1,494,042 in-lb. Total rbm at wheelbase center will be 4,391,869 in-lb.</p> <p>The frame liner will be mounted inside of the chassis frame rail and extend the full length of the frame.</p>
0629940	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer	<p>FRONT NON DRIVE AXLE</p> <p>The Oshkosh TAK-4® front axle will be of the independent suspension design with a ground rating of 22,800 lb.</p> <p>Upper and lower control arms will be used on each side of the axle. Upper control arm castings will be made of 100,000-psi yield strength 8630 steel and the lower control arm casting will be made of 55,000-psi yield ductile iron.</p> <p>The center cross members and side plates will be constructed out of 80,000-psi yield strength steel.</p> <p>Each control arm will be mounted to the center section using elastomer bushings. These rubber bushings will rotate on low friction plain bearings and be lubricated for life. Each bushing will also have a flange end to absorb longitudinal impact loads, reducing noise and vibrations.</p> <p>There will be nine (9) grease fittings supplied, one (1) on each control arm pivot and one (1) on the steering gear extension.</p> <p>The upper control arm will be shorter than the lower arm so that wheel end geometry provides positive camber when deflected below rated load and negative camber above rated load. Camber at load will be zero degrees for optimum tire life.</p> <p>The ball joint bearing will be of low friction design and be maintenance free.</p> <p>Toe links that are adjustable for alignment of the wheel to the center of the chassis will be provided.</p> <p>The wheel ends will have little to no bump steer when the chassis encounters a hole or obstacle. The steering linkage will provide proper steering angles for the inside and outside wheel, based on the vehicle wheelbase.</p> <p>The axle will have a turning angle of up to 45 degrees.</p>
0010427	Suspension, Front TAK-4, 22,800 lb, Qtm/AXT/Imp/Vel/DCF/Enf	<p>FRONT SUSPENSION</p> <p>Front Oshkosh TAK-4™ independent suspension will be provided with a minimum ground rating of 22,800 lb.</p> <p>The independent suspension system will be designed to provide maximum ride comfort. The design will allow the vehicle to travel at highway speeds over improved road surfaces and at moderate speeds over rough terrain with minimal transfer of road shock and vibration to the vehicle's crew compartment.</p> <p>Each wheel will have torsion bar type spring. In addition, each front wheel end will also have energy absorbing jounce bumpers to prevent bottoming of the suspension.</p> <p>The suspension design will be such that there is at least 10.00" of total wheel travel and a minimum of 3.75" before suspension bottoms.</p> <p>The torsion bar anchor lock system allows for simple lean adjustments, without the use of shims. One can adjust for a lean within 15 minutes per side. Anchor adjustment design is such that it allows for ride height adjustment on each side.</p> <p>The independent suspension was put through a durability test that simulated 140,000 miles of inner city driving.</p>
0087572	Shock Absorbers, KONI, TAK-4, Qtm/AXT/Imp/Vel/DCF/Enf	<p>FRONT SHOCK ABSORBERS</p> <p>KONI heavy-duty telescoping shock absorbers will be provided on the front suspension.</p>
0000322	Oil Seals, Front Axle	<p>FRONT OIL SEALS</p> <p>Oil seals with viewing window will be provided on the front axle.</p>
0899438	Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply	<p>FRONT TIRES</p> <p>Front tires will be Goodyear 425/65R22.50 radials, 20 ply Armor Max MSA, rated for 22,800 lb maximum axle load and 68 mph maximum speed.</p>
0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot	<p>The tires will be mounted on Alcoa 22.50" x 12.25" polished aluminum disc type wheels with a ten (10)stud, 11.25" bolt circle.</p>
0603829	Axle, Rear, Meritor MT-44-14X, 44,000 lb, Saber FR/Enforcer	<p>REAR AXLE</p> <p>The rear axle will be a Meritor™, Model MT-44-14X, tandem axle assembly with a capacity of 44,000 lb.</p> <p>An inter-axle differential lock, which divides torque evenly between axles, will be provided on the rear axle with an indicator light mounted on the cab instrument panel.</p>
0651477	SP Top Speed of Vehicle, Geared For 68, Speed Limited To 60 MPH	<p>TOP SPEED OF VEHICLE</p> <p>A rear axle ratio will be furnished to allow the vehicle to reach an approximate top speed of 68 mph. The top speed will be electronically limited to 60 mph.</p>

0555353	Suspen, Rear, Hendrickson FMX 482 EX, Air Ride, 48,000 lb	<p>REAR SUSPENSION</p> <p>Rear suspension will be a Hendrickson, Model FMX 482 EX, air ride with a ground rating of 48,000 lb. The suspension will have the following features: Outboard vertical mounted heavy-duty shock absorbers Utilizes track bars and torque rods to restrict lateral axle movement and maintain constant pinion angles Super heavy-duty transverse beam to help reduce axle stress while increasing roll stability or resistance to lean Low spring rate air springs for excellent ride quality Dual height control valves to maintain level vehicle from side to side</p>
0000485	Oil Seals, Rear Axle	<p>REAR OIL SEALS</p> <p>Oil seals will be provided on the rear axle(s).</p>
0587016	Tires, Rear, Goodyear, G622 RSD, 12R22.50, 16 ply, Tandem	<p>REAR TIRES</p> <p>Rear tires will be eight (8) Goodyear 12R22.50 radials, 16 ply all season G622 RSD tread, rated for 54,240 lb maximum axle load and 75 mph maximum speed.</p>
0019639	Wheels, Rear, Alcoa, 22.50" x 8.25", Aluminum, Hub Pilot, Tandem	<p>The tires will be mounted on Alcoa© 22.50" x 8.25" polished aluminum disc wheels with a ten (10) stud 11.25" bolt circle.</p>
0568081	Tire Balancing, Counteract Beads	<p>TIRE BALANCE</p> <p>All tires will be balanced with Counteract balancing beads. The beads will be inserted into the tire and eliminate the need for wheel weights.</p>
0620569	Tire Pressure Monitoring, RealWheels, AirSecure, Valve Cap, Tandem Axle	<p>TIRE PRESSURE MANAGEMENT</p> <p>There will be a RealWheels LED AirSecure™ tire alert pressure management system provided, that will monitor each tire's pressure. A sensor will be provided on the valve stem of each tire for a total of 10 tires. The sensor will calibrate to the tire pressure when installed on the valve stem for pressures between 10 and 200 psi. The sensor will activate an integral battery operated LED when the pressure of that tire drops 5 to 8 psi. Removing the cap from the sensor will indicate the functionality of the sensor and battery. If the sensor and battery are in working condition, the LED will immediately start to flash.</p>
0003245	Axle Hub Covers w/center hole, S/S, Front Axle	<p>FRONT HUB COVERS</p> <p>Stainless steel hub covers will be provided on the front axle. An oil level viewing window will be provided.</p>
0013241	Axle Hub Covers, Rear, S/S High Hat (Tandem)	<p>REAR HUB COVERS</p> <p>Stainless steel, high hat, hub covers will be provided on the rear axle hubs.</p>
0057936	Covers, Lug Nut, Chrome	<p>CHROME LUG NUT COVERS</p> <p>Chrome lug nut covers will be supplied on front and rear wheels.</p>
0002045	Mud Flap, Front and Rear, Pierce Logo	<p>MUD FLAPS</p> <p>Mud flaps with a Pierce logo will be installed behind the front and rear wheels.</p>
0760616	Chains, Onspot Automatic Tire, Custom, Locking Switch	<p>AUTOMATIC TIRE CHAINS</p> <p>One (1) pair of Onspot automatic tire chains will be provided at the rear. System will be electric over air operated with a locking switch on cab instrument panel. System may be engaged at speeds up to 25 mph and operated at speeds up to 35 mph.</p>
0601010	Chocks, Wheel, SAC-44-E, Folding, Aerials	<p>WHEEL CHOCKS</p> <p>There will be one (1) pair of folding Ziamatic, Model SAC-44-E, aluminum alloy, Quick-Choc wheel blocks, with easy-grip handle provided.</p>
0601009	Mounting Brackets, Chocks, SAC-44-E, Folding, Horizontal, Aerials	<p>Wheel Chock Brackets</p> <p>There will be one (1) pair of Zico, Model SQCH-44-H, horizontal mounting wheel chock brackets provided for the Ziamatic, Model SAC-44-E, folding wheel chocks. The brackets will be made of aluminum and consist of a quick release spring loaded rod to hold the wheel chocks in place. The brackets will be mounted forward of the left side rear tire.</p>

0010673	ABS Wabco Brake System, Tandem Rear Axle	<p>ANTI-LOCK BRAKE SYSTEM</p> <p>The vehicle will be equipped with a Wabco 4S4M, anti-lock braking system. The ABS will provide a four (4) channel anti-lock braking control on both the front and rear wheels (rear tandem wheels). A digitally controlled system that utilizes microprocessor technology will control the anti-lock braking system. Each wheel will be monitored by the system. When any particular wheel begins to lockup, a signal will be sent to the control unit. This control unit then will reduce the braking of that wheel for a fraction of a second and then reapply the brake. This anti-lock brake system will eliminate the lockup of any wheel thus helping to prevent the apparatus from skidding out of control.</p>
0030185	Brakes, Knorr/Bendix 17", Disc, Front, TAK-4	<p>BRAKES</p> <p>The service brake system will be full air type. The front brakes will be Knorr/Bendix disc type with a 17.00" ventilated rotor for improved stopping distance. The brake system will be certified, third party inspected, for improved stopping distance.</p>
0509207	Brakes, Meritor, EX225, Disc Plus, Rear, Tandem Axle	<p>The rear brakes will be Meritor™, Disc Plus, EX225 disc operated with automatic slack adjusters and a 17.00" ventilated rotor for improved stopping distance.</p>
0731553	Air Compressor, Brake, Cummins/Wabco 25.9 CFM	<p>BRAKE SYSTEM AIR COMPRESSOR</p> <p>The air compressor will be a Cummins/WABCO with 25.9 cubic feet per minute output.</p>
0637583	Brake Reservoirs, 6,408 Cubic Inch Minimum Capacity, Saber FR/Enforcer	<p>BRAKE SYSTEM</p> <p>The brake system will include:</p> <ul style="list-style-type: none"> Brake treadle valve Heated automatic moisture ejector on air dryer Total air system capacity of 6,408 cubic inches Two (2) air pressure gauges with a red warning light and an audible alarm, that activates when air pressure falls below 60 psi Spring set parking brake system Parking brake operated by a push-pull style control valve A parking "brake on" indicator light on instrument panel Park brake relay/inversion and anti-compounding valve, in conjunction with a double check valve system, will be provided with an automatic spring brake application at 40 psi A pressure protection valve to prevent all air operated accessories from drawing air from the air system when the system pressure drops below 80 psi (550 kPa) 1/4 turn drain valves on each air tank <p>The air tank will be primed and painted to meet a minimum 750 hour salt spray test. To reduce the effects of corrosion, the air tank will be mounted with stainless steel brackets.</p>
0790412	Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	<p>BRAKE SYSTEM AIR DRYER</p> <p>The air dryer will be a WABCO System Saver 1200 IWT, with internal wet tank, spin-on coalescing filter cartridge and 100 watt heater.</p>
0000790	Brake Lines, Nylon	<p>BRAKE LINES</p> <p>Color-coded nylon brake lines will be provided. The lines will be wrapped in a heat protective loom in the chassis areas that are subject to excessive heat.</p>
0000858	Inlet/Outlet, Air, w/Disconnect Fitting	<p>AIR INLET/OUTLET</p> <p>One (1) air inlet/outlet will be installed with the female coupling located in the driver side lower step well of cab. This system will tie into the "wet" tank of the brake system and include a check valve in the inlet line and an 85 psi pressure protection valve in the outlet line. The air outlet will be controlled by a needle valve. A mating male fitting will be provided with the loose equipment. The air inlet will allow a shoreline air hose to be connected to the vehicle. This will allow station air to be supplied to the brake system of the vehicle to insure constant air pressure.</p>
0070810	All Wheel Lockup (Aerial/Tanker Chassis)	<p>ALL WHEEL LOCK-UP</p> <p>An additional all wheel lock-up system will be installed which applies air to the front brakes only. The standard spring brake control valve system will be used for the rear.</p>

0893805	Engine, Cummins X12, 525 hp, 1695 lb-ft, W/OBD, EPA 2021, Enforcer	<p>ENGINE The chassis will be powered by an electronically controlled engine as described below: Make: Cummins Model: X12 Power: 525 hp at 1900 rpm Torque: 1695 lb-ft at 1000 rpm Governed Speed: 2000 rpm Emissions Level: EPA 2021 Fuel: Diesel Cylinders: Six (6) Displacement: 729 cubic inches (11.9L) Starter: Delco 39MT™ Fuel Filters: Spin-on style primary filter with water separator and water-in-fuel sensor. Secondary spin-on style filter. The engine will include On-board diagnostics (OBD), which provides self diagnostic and reporting. The system will give the owner or repair technician access to state of health information for various vehicle sub systems. The system will monitor vehicle systems, engine and after treatment. The system will illuminate a malfunction indicator light on the dash console if a problem is detected.</p>
0730962	Filters, Remote Mounted, Oil, Fuel, X12, VEL/AXT, ENF, QTM	<p>REMOTE MOUNTED ENGINE FILTERS The engine fuel and oil filters will be remote mounted for ease of maintenance.</p>
0001244	High Idle w/Electronic Engine, Custom	<p>HIGH IDLE A high idle switch will be provided, inside the cab, on the instrument panel, that will automatically maintain a preset engine rpm. A switch will be installed, at the cab instrument panel, for activation/deactivation. The high idle will be operational only when the parking brake is on and the truck transmission is in neutral. A green indicator light will be provided, adjacent to the switch. The light will illuminate when the above conditions are met. The light will be labeled "OK to Engage High Idle."</p>
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine	<p>ENGINE BRAKE A Jacobs® engine brake is to be installed with the controls located on the instrument panel within easy reach of the driver. The driver will be able to turn the engine brake system on/off and have a high, medium and low setting. The engine brake will activate when the system is on and the throttle is released. The high setting of the brake application will activate and work simultaneously with the variable geometry turbo (VGT) provided on the engine. The engine brake will be installed in such a manner that when the engine brake is slowing the vehicle the brake lights are activated. The ABS system will automatically disengage the auxiliary braking device, when required.</p>
0644227	Clutch, Fan, Air Actuated, Saber FR/Enforcer	<p>CLUTCH FAN A fan clutch will be provided. The fan clutch will be automatic when the pump transmission is in "Road" position, and constantly engaged when in "Pump" position.</p>
0001302	Heater, 1500 Watt Immersion, Thermostatically Controlled	<p>ENGINE HEATER A 1,500 watt, 120 volt, immersion type engine heater will be installed with the AC power inlet located to the rear of the driver's door. The heater is thermostatically controlled.</p>
0644573	Air Intake, Water & Ember Screen, Saber FR/Enforcer	<p>ENGINE AIR INTAKE The engine air intake will be located above the engine cooling package. It will draw fresh air from the front of the apparatus through the radiator grille. The ember separator is designed to prevent road dirt and recirculating hot air from entering the engine. The ember separator will be easily accessible by tilting the cab.</p>

0794743		Exhaust System, 5", X12/X15, MX13, Engine, Horizontal, Right Side	EXHAUST SYSTEM The exhaust system will include a Single Module™ aftertreatment device to meet current EPA standards. The exhaust system will be stainless steel from the turbo to the inlet of the aftertreatment device, and will be 5.00" in diameter. An insulation wrap will be provided on all exhaust pipes between the turbo and aftertreatment device to minimize the heat loss to the aftertreatment device. The exhaust will terminate horizontally ahead of the right side rear wheels. A tailpipe diffuser will be provided to reduce the temperature of the exhaust as it exits. Heat deflector shields will be provided to isolate chassis and body components from the heat of the tailpipe diffuser.
0683310		Diffuser, Exhaust, Modified For Extraction, 5"x7"x5", Flush With Rub Rail, CARE	EXHAUST MODIFICATION The exhaust pipe will be 90 degrees to the body. The diffuser will be reduced to 5.00" in the center to accommodate the fire department's air recovery system. The 5.00" extension pipe coming out of the end of the diffuser will be flush with the body rub rail. There will be a minimum of 4.00" clearance between the top of the 5.00" extension and the bottom of the body. There will be a minimum of 2.50" from the exhaust pipe to the under side of the body heat shield. The last 7.00" of the exhaust will be free of hangers and/or clamps.
0788765		Radiator, Saber FR/Enforcer	RADIATOR The radiator and the complete cooling system will meet or exceed NFPA and engine manufacturer cooling system standards. For maximum corrosion resistance and cooling performance, the entire radiator core will be constructed using long life aluminum alloy. The radiator core will consist of aluminum fins, having a serpentine design, brazed to aluminum tubes. The radiator core will have a minimum front area of 1060 square inches. Supply tank will be made of heavy duty glass-reinforced nylon and the return tank will be made of aluminum. Both tanks will be crimped onto the core assembly using header tabs and a compression gasket to complete the radiator core assembly. There will be a full steel frame around the inserts to enhance cooling system durability and reliability. The radiator will be compatible with commercial antifreeze solutions. The radiator assembly will be isolated from the chassis frame rails with rubber isolators to prevent the development of leaks caused by twisting or straining when the apparatus operates over uneven terrain. The radiator will include a de-aeration/expansion tank. For visual coolant level inspection, the radiator will have a built-in sight glass. The radiator will be equipped with a 15 psi pressure relief cap. A drain port will be located at the lowest point of the cooling system and/or the bottom of the radiator to permit complete flushing of the coolant from the system. Shields or baffles will be provided to prevent recirculation of hot air to the inlet side of the radiator.
0001090		Cooling Hoses, Rubber	COOLANT LINES Gates, or Goodyear, rubber hose will be used for all engine coolant lines installed by Pierce Manufacturing. Hose clamps will be stainless steel constant torque type to prevent coolant leakage. They will expand and contract according to coolant system temperature thereby keeping a constant clamping pressure on the hose.
0802140	SP	Fuel Tank, 65 Gallon, Left Side Fill, Triangular Shaped Door, Latch	FUEL TANK A 65 gallon fuel tank will be provided and mounted at rear of chassis. The tank will be constructed of 12-gauge, hot rolled steel. It will be equipped with swash partitions and a vent. To eliminate the effects of corrosion, the fuel tank will be mounted with stainless steel straps. A 0.75" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be located on the left hand side of the body and be covered with a hinged, triangular shaped door painted job color and the latch will match the left side front of axle other air bottle doors, that is marked "Ultra Low Sulfur - Diesel Fuel Only." A 0.50" diameter vent will be provided running from top of tank to just below fuel fill inlet. The tank will meet all FHWA 393.67 requirements including a fill capacity of 95 percent of tank volume.
0001129		Lines, Fuel	All fuel lines will be provided as recommended by the engine manufacturer.
0752153	SP	DEF Tank, 4.5 Gallon, DS Fill, Fwd of Axle, Com Air Bottle Door, Painted Com	DIESEL EXHAUST FLUID TANK A 4.5 gallon diesel exhaust fluid (DEF) tank will be provided and mounted in the driver's side body forward of the rear axle. A 0.50" drain plug will be provided in a low point of the tank for drainage. A fill inlet will be provided and marked "Diesel Exhaust Fluid Only". The fill inlet will be located below the air bottle storage behind a common door on the driver side of the vehicle. The common door will be painted job color. The tank will meet the engine manufacturers requirement for 10 percent expansion space in the event of tank freezing. The tank will include an integrated heater unit that utilizes engine coolant to thaw the DEF in the event of freezing.
0723716		Fuel Priming Pump, Electronic, Automatic, Cummins, No Swt Req'd	FUEL PRIMING PUMP A Cummins automatic electronic fuel priming pump will be integrated as part of the engine.

0552712	Not Required, Shutoff Valve, Fuel Line	
0553019	Cooler, Engine Fuel, Imp/Vel, AXT/Qtm/Sab/DCF/SFR/Enf	FUEL COOLER An air to fuel cooler will be installed in the engine fuel return line.
0578959	Fuel/Water Separator, Racor Inline	FUEL SEPARATOR The engine will be equipped with a Racor in-line spin-on fuel and water separator in addition to the engine fuel filters.
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	TRANSMISSION An Allison 6th generation, Model EVS 4500P, electronic, torque converting, automatic transmission will be provided. The transmission will be equipped with prognostics to monitor oil life, filter life, and transmission health. A wrench icon on the shift selector's digital display will indicate when service is due. Two (2) PTO openings will be located on left side and top of converter housing (positions 8 o'clock and 1 o'clock). A transmission temperature gauge with red light and buzzer will be installed on the cab instrument panel.
0512762	Transmission, Shifter, 6-Spd, Push Button, 4500, Imp/Vel/Qtm/DCF/Enf	TRANSMISSION SHIFTER A six (6)-speed push button shift module will be mounted to right of driver on console. Shift position indicator will be indirectly lit for after dark operation. The transmission ratio will be: 1st - 4.70 to 1.00, 2nd - 2.21 to 1.00, 3rd - 1.53 to 1.00, 4th - 1.00 to 1.00, 5th - 0.76 to 1.00, 6th - 0.67 to 1.00, R - 5.55 to 1.00.
0684459	Transmission Oil Cooler, Modine, External	TRANSMISSION COOLER A Modine plate and fin transmission oil cooler will be provided using engine coolant to control the transmission oil temperature.
0565656	Fluid, 4000/4500 Series Transmission, TranSynd synthetic, IPOS, Custom	TRANSMISSION FLUID The transmission will be provided with TranSynd heavy duty synthetic transmission fluid.
0001375	Driveline, Spicer 1810	DRIVELINE Drivelines will be a heavy-duty metal tube and be equipped with Spicer® 1810 universal joints. The shafts will be dynamically balanced before installation. A splined slip joint will be provided in each driveshaft where the driveline design requires it. The slip joint will be coated with Glidecoat® or equivalent.
0669988	Steering, Sheppard M110 w/Tilt, TAK-4, Eaton Pump, w/Cooler	STEERING Dual Sheppard, Model M110, steering gears, with integral heavy-duty power steering, will be provided. For reduced system temperatures, the power steering will incorporate an air to oil cooler and an Eaton, Model VN20, hydraulic pump with integral pressure and flow control. All power steering lines will have wire braded lines with crimped fittings. A tilt and telescopic steering column will be provided to improve fit for a broader range of driver configurations.
0802950	Steering Wheel, 4 Spoke w/Wiper Control, Saber FR/Enforcer	STEERING WHEEL The steering wheel will be 18.00" in diameter, have tilting and telescoping capabilities, and a four (4)-spoke design. There will be a switch pod provided on the left side of the steering wheel between the spokes. The switch pods will be an integral part of the steering wheel. The following switches will be provided: Windshield wash Wiper intermittent speed increase Wiper intermittent speed decrease Hi/Lo wiper speed Wiper off
0559647	Pierce Logo on Horn Button	

0606555	Bumper, 13" Extended, Steel Painted, 8.00" High, Saber FR/Enforcer	<p>BUMPER A one (1) piece steel painted bumper, minimum of 8.00" high, will be attached to the front of the frame. The bumper will be metal finished and painted to match the apparatus. To provide adequate support strength, the bumper will be mounted directly to the front of the C channel frame. The frame will be a bolted modular extension frame constructed of 50,000 psi tensile steel. The bumper will be extended 13.00" from front face of cab.</p> <p>Gravel Pan A gravel pan, constructed of bright aluminum treadplate, will be furnished between the bumper and cab face. The gravel pan will be properly supported from the underside to prevent flexing and vibration of the aluminum treadplate. The sides of the gravel pan will provide a transition between the bottom of the bumper and the bottom of the cab.</p>
0630210	No Selection Required, Cover Selected in Bumper Accessories	
0614646	No Lift & Tow Package, Imp/Vel, AXT, SFR/Enf	
0005739	Tow Eyes, Chrome, Chicago Style, Top of Deck	<p>TOW EYES Two (2) Chicago style tow eyes will be mounted through the top of the bumper extension. The tow eyes will be designed and positioned to allow up to a 6,000 lb straight horizontal pull in line with the centerline of the vehicle. The tow eyes will not be used for lifting of the apparatus. The inner and outer edges of the tow eyes will have a .25" radius. The tow eyes will be chrome plated.</p>

CAB

The Enforcer cab will be designed specifically for the fire service and manufactured by the chassis builder.

The cab will be built by the apparatus manufacturer in a facility located on the manufacturer's premises.

For reasons of structural integrity and enhanced occupant protection, the cab will be a heavy duty design, constructed to the following minimal standards.

The cab will have 12 main vertical structural members located in the A-pillar (front cab corner posts), B-pillar (side center posts), C-pillar (rear corner posts), and rear wall areas. The A-pillar will be constructed of solid A356-T5 aluminum castings. The B-pillar and C-pillar will be constructed from 0.13" wall extrusions. The rear wall will be constructed of two (2) 2.00" x 2.00" outer aluminum extrusions and two (2) 2.00" x 1.00" inner aluminum extrusions. All main vertical structural members will run from the floor to 4.625" x 3.864" x 0.090" thick roof extrusions to provide a cage-like structure with the A-pillar and roof extrusions being welded into a 0.25" thick corner casting at each of the front corners of the roof assembly.

The front of the cab will be constructed of a 0.13" firewall plate, covered with a 0.090" front skin (for a total thickness of 0.22"), and reinforced with a full width x 0.50" thick cross-cab support located just below the windshield and fully welded to the engine tunnel. The cross-cab support will run the full width of the cab and weld to each A-pillar, the 0.13" firewall plate, and the front skin.

The cab floors will be constructed of 0.125" thick aluminum plate and reinforced at the firewall with an additional 0.25" thick cross-floor support providing a total thickness of 0.375" of structural material at the front floor area. The front floor area will also be supported with two (2) triangular 0.30" wall extrusions that also provides the mounting point for the cab lift. This tubing will run from the floor wireway of the cab to the engine tunnel side plates, creating the structure to support the forces created when lifting the cab.

The cab will be 96.00" wide (outside door skin to outside door skin) to maintain maximum maneuverability.

The overall height (from the cab roof to the ground) of approximately 99.00". The overall height listed will be calculated based on a truck configuration with the lowest suspension weight rating, the smallest diameter tires for the suspension, no water weight, no loose equipment weight, and no personnel weight. Larger tires, wheels, and suspension will increase the overall height listed. The floor to ceiling height inside the crew cab will be 54.50" in the center and outboard positions. The crew cab floor will measure 46.00" from the rear wall to the back side of the rear facing seat risers.

The medium block engine tunnel, at the rearward highest point (knee level), will measure 61.50" to the rear wall. The big block engine tunnel will measure 51.50" to the rear wall.

The crew cab will be a totally enclosed design with the interior area completely open to improve visibility and verbal communication between the occupants.

The cab will be a full tilt cab style.

A 3-point cab mount system with rubber isolators will improve ride quality by isolating chassis vibrations from the cab.

CAB ROOF DRIP RAIL

For enhanced protection from inclement weather, a drip rail will be furnished on the sides of the cab. The drip rail will be painted to match the cab roof, and bonded to the sides of the cab. The drip rail will extend the full length of the cab roof.

INTERIOR CAB INSULATION

The cab will include 1.00" insulation in the ceiling, 1.50" insulation in the side walls, and 2.00" insulation in the rear wall to maximize acoustic absorption and thermal insulation.

FENDER LINERS

Full circular inner fender liners in the wheel wells will be provided.

PANORAMIC WINDSHIELD

A one (1)-piece safety glass windshield will be provided with over 2,775 square inches of clear viewing area. The windshield will be full width and will provide the occupants with a panoramic view. The windshield will consist of three (3) layers: outer light, middle safety laminate, and inner light. The outer light layer will provide superior chip resistance. The middle safety laminate layer will prevent the windshield glass pieces from detaching in the event of breakage. The inner light will provide yet another chip resistant layer. The cab windshield will be bonded to the aluminum windshield frame using a urethane adhesive. A custom frit pattern will be applied on the outside perimeter of the windshield for a finished automotive appearance.

WINDSHIELD WIPERS

Three (3) electric windshield wipers with washer will be provided that meet FMVSS and SAE requirements.

The washer reservoir will be able to be filled without raising the cab.

0747442

Engine Tunnel, X12, MX13, Enforcer

ENGINE TUNNEL

Engine hood side walls will be constructed of 0.375" aluminum. The top will be constructed of 0.125" aluminum and will be tapered at the top to allow for more driver and passenger elbow room.

The engine hood will be insulated for protection from heat and sound. The noise insulation keeps the dBA level within the limits stated in the current NFPA 1901 standards.

The engine tunnel will be no higher than 17.00" off the crew cab floor.

0633594

Rear Wall, Interior, Adjustable Seating

INTERIOR CREW CAB REAR WALL ADJUSTABLE SEATING (PATENT PENDING)

The interior rear wall of the crew cab will have mounting holes every 2.75" to allow for adjustability of the forward facing crew cab seating along the rear wall. Seats will be adjustable with use of simple hand tools allowing departments flexibility of their seating arrangement should their department needs change.

0632103

Rear Wall, Exterior, Cab, Saber FR/Enforcer

CAB REAR WALL EXTERIOR COVERING

The exterior surface of the rear wall of the cab will be overlaid with bright aluminum treadplate except for areas that are not typically visible when the cab is lowered.

0639727	Cab Lift, Elec/Hyd, Manual Override, Saber FR/Enforcer	<p>CAB LIFT A hydraulic cab lift system will be provided consisting of an electric powered hydraulic pump, dual lift cylinders, and necessary hoses and valves. Hydraulic pump will have a manual override for backup in the event of electrical failure. Lift controls will be located on the right side pump panel or front area of the body in a convenient location. The cab will be capable of tilting 43 degrees to accommodate engine maintenance and removal. The cab will be locked down by a 2-point normally closed spring loaded hook type latch that fully engages after the cab has been lowered. The system will be hydraulically actuated to release the normally closed locks when the cab lift control is in the raised position and cab lift system is under pressure. When the cab is completely lowered and system pressure has been relieved, the spring loaded latch mechanisms will return to the normally closed and locked position. The hydraulic cylinders will be equipped with a velocity fuse that protects the cab from accidentally descending when the control is located in the tilt position. For increased safety, a redundant mechanical stay arm will be provided that must be manually put in place on the left side between the chassis and cab frame when the cab is in the raised position. This device will be manually stowed to its original position before the cab can be lowered.</p> <p>Cab Lift Interlock The cab lift system will be interlocked to the parking brake. The cab tilt mechanism will be active only when the parking brake is set and the ignition switch is in the on position. If the parking brake is released, the cab tilt mechanism will be disabled.</p>
0695930	Grille, Bright Finished, Front of Cab, Enforcer	<p>GRILLE A bright finished aluminum mesh grille screen, inserted behind a bright finished grille surround, will be provided on the front center of the cab.</p>
0643412	Seal, Caulk Top Edge, Exterior Cab Rear Wall	<p>CAULK TOP EDGE OF REAR WALL SCUFFPLATE The top edge of the scuffplate on the back wall of the cab will be caulked to prevent water from leaking behind it.</p>
0647932	Not Required, Trim, S/S Band, Across Cab Face, AXT/Dash CF/Saber/Enforcer	
0015440	No Chrome Molding, On side of cab	
0521669	Mirrors, Retractable, West Coast Style, Htd/Rmt, w/Htd/Rmt Convex	<p>MIRRORS A Retractable, Model 613423, dual vision, motorized, west coast style mirror, with chrome finish, will be mounted on each side of the front cab door with spring loaded retractable arms. The flat glass and convex glass will be heated and adjustable with remote control within reach of the driver.</p>
0648171	Door, Half-Height, Saber FR/Enforcer 4-Door Cab, Level Roof	<p>DOORS To enhance entry and egress to the cab, the forward cab door openings will be a minimum of 37.50" wide x 63.37" high. The crew cab doors will be located on the sides of the cab and will be constructed in the same manner as the forward cab doors. The crew cab door openings will be a minimum of 34.30" wide x 63.37" high. The forward cab and crew cab doors will be constructed of extruded aluminum with a nominal material thickness of 0.093". The exterior door skins will be constructed from 0.090" aluminum. A customized, vertical, pull-down type door handle will be provided on the exterior of each cab door. The finish of the door handle will be chrome/black. The exterior handle will be designed specifically for the fire service to prevent accidental activation, and will provide 4.00" wide x 2.00" deep hand clearance for ease of use with heavy gloved hands. Each door will also be provided with an interior flush, open style paddle handle that will be readily operable from fore and aft positions, and be designed to prevent accidental activation. The interior handles will provide 4.00" wide x 1.25" deep hand clearance for ease of use with heavy gloved hands. The cab doors will be provided with both interior (rotary knob) and exterior (keyed) locks exceeding FMVSS standards. The keys will be Model 751. The locks will be capable of activating when the doors are open or closed. The doors will remain locked if locks are activated when the doors are opened, then closed. A full length, heavy duty, stainless steel, piano-type hinge with a 0.38" pin and 11 gauge leaf will be provided on all cab doors. There will be double automotive-type rubber seals around the perimeter of the door framing and door edges to ensure a weather-tight fit. A chrome handle will be provided on the inside of each cab door for ease of entry. A red webbed grab handle will be installed on the crew cab door stop strap. The grab handles will be securely mounted. The bottom cab step at each cab door location will be located below the cab doors and will be exposed to the exterior of the cab.</p>
0655543	Door Panel, Brushed Stainless Steel, Saber/Enforcer 4-Door Cab	<p>Door Panels The inner cab door panels will be constructed out of brushed stainless steel.</p>

0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber FR/Enforcer	<p>ELECTRIC OPERATED CAB DOOR WINDOWS All four (4) cab doors will be equipped with electric operated windows with one (1) flush mounted automotive style switch on each door. The driver's door will have four (4) switches, one (1) to control each door window. Each switch will allow intermittent or auto down operation for ease of use. Auto down operation will be actuated by holding the window down switch for approximately 1 second.</p>
0633615	Steps, 4-Door Cab, Reduced Bottom Step, Saber FR/Enforcer	<p>CAB STEPS The forward cab and crew cab access steps will be a full size two (2) step design to provide largest possible stepping surfaces for safe ingress and egress. The bottom steps will be designed with a grip pattern punched into bright aluminum treadplate material to provide support, slip resistance, and drainage. The bottom steps will be a bolt-in design to minimize repair costs should they need to be replaced. The forward cab steps will be a minimum 25.00" wide, and the crew cab steps will be 21.65" wide with an 8.00" minimum depth. The inside cab steps will not exceed 16.50" in height. The vertical surfaces of the step well will be aluminum treadplate.</p>
0770194	Handrail, Exterior, Knurled, Alum, 4-Door Cab	<p>CAB EXTERIOR HANDRAILS A 1.25" diameter slip-resistant, knurled aluminum handrail will be provided adjacent to each cab and crew cab door opening to assist during cab ingress and egress.</p>
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	<p>STEP LIGHTS There will be six (6) white LED step lights with chrome housing installed for cab and crew cab access steps. One (1) light for the left access steps. Two (2) lights for the left side crew cab access steps. Two (2) lights for the right side crew cab access steps. One (1) light for the right side access step. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The lights will be activated when the battery switch is on and the adjacent door is opened.</p>
0583698	Fenders, S/S on cab, Extra Wide, Saber/Enf	<p>FENDER CROWNS Stainless steel fender crowns will be installed at the cab wheel openings.</p>
0042105	No Windows, Side of Crew Cab	
0663689	Liner, Brushed Stainless Steel, Removable, Wheelwell, Cab	<p>REMOVABLE WHEELWELL LINER A full depth brushed stainless steel liner, as large as structurally possible, will be provided on both cab wheel wells. The liner will be removable. The liner will be bolted to the wheelwell with stainless steel screws.</p>
0722796	Dash, Poly, Saber FR/Enforcer	<p>CAB DASH The driver side dash, switch panel located to the right of the driver, and center console will be an easily removable high impact resistant polymer cover. The instrument gauge cluster will be surrounded with a high impact ABS plastic contoured to the same shape of the instrument gauge cluster. The officer side dash will be a flat top design with an upper beveled edge to provide easy maintenance and will be constructed out of aluminum and painted to match the cab interior.</p>
0607217	Mounting Provisions, 3/16" Alum, Full Engine Tunnel, Saber FR/Enforcer	<p>MOUNTING PLATE ON ENGINE TUNNEL Equipment installation provisions will be installed on the engine tunnel. A 0.188" smooth aluminum plate will be bolted to the top surface of the engine tunnel. The plate will follow the contour of the engine tunnel and will run the entire length of the engine tunnel. The plate will be spaced off the engine tunnel .50" to allow for wire routing below the plate. The mounting surface will be painted to match the cab interior.</p>

0750824	Cab Interior, Vinyl Headliner, Saber FR/Enforcer, CARE	<p>CAB INTERIOR The cab interior will be constructed of primarily metal (painted aluminum) to withstand the severe duty cycles of the fire service. The engine tunnel will be padded and covered, on the top and sides, with gray Turnout Tuff fabric. For durability and ease of maintenance, the cab interior side walls will be painted aluminum. The rear wall will be painted aluminum. The headliner will be installed in both forward and rear cab sections. Headliner material will be vinyl. A sound barrier will be part of its composition. Material will be installed on an aluminum sheet and securely fastened to interior cab ceiling. The forward portion of the cab headliner will permit easy access for service of electrical wiring or other maintenance needs. All wiring will be placed in metal raceways.</p> <p>CAB INTERIOR UPHOLSTERY The cab interior upholstery will be 36 oz dark silver gray vinyl.</p>
0753903	Cab Interior, Paint Color, Saber FR/Enforcer	<p>CAB INTERIOR PAINT The cab interior metal surfaces, excluding the rear heater panels, will be painted fire smoke gray, vinyl texture paint. The rear heater panels will be painted black, vinyl textured paint.</p>
0052100	Floor, Rubber Padded, Cab & Crew Cab, Saber/Enforcer	<p>CAB FLOOR The cab and crew cab floor areas will be covered with Polydamp™ acoustical floor mat consisting of a black pyramid rubber facing and closed cell foam decoupler. The top surface of the material has a series of raised pyramid shapes evenly spaced, which offer a superior grip surface. Additionally, the material has a 0.25" thick closed cell foam (no water absorption) which offers a sound dampening material for reducing sound levels.</p>
0722696	HVAC, Enforcer, CARE	<p>DEFROST/AIR CONDITIONING SYSTEM A ceiling mounted combination heater, defroster and air conditioning system will be installed in the cab above the engine tunnel area.</p> <p>Cab Defroster A 54,000 BTU heater-defroster unit with 690 SCFM of air flow will be provided inside the cab. The heater-defrost will be installed in the forward portion of the cab ceiling. Air outlets will be strategically located in the cab header extrusion per the following: One (1) adjustable will be directed towards the left side cab window One (1) adjustable will be directed towards the right side cab window Six (6) fixed outlets will be directed at the windshield The defroster will be capable of clearing 98 percent of the windshield and side glass when tested under conditions where the cab has been cold soaked at 0 degrees Fahrenheit for 10 hours, and a 2 ounce per square inch layer of frost/ice has been able to build up on the exterior windshield. The defroster system will meet or exceed SAE J382 requirements.</p> <p>Cab/Crew Auxiliary Heater There will be one (1) 31,000 BTU auxiliary heater with 560 SCFM of air flow provided in each outboard rear facing seat risers with a dual scroll blower. An aluminum plenum incorporated into the cab structure used to transfer heat to the forward positions.</p> <p>Air Conditioning A condenser will be a 59,644 BTU output that meets and exceeds the performance specification will be mounted on the radiator. The air conditioning system will be capable of cooling the average cab temperature from 100 degrees Fahrenheit to 75 degrees Fahrenheit at 50 percent relative humidity within 30 minutes. The cooling performance test will be run only after the cab has been heat soaked at 100 degrees Fahrenheit for a minimum of 4 hours. The evaporator unit will be installed in the rear portion of the cab ceiling over the engine tunnel. The evaporator will include one (1) high performance heating core, one (1) high performance cooling core with (1) plenum directed to the front and one (1) plenum directed to the rear of the cab. The rear plenum will be covered with a formed plastic cover. The evaporator unit will have a 52,000 BTU at 690 SCFM rating that meets and exceeds the performance specifications. Adjustable air outlets will be strategically located on the forward plenum cover per the following: Four (4) will be directed towards the seating position on the left side of the cab Four (4) will be directed towards the seating position on the right side of the cab Adjustable air outlets will be strategically located on the rear plenum cover per the following: Minimum of five (5) will be directed towards crew cab area A high efficiency particulate air (HEPA) filter will be included for the system. Access to the filter cover will be secured with four (4) screws. The air conditioner refrigerant will be R-134A and will be installed by a certified technician.</p> <p>Climate Control An automotive style controller will be provided to control the heat and air conditioning system within the cab. The controller will have three (3) functional knobs for fan speed, temperature, and air flow distribution (front to rear) control. The system will control the temperature of the cab and crew cab automatically by pushing the center of the fan speed control knob. Rotate the center temperature control knob to set the cab and crew cab temperature. The AC system will be manually activated by pushing the center of the temperature control knob. Pushing the center of the air flow distribution knob will engage the AC for max defrost, setting the fan speeds to 100 percent and directing all air flow to the overhead forward position. The system controller will be located within panel position #12.</p> <p>Gravity Drain Tubes Two (2) condensate drain tubes will be provided for the air conditioning evaporator. The drip pan will have two (2) drain tubes plumbed separately to allow for the condensate to exit the drip pan. No pumps will be provided.</p>

0639675	Sun Visor, Smoked Lexan, AXT, Imp/Vel, Saber FR/Enforcer	<p>SUN VISORS Two (2) smoked Lexan™ sun visors will be provided. The sun visors will be located above the windshield with one (1) mounted on each side of the cab. There will be no retention bracket provided to help secure each sun visor in the stowed position.</p>
0634328	Grab Handles, Driver and Officer Door Posts, Saber FR/Enforcer	<p>GRAB HANDLES A black rubber covered grab handle will be mounted on the door post of the driver and officer's side cab door to assist in entering the cab. The grab handles will be securely mounted to the post area between the door and windshield.</p>
0002526	Light, Engine Compt, All Custom Chassis	<p>ENGINE COMPARTMENT LIGHT An engine compartment light will be installed under the engine hood, of which the switch is an integral part. Light will have a .125" diameter hole in its lens to prevent moisture retention.</p>
0631830	Fluid Check Access, Saber FR/Enforcer, Arrow XT	<p>ACCESS TO ENGINE DIPSTICKS For access to the engine oil and transmission fluid dipsticks, there will be a door on the engine tunnel, inside the crew cab. The door will be on the rear wall of the engine tunnel, on the vertical surface. The engine oil dipstick will allow for checking only. The transmission dipstick will allow for both checking and filling. The door will have a rubber seal for thermal and acoustic insulation. One (1) flush lift and turn latch will be provided on the access door.</p>
0583039	Not Required, Side Roll and Frontal Impact Protection	
0622619	Seating Capacity, 4 Seats	<p>SEATING CAPACITY The seating capacity in the cab will be four (4).</p>
0632962	Seat, Driver, Bostrom, Sierra, Air Ride, High Back, Saber FR/Enforcer	<p>DRIVER SEAT A H.O. Bostrom, Sierra, air suspension high back seat will be provided in the cab for the driver. For increased convenience, the seat will include a manual control to adjust the horizontal position (5.50" travel). To provide flexibility for multiple driver configurations, the seat will have a reclining back, adjustable from 15 degrees back to 45 degrees forward. The seat will include no additional zip clean covers. The seat will be furnished with a 3-point, shoulder type seat belt.</p>
0632918	Seat, Officer, Bostrom 450, Fixed, SCBA, Saber FR/Enforcer	<p>OFFICER SEAT A H.O. Bostrom, Tanker 450, SCBA fixed seat will be provided in the cab for the officer. For optimal comfort, the seat will be provided with 17.00" deep cushion. The seat back will be an SCBA back style with a 5 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.50" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location. The seat will include no additional zip clean covers. The seat will be furnished with a 3-point, shoulder type seat belt.</p>
0620420	Radio Compartment, Below Non-Air Ride Seat, Saber FR/Enforcer	<p>RADIO COMPARTMENT A radio compartment will be provided under the officer's seat. The inside compartment dimensions will be 16.00" wide x 7.50" high x 15.00" deep, with the back of the compartment angled up to match the cab structure. A drop-down door with one (1) lift and turn latch will be provided for access. The compartment will be constructed of smooth aluminum and painted to match the cab interior.</p>

0738138	SP	Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Roll, Sp H Ext Acc, SFR/Enf	<p>REAR FACING LEFT SIDE CABINET</p> <p>A rear facing cabinet will be provided in the crew cab at the left side outboard position. The cabinet will be 23.00" wide x 40.25" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening will be 16.00" wide x 35.00" high. The minimum clear door opening of the cabinet will be 13.25" wide x 29.12" high. The cabinet will include one (1) infinitely adjustable shelf with a 0.75" up-turned lippainted to match the cab interior.</p> <p>The cabinet will include no louvers.</p> <p>The cabinet will also provide access from outside the cab with a one (1) double pan door painted to match the cab exterior with a non-locking D-ring latch. A web strap will be provided as a door stop. The door will be located on the side of the cab over the wheelwell. The exterior clear door opening will be 17.00" wide x 26.00" high.</p> <p>The exterior access will be provided with a polished stainless steel scuffplate on the lower door frame.</p> <p>The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.</p> <p>Cabinet Light</p> <p>There will be one (1) white Amdor LED strip light installed on the right side of the interior cabinet door opening and one (1) white Amdor LED strip light installed on the left side of the interior cabinet door opening. The lighting will be controlled by an automatic door switch.</p>
0102783		Not Required, Seat, Rr Facing C/C, Center	
0738137	SP	Cabinet, Rear Facing, RS, 22 W x 40.25 H x 26.75 D, Roll, Sp H Ext Acc, SFR/Enf	<p>REAR FACING RIGHT SIDE CABINET</p> <p>A rear facing cabinet will be provided in the crew cab at the right side outboard position. The cabinet will be 22.00" wide x 40.25" high x 26.75" deep with one (1) Amdor rollup door with anodized finish, non-locking. The frame to frame opening will be 15.00" wide x 35.00" high. The minimum clear door opening of the cabinet will be 12.25" wide x 29.12" high. The cabinet will include one (1) infinitely adjustable shelf with a 0.75" up-turned lippainted to match the cab interior.</p> <p>The cabinet will include no louvers.</p> <p>The cabinet will also provide access from outside the cab with one (1) double pan door painted to match the cab exterior with a non-locking D-ring latch. A web strap will be provided as a door stop. The door will be located on the side of the cab over the wheelwell. The exterior clear door opening will be 17.00" wide x 26.00" high.</p> <p>The exterior access will be provided with a polished stainless steel scuffplate on the lower door frame.</p> <p>The cabinet will be constructed of smooth aluminum, and painted to match the cab interior.</p> <p>Cabinet Light</p> <p>There will be one (1) white Amdor LED strip light installed on the right side of the interior cabinet door opening and one (1) white Amdor LED strip light installed on the left side of the interior cabinet door opening. The lighting will be controlled by an automatic door switch.</p>
0108189		Not Required, Seat, Forward Facing C/C, DS Outboard	
0632603		Seat, Forward Facing C/C, Center, (2) Bostrom 400CT, SCBA, Saber FR/Enforcer	<p>FORWARD FACING CENTER SEATS</p> <p>There will be two (2) forward facing, HO Bostrom Tanker 400CT SCBA seats provided at the center position in the crew cab. For optimal comfort, the seats will be provided with 15.00" deep cushions.</p> <p>The seat backs will be an SCBA back style with a 0 degree fixed recline angle. The SCBA cavity will be adjustable from front to rear in 1.50" increments, to accommodate different sized SCBA cylinders. Moving the SCBA cavity will be accomplished by unbolting, relocating, and re-bolting it in the desired location.</p> <p>The seat will include no additional zip clean covers.</p> <p>The seats will be furnished with a 3-point, shoulder type seat belt.</p>
0108190		Not Required, Seat, Forward Facing C/C, PS Outboard	
0007968		Upholstery, Seats In Cab, All Dura-Wear, Bostrom	<p>SEAT UPHOLSTERY</p> <p>All seat upholstery will be gray woven with black Dura-Wear, waterproof fabric.</p>
0677039		Bracket, Air Bottle, Bostrom "SecureAll", Cab Seats, Bostrom Only	<p>AIR BOTTLE HOLDERS</p> <p>There will be three (3) SCBA type seats in the cab with Bostrom SecureAll SCBA locking holder brackets installed directly into the Bostrom seats. The brackets will be compliant with NFPA 1901 Section 14.1.10.1.</p>
0004431		Inserts, Back Rest For Bostrom SCBA Seats	<p>BACK REST INSERTS</p> <p>Provided with the Bostrom SCBA seats will be back rest inserts which covers the SCBA cavity. The insert covers will be padded and covered with same material as the seat. A total of three (3) inserts covers will be provided.</p>

0603866	Seat Belt, Dual Retractor, ReadyReach, Saber FR/Enforcer	<p>SEAT BELTS</p> <p>All cab and tiller cab (if applicable) seating positions will have red seat belts. To provide quick, easy use for occupants wearing bunker gear, the female buckle and seat belt webbing length will meet or exceed the current edition of NFPA 1901 and CAN/ULC - S515 standards.</p> <p>The 3-point shoulder type seat belts will include height adjustment. This adjustment will optimize the belts effectiveness and comfort for the seated firefighter. The 3-point shoulder type seat belts will be furnished with dual automatic retractors that will provide ease of operation in the normal seating position.</p> <p>The 3-point shoulder type belts will also include the ReadyReach D-loop assembly to the shoulder belt system. The ReadyReach feature adds an extender arm to the D-loop location placing the D-loop in a closer, easier to reach location.</p> <p>Any flip up seats will include a 3-point shoulder type belts only.</p> <p>To ensure safe operation, the seats will be equipped with seat belt sensors in the seat cushion and belt receptacle that will activate an alarm indicating a seat is occupied but not buckled.</p>
0602464	Helmet Storage, Provided by Fire Department, NFPA 2016	<p>HELMET STORAGE PROVIDED BY FIRE DEPARTMENT</p> <p>NFPA 1901, 2016 edition, section 14.1.7.4.1 requires a location for helmet storage be provided. There is no helmet storage on the apparatus as manufactured. The fire department will provide a location for storage of helmets.</p>
0647647	Lights, Dome, FRP Dual LED 4 Lts	<p>CAB DOME LIGHTS</p> <p>There will be four (4) dual LED dome lights with grey bezels provided. Two (2) lights will be mounted above the inside shoulder of the driver and officer and two (2) lights will be installed and located, one (1) on each side of the crew cab.</p> <p>The color of the LED's will be red and white.</p> <p>The white LED's will be controlled by the door switches and the lens switch.</p> <p>The color LED's will be controlled by the lens switch.</p> <p>In order to ensure exceptional illumination, each white LED dome light will provide a minimum of 10.1 foot-candles (fc) covering an entire 20.00" x 20.00" square seating position when mounted 40.00" above the seat.</p>
0896451	Enhanced Software for Cab and Crew Cab Dome Lts	<p>ENHANCED SOFTWARE FOR CAB AND CREW CAB DOME LIGHTS</p> <p>The cab and crew cab dome lights will remain on for 10 seconds for improved visibility after the doors are closed.</p> <p>The dome lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.</p>
0602623	Portable Hand Light, Provided by Fire Dept, Aerial NFPA 2016 Classification	<p>PORTABLE HAND LIGHTS, PROVIDED BY FIRE DEPARTMENT</p> <p>NFPA 1901, 2016 edition, section 8.9.3 requires four portable hand lights mounted in brackets fastened to the apparatus.</p> <p>The hand lights are not on the apparatus as manufactured. The fire department will provide and mount these hand lights.</p>
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	<p>CAB INSTRUMENTATION</p> <p>The cab instrument panel include gauges, an LCD display, telltale indicator lamps, control switches, alarms, and a diagnostic panel. The function of the instrument panel controls and switches will be identified by a label adjacent to each item. Actuation of the headlight switch will illuminate the labels in low light conditions. Telltale indicator lamps will not be illuminated unless necessary. The cab instruments and controls will be conveniently located within the forward cab section, forward of the driver. The gauge assembly and switch panels are designed to be removable for ease of service and low cost of ownership.</p> <p>Gauges</p> <p>The gauge panel will include the following ten (10) black faced gauges with black bezels to monitor vehicle performance:</p> <p>Voltmeter gauge (volts):</p> <ul style="list-style-type: none"> Low volts (11.8 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly High volts (15.5 VDC) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly Very low volts (11.3 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly Very high volts (16.0 VDC) Red warning indicator on the information center with a steady alarm Amber caution light on gauge assembly Engine Tachometer (RPM) Speedometer MPH (Major Scale), KM/H (Minor Scale) Fuel level gauge (Empty - Full in fractions): Low fuel (1/8 full) Amber caution indicator on the information center with intermittent alarm Amber caution light on gauge assembly Very low fuel (1/32 full) Red caution indicator on the information center with steady alarm Amber caution light on gauge assembly Engine Oil pressure Gauge (PSI): Low oil pressure to activate engine warning lights and alarms Red caution indicator on the information center with steady alarm Amber caution light on gauge assembly

Front Air Pressure Gauges (PSI):
Low air pressure to activate warning lights and alarm
Red warning indicator on the information center with a steady alarm
Amber caution light on gauge assembly
Rear Air Pressure Gauges (PSI):
Low air pressure to activate warning lights and alarm
Red warning indicator on the information center with a steady alarm
Amber caution light on gauge assembly
Transmission Oil Temperature Gauge (Fahrenheit):
High transmission oil temperature activates warning lights and alarm
Amber caution indicator on the information center with intermittent alarm
Amber caution light on gauge assembly
Engine Coolant Temperature Gauge (Fahrenheit):
High engine temperature activates an engine warning light and alarms
Amber caution indicator on the information center with intermittent alarm
Amber caution light on gauge assembly
Diesel Exhaust Fluid Level Gauge (Empty - Full in fractions):
Low fluid (1/8 full)
Amber indicator light in gauge dial
All gauges will perform prove out at initial power-up to ensure proper performance.

Indicator Lamps

To promote safety, the following telltale indicator lamps will be located on the instrument panel in clear view of the driver. The indicator lamps will be "dead-front" design that is only visible when active. The colored indicator lights will have descriptive text or symbols.

The following amber telltale lamps will be present:

Low coolant
Trac cntl (traction control) (where applicable)
Check engine
Check trans (check transmission)
Aux brake overheat (Auxiliary brake overheat)
Air rest (air restriction)
Caution (triangle symbol)
Water in fuel
DPF (engine diesel particulate filter regeneration)
Trailer ABS (where applicable)
Wait to start (where applicable)
HET (engine high exhaust temperature) (where applicable)
ABS (antilock brake system)
MIL (engine emissions system malfunction indicator lamp) (where applicable)
Side roll fault (where applicable)
Front air bag fault (where applicable)

The following red telltale lamps will be present:

Warning (stop sign symbol)
Seat belt
Parking brake
Stop engine
Rack down

The following green telltale lamps will be provided:

Left turn
Right turn
Battery on

The following blue telltale lamp will be provided:

High beam

Alarms

Audible steady tone warning alarm: A steady audible tone alarm will be provided whenever a warning message is present.

Audible pulsing tone caution alarm: A pulsing audible tone alarm (chime/chirp) will be provided whenever a caution message is present without a warning message being present.

Alarm silence: Any active audible alarm will be able to be silenced by holding the ignition switch at the top position for three (3) to five (5) seconds. For improved safety, silenced audible alarms will intermittently chirp every 30 seconds until the alarm condition no longer exists. The intermittent chirp will act as a reminder to the operator that a caution or warning condition still exists. Any new warning or caution condition will enable the steady or pulsing tones respectively.

Indicator Lamp and Alarm Prove-Out

A system will be provided which automatically tests telltale indicator lights and alarms located on the cab instrument panel. Telltale indicators and alarms will perform prove-out at initial power-up to ensure proper performance.

Control Switches

For ease of use, the following controls will be provided immediately adjacent to the cab instrument panel within easy reach of the driver. All switches will have backlit labels for low light applications.

Headlight/Parking light switch: A three (3)-position maintained rocker switch will be provided. The first switch position will deactivate all parking and headlights. The second switch position will activate the parking lights. The third switch will activate the headlights.

Panel back lighting intensity control switch: A three (3)-position momentary rocker switch will be provided. Pressing the top half of the switch, "Panel Up" increases the panel back lighting intensity and pressing the bottom half of the switch, "Panel Down" decreases the panel back lighting intensity. Pressing the half or bottom half of the switch several times will allow back lighting intensity to be gradually varied from minimum to maximum intensity level for ease of use.

Ignition switch: A three (3)-position maintained/momentary rocker switch will be provided. The first switch position will turn off and deactivate vehicle ignition. The second switch position will activate vehicle ignition and will perform prove-out on the telltale indicators and alarms for 3 to 5 seconds after the switch is turned on. A green indicator lamp is activated with vehicle ignition. The third momentary position will temporarily silence all active cab alarms. An alarm "chirp" may continue as long as alarm condition exists. Switching ignition to off position will terminate the alarm silence feature and reset

function of cab alarm system.

Engine start switch: A two (2)-position momentary rocker switch will be provided. The first switch position is the default switch position. The second switch position will activate the vehicle's engine. The switch actuator is designed to prevent accidental activation.

Hazard switch will be provided on the instrument panel or on the steering column.

Heater, defroster, and air conditioning control panel.

Turn signal arm: A self-canceling turn signal with high beam headlight controls will be provided.

Windshield wiper control will have high, low and intermittent modes.

Parking brake control: An air actuated push/pull park brake control valve will be provided. Chassis horn control: Activation of the chassis horn control will be provided through the center of the steering wheel.

High idle engagement switch: A momentary rocker switch with integral indicator lamp will be provided. The switch will activate and deactivate the high idle function. The "OK To Engage High Idle" indicator lamp must be active for the high idle function to engage. A green indicator lamp integral to the high idle engagement switch will indicate when the high idle function is engaged.

"OK To Engage High Idle" indicator lamp: A green indicator light will be provided next to the high idle activation switch to indicate that the interlocks have been met to allow high idle engagement.

Emergency switching will be controlled by multiple individual warning light switches for various groups or areas of emergency warning lights. An Emergency Master switch provided on the instrument panel that enables or disables all individual warning light switches is included.

An additional "Emergency Master" button will be provided on the lower left hand corner of the gauge panel to allow convenient control of the "Emergency Master" system from inside the driver's door when standing on the ground.

Custom Switch Panels

The design of cab instrumentation will allow for emergency lighting and other switches to be placed within easy reach of the operator thus improving safety. There will be positions for up to four (4) switch panels in the lower instrument console and up to six (6) switch panels in the overhead visor console. All switches have backlit labels for low light conditions.

Diagnostic Panel

A diagnostic panel will be accessible while standing on the ground and located inside the driver's side door left of the steering column. The diagnostic panel will allow diagnostic tools such as computers to connect to various vehicle systems for improved troubleshooting providing a lower cost of ownership. Diagnostic switches will allow ABS systems to provide blink codes should a problem exist.

The diagnostic panel will include the following:

Engine diagnostic port

Transmission diagnostic port

ABS diagnostic port

Roll sensor diagnostic port

Command Zone USB diagnostic port

ABS diagnostic switch (blink codes flashed on ABS telltale indicator)

Diesel particulate filter regeneration switch (where applicable)

Diesel particulate filter regeneration inhibit switch (where applicable)

Cab LCD Display

A digital four (4)-row by 20-character dot matrix display will be integral to the gauge panel.

The display will be capable of showing simple graphical images as well as text. The display will be split into three (3) sections. Each section will have a dedicated function.

The upper left section will display the outside ambient temperature.

The upper right section will display the following, along with other configuration specific information:

Odometer

Trip mileage

PTO hours

Fuel consumption

Engine hours

The bottom section will display INFO, CAUTION, and WARNING messages. Text messages will automatically activate to describe the cause of an audible caution or warning alarm.

The LCD will be capable of displaying multiple text messages should more than one caution or warning condition exist.

0509511 Air Restriction Indicator, Imp/Vel, AXT, Dash CF, Enf MUX

AIR RESTRICTION INDICATOR

A high air restriction warning indicator light LCD message with amber warning indicator and audible alarm will be provided.

0668061 Light, Do Not Move Apparatus, Wln VTX609R Red LED

"DO NOT MOVE APPARATUS" INDICATOR

There will be a Whelen, Model VTX609R, red LED indicator light with chrome trim located in the driving compartment. This light will be illuminated automatically per the current NFPA requirements. The light will be labeled "Do Not Move Apparatus If Light Is On."

The same circuit that activates the Do Not Move Apparatus indicator will activate a steady tone alarm when the parking brake is released.

0509042	Messages, Open Dr/DNMT, Color Dsply,	<p>DO NOT MOVE TRUCK MESSAGES</p> <p>Messages will be displayed on the Command Zone™, color display located within sight of the driver whenever the Do Not Move Truck light is active. The messages will designate the item or items not in the stowed for vehicle travel position (parking brake disengaged). The following messages will be displayed (where applicable):</p> <p>Do Not Move Truck DS Cab Door Open (Driver Side Cab Door Open) PS Cab Door Open (Passenger's Side Cab Door Open) DS Crew Cab Door Open (Driver Side Crew Cab Door Open) PS Crew Cab Door Open (Passenger's Side Crew Cab Door Open) DS Body Door Open (Driver Side Body Door Open) PS Body Door Open (Passenger's Side Body Door Open) Rear Body Door Open DS Ladder Rack Down (Driver Side Ladder Rack Down) PS Ladder Rack Down (Passenger Side Ladder Rack Down) Deck Gun Not Stowed Lt Tower Not Stowed (Light Tower Not Stowed) Fold Tank Not Stowed (Fold-A-Tank Not Stowed) Aerial Not Stowed (Aerial Device Not Stowed) Stabilizer Not Stowed Steps Not Stowed Handrail Not Stowed</p> <p>Any other device that is opened, extended, or deployed that creates a hazard or is likely to cause major damage to the apparatus if the apparatus is moved will be displayed as a caution message after the parking brake is disengaged.</p>
0622798	Switching, Cab Instrument Lower Console & Overhead, Rocker MUX, Enforcer	<p>SWITCH PANELS</p> <p>The built-in switch panels will be located in the lower console or overhead console of the cab. The switches will be rocker-type and include an integral indicator light. For quick, visual indication the switch will be illuminated whenever the switch is active. A 2-ply, scratch resistant laser engraved Gravoply label indicating the use of each switch will be placed below the switches. The label will allow light to pass through the letters for improved visibility in low light conditions. Switches and light source are integral to the switch panel assembly.</p>
0802946	Wiper Control, 2-Speed w/Intermittent, Steering Wheel, Left Pod, SFR/Enf	<p>WIPER CONTROL</p> <p>Wiper control will consist of a two (2)-speed windshield wiper control with intermittent feature and windshield washer controls. The control will be located in the left hand pod of the steering wheel.</p>
0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT, ASP	<p>HOURLMETER - AERIAL DEVICE</p> <p>The following aerial hour meter messages will be included in the information centers: Aerial Hours, that keeps track of the time the aerial device is in motion. Aerial PTO Hours, that keeps track of the time the aerial master switch is on and the aerial PTO is engaged.</p>
0002615	Switch, Aerial 12V Master	<p>AERIAL MASTER</p> <p>There will be a master switch for the aerial operating electrical system provided.</p>
0002617	PTO switch, w/light - aerial	<p>AERIAL PTO SWITCH</p> <p>A PTO switch for the aerial with indicator light will be provided.</p>
0568733	Wiring, Spare, 5 A 12V DC 1st	<p>SPARE CIRCUIT</p> <p>There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be protected to 5 amps at 12 volts DC. Power and ground will terminate over head switch panel, passenger side. Termination will be with heat shrinkable butt splicing. Wires will be sized to 125% of the protection. This circuit(s) may be load managed when the parking brake is set.</p>
0548004	Wiring, Spare, 15 A 12V DC 1st	<p>SPARE CIRCUIT</p> <p>There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power The negative wire will be connected to ground Wires will be protected to 15 amps at 12 volts DC Power and ground will terminate one (1) in the instrument panel per IP layout Termination will be with 15 amp, power point plug with rubber cover Wires will be sized to 125 percent of the protection The circuit(s) may be load managed when the parking brake is set.</p>

0548006	Wiring, Spare, 15 A 12V DC 2nd	<p>SPARE CIRCUIT There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 15 amps at 12 volts DC. Power and ground will terminate passenger side overhead switch panel. Termination will be with heat shrinkable butt splicing. Wires will be sized to 125 percent of the protection. This circuit(s) may be load managed when the parking brake is set.</p>
0610968	Wiring, Spare, 2.0 A 12V DC, USB Termination Blue Sea 1016 1st	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 2.0 amps at 12 volts DC. Power and ground will terminate per IP Layout Officer side. Termination will be a Blue Sea Systems part number 1016 dual USB charger socket. Wires will be sized to 125 percent of the protection. This circuit(s) may be load managed when the parking brake is applied.</p>
0602586	Wiring, Spare, 2.0 A 12V DC, USB Termination Blue Sea 1016 2nd	<p>SPARE CIRCUIT There will be two (2) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 2.0 amps at 12 volts DC. Power and ground will terminate one (1) per Drivers side, one (1) on rear wall down low top of seat riser between (2) forward facing rear SCBA seat. Match #35556. Termination will be a Blue Sea Systems part number 1016 dual USB charger socket. Wires will be sized to 125 percent of the protection. This circuit(s) may be load managed when the parking brake is applied.</p>
0585914	Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025 1st	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery switched power. The negative wire will be connected to ground. Wires will be protected to 20 amps at 12 volts DC. Power and ground will terminate behind the officer seat, refer to job #35556. Termination will be to a Blue Sea System, Model 5025, 6 circuit with negative bus bar. The terminal block will include a cover with circuit labels. Wires will be sized to 125% of the protection. This circuit(s) may be load managed when the parking brake is set.</p>
0657222	Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block, Blue Sea 5026 1st	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 20 amps at 12 volts DC. Power and ground will terminate Forward wall, when looking into compartment upper rear left corner LS4 with 18" pigtail. Termination will be to a Blue Sea System, Model 5026, 12 circuit with negative bus bar, straight blade fuse block. The terminal block will include a cover with circuit labels. Wires will be sized to 125% of the protection. This circuit(s) may be load managed when the parking brake is set.</p>
0641696	Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block, Blue Sea 5026 2nd	<p>SPARE CIRCUIT There will be one (1) pair of wires, including a positive and a negative, installed on the apparatus. The above wires will have the following features: The positive wire will be connected directly to the battery power. The negative wire will be connected to ground. Wires will be protected to 20 amps at 12 volts DC. Power and ground will terminate Forward wall, when looking into compartment upper rear right corner RS4 with 18" pigtail. Termination will be to a Blue Sea System, Model 5026, 12 circuit with negative bus bar, straight blade fuse block. The terminal block will include a cover with circuit labels. Wires will be sized to 125% of the protection. This circuit(s) may be load managed when the parking brake is set.</p>

0764088	Wiring, Spare, 47.5 A 12V DC, Cust Install Radio, 40A Bat Dir, 7.5A Sw & Grnd	<p>CUSTOMER SUPPLIED RADIO WIRING</p> <p>There will be one (1) 12 volt combination wiring leads of which each will include one (1) direct battery, one (1) master battery switched and one (1) negative for use with radio equipment. Each lead will be 18.00" long and be provided Radio compartment below Officer seat. The leads will be clearly marked in a coil and terminate with butt splices.</p> <p>A breaker rated for 40 amps will be provided for circuit protection of the direct battery lead with a minimum of 8 gauge wire.</p> <p>A breaker rated for 7.5 amps will be provided for circuit protection of the master battery switched lead.</p> <p>The wires will be colored coded as follows: red for direct battery yellow for master battery switched black for ground</p>
0803875	Radio, AM/FM/WB, Jensen, Frt,Rear Aux In/Frt,Rear USB/Bluetooth	<p>STEREO RADIO</p> <p>A Jensen, heavy duty AM/FM / Bluetooth / Weatherband stereo radio, with front and rear auxiliary input will be installed within reach of the driver. There will be 5.25" speakers installed one (1) pair of 5.25" speakers in the cab and one (1) pair of 5.25" speakers in the crew cab. The antenna will be a roof-mounted rubber antenna located in an open space, on the cab roof.</p> <p>The following features will be included:</p> <ul style="list-style-type: none"> - 180 watts max power output (45W x 4) - Bluetooth® streaming audio and controls (A2DP/AVRCP) with hands-free calling (HFP) - Electronic AM/FM tuner (US/Euro) - iPod®/iPhone® ready via USB - SiriusXM-Ready® - Seven-channel NOAA weatherband with S.A.M.E. technology - USB 2.0 for playback of MP3 & WMA audio files - RBDS with PTY search - Front and rear USB input - Front and rear AUX input
0615386	Vehicle Information Center, 7" Color Display, Touchscreen, MUX	<p>INFORMATION CENTER</p> <p>An information center employing a 7.00" diagonal touch screen color LCD display will be encased in an ABS plastic housing.</p> <p>The information center will have the following specifications: Operate in temperatures from -40 to 185 degrees Fahrenheit An Optical Gel will be placed between the LCD and protective lens Five weather resistant user interface switches Grey with black accents Sunlight Readable Linux operating system Minimum of 1000nits rated display Display can be changed to an available foreign language A LCD display integral to the cab gauge panel will be included as outlined in the cab instrumentation area. Programmed to read US Customary</p> <p>General Screen Design</p> <p>Where possible, background colors will be used to provide "At a Glance" vehicle information. If information provided on a screen is within acceptable limits, a green background will be used. If a caution or warning situation arises the following will occur: An amber background/text color will indicate a caution condition A red background/text color will indicate a warning condition</p> <p>The information center will utilize an "Alert Center" to display text messages for audible alarm tones. The text messages will be written to identify the item(s) causing the audible alarm to sound. If more than one (1) text message occurs, the messages will cycle every second until the problem(s) have been resolved. The background color for the "Alert Center" will change to indicate the severity of the "warning" message. If a warning and a caution condition occur simultaneously, the red background color will be shown for all alert center messages.</p> <p>A label for each button will exist. The label will indicate the function for each active button for each screen. Buttons that are not utilized on specific screens will have a button label with no text or symbol.</p> <p>Home/Transit Screen</p> <p>This screen will display the following: Vehicle Mitigation (if equipped) Water Level (if the water level system includes compatible communications to the information center) Foam Level (if the foam level system includes compatible communications to the information center) Seat Belt Monitoring Screen Tire Pressure Monitoring (if equipped) Digital Speedometer Active Alarms</p> <p>On Scene Screen</p> <p>This screen will display the following and will be auto activated with pump engaged (if equipped): Battery Voltage Fuel Oil Pressure Coolant Temperature RPM Water Level (if equipped) Foam Level (if equipped) Foam Concentration (if equipped) Water Flow Rate (if equipped)</p>

Water Used (if equipped)

Active Alarms

Virtual Buttons

There will be four (4) virtual switch panel screens that match the overhead and lower lighting and HVAC switch panels.

Page Screen

The page screen will display the following and allow the user to progress into other screens for further functionality:

Diagnostics

Faults

Listed by order of occurrence

Allows to sort by system

Interlock

Throttle Interlocks

Pump Interlocks (if equipped)

Aerial Interlocks (if equipped)

PTO Interlocks (if equipped)

Load Manager

A list of items to be load managed will be provided. The list will provide a description of the load.

The lower the priority numbers the earlier the device will be shed should a low voltage condition occur.

The screen will indicate if a load has been shed (disabled) or not shed.

"At a glance" color features are utilized on this screen.

Systems

Command Zone

Module type and ID number

Module Version

Input or output number

Circuit number connected to that input or output

Status of the input or output

Power and Constant Current module diagnostic information

Foam (if equipped)

Pressure Controller (if equipped)

Generator Frequency (if equipped)

Live Data

General Truck Data

Maintenance

Engine oil and filter

Transmission oil and filter

Pump oil (if equipped)

Foam (if equipped)

Aerial (if equipped)

Setup

Clock Setup

Date & Time

12 or 24 hour format

Set time and date

Backlight

Daytime

Night time

Sensitivity

Unit Selection

Home Screen

Virtual Button Setup

On Scene Screen Setup

Configure Video Mode

Set Video Contrast

Set Video Color

Set Video Tint

Do Not Move

The screen will indicate the approximate location and type of item that is open or is not stowed for travel. The actual status of the following devices will be indicated

Driver Side Cab Door

Passenger's Side Cab Door

Driver Side Crew Cab Door

Passenger's Side Crew Cab Door

Driver Side Body Doors

Passenger's Side Body Doors

Rear Body Door(s)

Ladder Rack (if applicable)

Deck Gun (if applicable)

Light Tower (if applicable)

Hatch Door (if applicable)

Stabilizers (if applicable)

Steps (if applicable)

Notifications

View Active Alarms

Shows a list of all active alarms including date and time of the occurrence is shown with each alarm

Silence Alarms - All alarms are silenced

Timer Screen

HVAC (if equipped)

Tire Information (if equipped)

Ascendant Set Up Confirmation (if equipped)

Button functions and button labels may change with each screen.

0734857	Collision Mitigation, HAAS Alert (R2V), HA5	<p>COLLISION MITIGATION</p> <p>There will be a HAAS Alert®, Model HA5 Responder-to-Vehicle (R2V) collision avoidance system provided on the apparatus. The HA5 cellular transponder module will be installed behind the cab windshield, as high and near to the center as practical, to allow clear visibility to the sky. The module dimensions are 5.40" long x 2.70" wide x 1.30" high, and operating temperature range is -40 degree C to 85 degree C.</p> <p>The transponder will be connected to the vehicle's emergency master circuit and battery direct power and ground.</p> <p>While responding with emergency lights on, the HA5 transponder sends alert messages via cellular network to motorists in the vicinity of the responding truck that are equipped with the WAZE app.</p> <p>While on scene with emergency lights on, the HA5 transponder sends road hazard alerts to motorists in the vicinity of the truck that are equipped with the WAZE app.</p> <p>The HA5 Responder-to-Vehicle (R2V) collision avoidance system will include the transponder and a 5 year cellular plan subscription.</p> <p>Activation of the HAAS Alert system requires a representative of the customer to accept the End User License Agreement (EULA) via an on-line portal.</p>
0606247	Vehicle Data Recorder w/CZ Display Seat Belt Monitor	<p>VEHICLE DATA RECORDER</p> <p>There will be a vehicle data recorder (VDR) capable of reading and storing vehicle information provided.</p> <p>The information stored on the VDR can be downloaded through a USB port mounted in a convenient location determined by cab model. A USB cable can be used to connect the VDR to a laptop to retrieve required information. The program to download the information from the VDR will be available to download on-line.</p> <p>The vehicle data recorder will be capable of recording the following data via hardwired and/or CAN inputs:</p> <ul style="list-style-type: none"> Vehicle Speed - MPH Acceleration - MPH/sec Deceleration - MPH/sec Engine Speed - RPM Engine Throttle Position - % of Full Throttle ABS Event - On/Off Seat Occupied Status - Yes/No by Position Seat Belt Buckled Status - Yes/No by Position Master Optical Warning Device Switch - On/Off Time - 24 Hour Time Date - Year/Month/Day <p>Seat Belt Monitoring System</p> <p>A seat belt monitoring system (SBMS) will be provided on the Command Zone™ color display. The SBMS will be capable of monitoring up to 10 seating positions indicating the status of each seat position per the following:</p> <ul style="list-style-type: none"> Seat Occupied & Buckled = Green LED indicator illuminated Seat Occupied & Unbuckled = Red LED indicator with audible alarm No Occupant & Buckled = Red LED indicator with audible alarm No Occupant & Unbuckled = No indicator and no alarm <p>The seat belt monitoring screen will become active on the Command Zone color display when:</p> <ul style="list-style-type: none"> The home screen is active: and there is any occupant seated but not buckled or any belt buckled with an occupant. and there are no other Do Not Move Apparatus conditions present. As soon as all Do Not Move Apparatus conditions are cleared, the SBMS will be activated. <p>The SBMS will include an audible alarm that will warn that an unbuckled occupant condition exists and the parking brake is released, or the transmission is not in park.</p>
0606226	Signal, Recordable, VDR, Silence Alarm, AXT MUX, DCF, SFR/Enf, Imp/Vel, Qtm	<p>Vehicle Data Recordable Input</p> <p>When the VDR is active, the seat belt monitoring system alarm will be silenced through the standard silence alarm switch. The alarm will chirp in intervals to remind the operator that an alarm is still sounding.</p>
0689156	Intercom, Sigtronics US-45D, 4-pos, 2 Dual-Radio, D,O,2C	<p>INTERCOM SYSTEM</p> <p>A four (4) position Sigtronics, Model US-45D, intercom system with dual radio interface capability for the driver and officer will be provided. Two (2) crew cab positions, located at both forward facing seats, will have radio listen / intercom only capabilities.</p> <p>System includes:</p> <ul style="list-style-type: none"> One (1) US-45D Intercom Four (4) Interior Headset Jacks, enclosed in blue mounting boxes Two (2) Push-to-Transmit switches, enclosed in blue mounting boxes All necessary cabling and mounting provisions
0009063	Not Required, Radio Interface	<p>RADIO INTERFACE NOT REQUIRED</p> <p>The apparatus manufacturer will not provide a radio/intercom interface.</p>

0568105	Headset, Sigtronics, SE-8 Under Helmet, Flex Mic, Standard	<p>HEADSET, UNDER HELMET</p> <p>There will be four (4) Sigtronics, Model SE-8, under helmet, standard headset(s) provided ship loose.</p> <p>Each headset will feature:</p> <ul style="list-style-type: none"> Coiled cord with single nickel coated plug Noise cancelling electret microphone with wind muff Flexible microphone boom rotates 180 degrees for left or right dress Gel filled earseals Volume control 24 dB noise reduction
0681408	Hangers For Headsets, NFPA, Each	<p>HEADSET HANGERS</p> <p>There will be four (4) headset hanger(s) installed driver's seat, officer's seat, driver's side inboard forward facing seat and passenger's side inboard forward facing seat. The hanger(s) will meet NFPA 1901, Section 14.1.11, requirement for equipment mounting.</p>
0696438	Antenna Mount, Custom Chassis, Cable Routed to Radio Box	<p>RADIO ANTENNA MOUNT</p> <p>There will be two (2) standard 1.125", 18 thread antenna-mounting base(s) installed Radio box below officer seat on the cab roof with high efficiency, low loss, coaxial cable(s) routed to the radio box. A weatherproof cap will be installed on the mount.</p>
0755515	Camera, Pierce, Drivers Mux Display, R, RS Cameras	<p>VEHICLE CAMERA SYSTEM</p> <p>There will be a color vehicle camera system provided with the following:</p> <ul style="list-style-type: none"> One (1) camera located at the rear of the apparatus, pointing rearward, displayed automatically with the vehicle in reverse One (1) camera located on the right side of the apparatus, pointing rearward, displayed automatically with the right side turn signal <p>The camera images will be displayed on the driver's vehicle information center display. Audio from the microphone on the rear camera will be emitted by an amplified speaker with volume control in the blank panel to the right of the steering column.</p> <p>The following components will be included:</p> <ul style="list-style-type: none"> One (1) SV-CW134639CAI Camera One (1) CS134404CI Side camera One (1) Amplified speaker (if applicable) <p>All necessary cables</p>
0890416	Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT	<p>ELECTRICAL POWER CONTROL SYSTEM</p> <p>The primary power distribution will be located forward of the officer's seating position and be easily accessible while standing on the ground for simplified maintenance and troubleshooting. Additional electrical distribution centers will be provided throughout the vehicle to house the vehicle's electrical power, circuit protection, and control components. The electrical distribution centers will be located strategically throughout the vehicle to minimize wire length. For ease of maintenance, all electrical distribution centers will be easily accessible. All distribution centers containing fuses, circuit breakers and/or relays will be easily accessible. Distribution centers located throughout the vehicle will contain battery powered studs for supplying customer installed equipment thus providing a lower cost of ownership. Circuit protection devices, which conform to SAE standards, will be utilized to protect electrical circuits. All circuit protection devices will be rated per NFPA requirements to prevent wire and component damage when subjected to extreme current overload. General protection circuit breakers will be Type-I automatic reset (continuously resetting). When required, automotive type fuses will be utilized to protect electronic equipment. Control relays and solenoid will have a direct current rating of 125 percent of the maximum current for which the circuit is protected per NFPA.</p> <p>Solid-State Control System</p> <p>A solid-state electronics based control system will be utilized to achieve advanced operation and control of the vehicle components. A fully computerized vehicle network will consist of electronic modules, electronic control modules to include black housings, a power indicator and status indicator located near their point of use to reduce harness lengths and improve reliability. The control system will comply with SAE J1939-11 recommended practices.</p> <p>The control system will operate as a master-slave system whereas the main control module instructs all other system components. The system will contain patented Mission Critical software that maintains critical vehicle operations in the unlikely event of a main controller error. The system will utilize a Real Time Operating System (RTOS) fully compliant with OSEK/VDX™ specifications providing a lower cost of ownership.</p> <p>For increased reliability and simplified use the control system modules will include the following attributes:</p> <ul style="list-style-type: none"> Green LED indicator light for module power Red LED indicator light for network communication stability status Control system self test at activation and continually throughout vehicle operation No moving parts due to transistor logic Software logic control for NFPA mandated safety interlocks and indicators Integrated electrical system load management without additional components Integrated electrical load sequencing system without additional components Customized control software to the vehicle's configuration Factory and field programmable to accommodate changes to the vehicle's operating parameters <p>To assure long life and operation in a broad range of environmental conditions, the solid-state control system modules will meet the following specifications:</p> <ul style="list-style-type: none"> Module circuit board will meet SAE J771 specifications Operating temperature from -40C to +70C Storage temperature from -40C to +70C Vibration to 50g IP67 rated enclosure (Totally protected against dust and also protected against the effect of

temporary immersion between 15 centimeters and one (1) meter)

Operating voltage from eight (8) volts to 32 volts DC

The main controller will activate status indicators and audible alarms designed to provide warning of problems before they become critical.

Circuit Protection and Control Diagram

Copies of all job-specific, computer network input and output (I/O) connections will be provided with each chassis. The sheets will indicate the function of each module connection point, circuit protection information (where applicable), wire numbers, wire colors and load management information.

On-Board Electrical System Diagnostics

The on-board information center will include the following diagnostic information:

Text description of active warning or caution alarms

Simplified warning indicators

Amber caution indication with intermittent alarm

Red warning indication with steady tone alarm

Advanced diagnostic feature will be provided in this control system. From the Command Zone display or connected wireless device, these features allow the user to monitor the real-time status of every input or output on the vehicle. It also allows users logged in as an administrator to force on inputs or outputs to assist the troubleshooting process.

TCU Module with WiFi

An in cab module will provide WiFi wireless interface and data logging capability. The WiFi interface will comply with IEEE 802.11 b/g/n capabilities while communicating at 2.4 Gigahertz. The module will communicate through a black WiFi antenna allowing a line of site communication range of up to 300 feet with a roof mounted antenna.

The module will transmit a password protected web page to a WiFi enabled device (i.e. most smart phones, tablets or laptops) allowing two levels of user interaction. The firefighter level will allow vehicle monitoring of the vehicle and firefighting systems on the apparatus. The technician level will allow diagnostic access to inputs and outputs installed on the Command Zone™, control and information system.

The TCU capability will record faults from the engine, transmission, ABS and Command Zone™, control and information systems as they occur. No other data will be recorded at the time the fault occurs. The data TCU will provide up to 2 Gigabytes of data storage.

The TCU will provide a means to download the TCU information and update software in the device.

Indicator Light and Alarm Prove-Out System

A system will be provided which automatically tests basic indicator lights and alarms located on the cab instrument panel.

Voltage Monitor System

A voltage monitoring system will be provided to indicate the status of the battery system connected to the vehicle's electrical load. The system will provide visual and audible warning when the system voltage is below or above optimum levels.

The alarm will activate if the system falls below 11.8 volts DC for more than two (2) minutes.

Dedicated Radio Equipment Connection Points

There will be three (3) studs provided in the primary power distribution center located in front of the officer for two-way radio equipment. The studs will consist of the following:

12-volt 40-amp battery switched power

12-volt 60-amp ignition switched power

12-volt 60-amp direct battery power

There will also be a 12-volt 100-amp ground stud located in or adjacent to the power distribution center.

EMI/RFI Protection

To prevent erroneous signals from crosstalk contamination and interference, the electrical system will meet, at a minimum, SAE J551/2, thus reducing undesired electromagnetic and radio frequency emissions. An advanced electrical system will be used to ensure radiated and conducted electromagnetic interference (EMI) or radio frequency interference (RFI) emissions are suppressed at their source.

The apparatus will have the ability to operate in the electromagnetic environment typically found in fire ground operations to ensure clean operations. The electrical system will meet, without exceptions, electromagnetic susceptibility conforming to SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter. The vehicle OEM, upon request, will provide EMC testing reports from testing conducted on an entire apparatus and will certify that the vehicle meets SAE J551/2 and SAE J1113/25 Region 1, Class C EMR for 10KHz-1GHz to 100 Volts/Meter requirements. Component and partial (incomplete) vehicle testing is not adequate as overall vehicle design can impact test results and thus is not acceptable by itself.

EMI/RFI susceptibility will be controlled by applying appropriate circuit designs and shielding. The electrical system will be designed for full compatibility with low-level control signals and high-powered two-way radio communication systems. Harness and cable routing will be given careful attention to minimize the potential for conducting and radiated EMI/RFI susceptibility.

0896456

Prognostics, Electrical System

ELECTRICAL SYSTEM PROGNOSTICS

There will be a software based vehicle tool provided to predict remaining life of the vehicles critical fluid and events.

The system will send automatic indications to the Command Zone™ information center and/or wireless enabled devices to proactively alert of upcoming service intervals.

Prognostics will include the following:

Engine oil and filter

Transmission oil and filter

TELEMATICS SYSTEM

There will be a cellular based vehicle telematics system consisting of a Telematic Control Unit (TCU) with external cellular WiFi and GPS antenna, and access to a web-based user interface portal provided.

The TCU will be fully integrated into the Command Zone™ electrical system. It will monitor the vehicle through the CAN data bus and transmit data through a secure 4G LTE cellular connection, and be provided with a 3 year subscription..

After accepting the end user license agreement, the vehicle administrator will have access to vehicle location information and vehicle data via a secure CZ Connect web-based interface portal.

The CZ Connect web-based interface will allow users to access vehicle data and configure monitoring tools, providing a global view of the location of each connected asset and a summary of fleet data, which include:

User defined interval notifications

User defined fault alerts

Remote access to Command Zone diagnostics

Vehicle analytics and activity monitoring

Vehicle system status

ELECTRICAL

All 12-volt electrical equipment installed by the apparatus manufacturer will conform to modern automotive practices. All wiring will be high temperature crosslink type. Wiring will be run, in loom or conduit, where exposed and have grommets where wire passes through sheet metal.

Automatic reset circuit breakers will be provided which conform to SAE Standards. Wiring will be color, function and number coded. Function and number codes will be continuously imprinted on all wiring harness conductors at 2.00" intervals. Exterior exposed wire connectors will be positive locking, and environmentally sealed to withstand elements such as temperature extremes, moisture and automotive fluids.

Electrical wiring and equipment will be installed utilizing the following guidelines:

All holes made in the roof will be caulked with silicon. Large fender washers, liberally caulked, will be used when fastening equipment to the underside of the cab roof.

Any electrical component that is installed in an exposed area will be mounted in a manner that will not allow moisture to accumulate in it. Exposed area will be defined as any location outside of the cab or body.

Electrical components designed to be removed for maintenance will not be fastened with nuts and bolts. Metal screws will be used in mounting these devices. Also a coil of wire will be provided behind the appliance to allow them to be pulled away from mounting area for inspection and service work.

Corrosion preventative compound will be applied to all terminal plugs located outside of the cab or body. All non-waterproof connections will require this compound in the plug to prevent corrosion and for easy separation (of the plug).

All lights that have their sockets in a weather exposed area will have corrosion preventative compound added to the socket terminal area.

All electrical terminals in exposed areas will have silicon (1890) applied completely over the metal portion of the terminal.

All lights and reflectors, required to comply with Federal Motor Vehicle Safety Standard #108, will be furnished. Rear identification lights will be recessed mounted for protection. Lights and wiring mounted in the rear bulkheads will be protected from damage by installing a false bulkhead inside the rear compartments.

An operational test will be conducted to ensure that any equipment that is permanently attached to the electrical system is properly connected and in working order.

The results of the tests will be recorded and provided to the purchaser at time of delivery.

BATTERY SYSTEM

There will be six (6) 12 volt Exide®, Model 31S950X3W, batteries that include the following features will be provided:

950 CCA, cold cranking amps

190 amp reserve capacity

High cycle

Group 31

Rating of 5700 CCA at 0 degrees Fahrenheit

1140 minutes of reserve capacity

Threaded stainless steel studs

Each battery case will be a black polypropylene material with a vertically ribbed container for increased vibration resistance. The cover will be manifold vented with a central venting location to allow a 45 degree tilt capacity.

The inside of each battery will consist of a "maintenance free" grid construction with poly wrapped separators and a flooded epoxy bottom anchoring for maximum vibration resistance.

BATTERY SYSTEM

There will be a single starting system with an ignition switch and starter button provided and located on the cab instrument panel.

MASTER BATTERY SWITCH

There will be a master battery switch provided within the cab within easy reach of the driver to activate the battery system.

An indicator light will be provided on the instrument panel to notify the driver of the status of the battery system.

0002698	Battery Compartment, Saber/Enforcer	<p>BATTERY COMPARTMENTS Batteries will be placed on non-corrosive mats and stored in well ventilated compartments located under the cab. Heavy-duty, 2/0 gauge, color coded battery cables will be provided. Battery terminal connections will be coated with anti-corrosion compound. Battery solenoid terminal connections will be encapsulated with semi-permanent rubberized compound.</p> <p>JUMPER STUDS One (1) set of battery jumper studs with plastic color-coded covers will be included on the battery compartments.</p>
0531313	Charger, Sngl Sys, IOTA, DSL 55, 55 amp, Kussmaul 091-94-12 Indicator	<p>BATTERY CHARGER An IOTA, Model DLS-55, 55 amp battery charger will be provided. The battery charger will be wired to the 120-volt shoreline to activate automatically when power is connected. There will be a Kussmaul, Model 091-94-12, remote indicator.</p>
0786339	Location, Charger, Cab Behind Driver Seat, Saber FR/Enforcer	Battery charger will be located in the cab behind the driver's seat.
0530949	Location, Bat Chrg Ind, Driver's Seat Riser	The battery charger indicator will be located on the driver's seat riser.
0016857	Shoreline, 20A 120V, Kussmaul Auto Eject, 091-55-20-120, Super	<p>AUTO EJECT FOR SHORELINE There will be one (1) Kussmaul™, Model 091-55-20-120, 20 amp 120 volt AC shoreline inlet(s) provided to operate the dedicated 120 volt AC circuits on the apparatus. The shoreline inlet(s) will include red weatherproof flip up cover(s). There will be a release solenoid wired to the vehicle's starter to eject the AC connector when the engine is starting. The shoreline(s) will be connected to battery charger and block heater. There will be a mating connector body supplied with the loose equipment. There will be a label installed near the inlet(s) that state the following: Line Voltage Current Rating (amps) Phase Frequency</p>
0026800	Shoreline Location	The shoreline receptacle will be located in the driver side lower step well of cab.
0647728	Alternator, 430 amp, Delco Remy 55SI	<p>ALTERNATOR A Delco Remy®, Model 55SI, alternator will be provided. It will have a rated output current of 430 amps, as measured by SAE method J56. The alternator will feature an integral regulator and rectifier system that has been tested and qualified to an ambient temperature of 257 degrees Fahrenheit (125 degrees Celsius). The alternator will be connected to the power and ground distribution system with heavy-duty cables sized to carry the full rated alternator output.</p>

ELECTRONIC LOAD MANAGER

An electronic load management (ELM) system will be provided that monitors the vehicles 12-volt electrical system, automatically reducing the electrical load in the event of a low voltage condition, and automatically restoring the shed electrical loads when a low voltage condition expires. This ensures the integrity of the electrical system.

For improved reliability and ease of use, the load manager system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load management tasks. Load management systems which require additional components will not be allowed.

The system will include the following features:

System voltage monitoring.

A shed load will remain inactive for a minimum of five minutes to prevent the load from cycling on and off.

Sixteen available electronic load shedding levels.

Priority levels can be set for individual outputs.

High Idle to activate before any electric loads are shed and deactivate with the service brake.

If enabled:

"Load Man Hi-Idle On" will display on the information center.

Hi-Idle will not activate until 30 seconds after engine start up.

Individual switch "on" indicator to flash when the particular load has been shed.

The information center indicates system voltage.

The information center, where applicable, includes a "Load Manager" screen indicating the following:

Load managed items list, with priority levels and item condition.

Individual load managed item condition:

ON = not shed

SHED = shed

SEQUENCER

A sequencer will be provided that automatically activates and deactivates vehicle loads in a preset sequence thereby protecting the alternator from power surges. This sequencer operation will allow a gradual increase or decrease in alternator output, rather than loading or dumping the entire 12 volt load to prolong the life of the alternator.

For improved reliability and ease of use, the load sequencing system will be an integral part of the vehicle's solid state control system requiring no additional components to perform load sequencing tasks. Load sequencing systems which require additional components will not be allowed.

Emergency light sequencing will operate in conjunction with the emergency master light switch.

When the emergency master switch is activated, the emergency lights will be activated one by one at half-second intervals. Sequenced emergency light switch indicators will flash while waiting for activation.

When the emergency master switch is deactivated, the sequencer will deactivate the warning light loads in the reverse order.

Sequencing of the following items will also occur, in conjunction with the ignition switch, at half-second intervals:

Cab Heater and Air Conditioning

Crew Cab Heater (if applicable)

Crew Cab Air Conditioning (if applicable)

Exhaust Fans (if applicable)

Third Evaporator (if applicable)

0783153

Headlights, Rect LED, JW Spkr Evo 2, AXT/DCF/Enf/Imp/Sab/Vel

HEADLIGHTS

There will be four (4) JW Speaker®, Model 8800, 4" x 6" rectangular LED lights mounted in the front quad style, chrome housing on each side of the cab grille:

the outside light on each side will contain a part number 055***1 low beam module

the inside light on each side will contain a part number 055***1 high beam module

the headlights to include chrome bezels

The low beam lights will be activated when the headlight switch is on.

The high beam and low beam lights will be activated when the headlight switch and the high beam switch is activated.

0802935

Light, Directional, Wln M62T* LED, Cmn Bzl, Above Headlights, Sab/Enf

FRONT DIRECTIONALS

The front directional's will be Whelen®, Model M62T, 4.31" high x 6.75" wide x 1.37" deep

directional lights with amber LEDs. The lens color(s) to be the same as the LEDs. The

directional's will be housed in the same common bezel as the front warning light and will be

located above the headlights. The housing to be polished and the trim shall be chrome.

The flash pattern of the directional lights will be Steady On (Arrow).

0620054

Light, Directional/Marker, Intermediate, Weldon 9186-8580-29 LED 2lts

INTERMEDIATE LIGHT

There will be two (2) Weldon, Model 9186-8580-29, amber LED turn signal marker lights

furnished, one (1) each side, in the rear fender panel. The light will double as a turn signal and marker light.

0647802

Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber FR/Enforcer

CAB CLEARANCE/MARKER/ID LIGHTS

There will be five (5) amber LED lights provided to indicate the presence and overall width of the vehicle in the following locations:

Three (3) amber LED identification lights will be installed in the center of the cab above the windshield.

Two (2) amber LED clearance lights will be installed, one (1) on each outboard side of the cab above the windshield.

0647899	Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29 LED, Sab/Enf	FRONT CAB SIDE DIRECTIONAL/MARKER LIGHTS There will be two (2) Weldon, Model 9186-8580-29, amber LED lights installed front of the cab door, one (1) on each side of the cab. The lights will activate as marker lights with the headlight switch and directional lights with the corresponding directional circuit.
0511569	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	REAR CLEARANCE/MARKER/ID LIGHTING There will be three (3) LED identification lights located at the rear installed per the following: As close as practical to the vertical centerline Centers spaced not less than 6.00" or more than 12.00" apart Red in color All at the same height There will be two (2) LED lights installed at the rear of the apparatus used as clearance lights located at the rear of the apparatus per the following: To indicate the overall width of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the rear All at the same height There will be two (2) LED lights installed on the side of the apparatus used as marker lights as close to the rear as practical per the following: To indicate the overall length of the vehicle One (1) each side of the vertical centerline As near the top as practical Red in color To be visible from the side All at the same height The lights will be mounted with no guard. There will be two (2) red reflectors located on the rear of the truck facing to the rear. One (1) each side, as far to the outside as practical, at a minimum of 15.00", but no more than 60.00", above the ground. There will be two (2) red reflectors located on the side of the truck facing to the side. One (1) each side, as far to the rear as practical, at a minimum of 15.00", but no more than 60.00", above the ground. Per FMVSS 108 and CMVSS 108 requirements.
0602938	Light, Marker End Outline, Rubber Arm, LED Marker Lamp, Rear Body	MARKER LIGHTS There will be one (1) pair of amber and red LED marker lights with rubber arm, located at the rear most lower corner of the body. The amber lens will face the front and the red lens will face the rear of the truck. These lights will be activated with the running lights of the vehicle.
0564683	Lights, Tail, WIn M6BTT* Red LED Stop/Tail & M6T* Amber LED Dir Arw For Hsg	REAR FMVSS LIGHTING The rear stop/tail and directional LED lighting will consist of the following: Two (2) Whelen®, Model M6BTT, red LED stop/tail lights Two (2) Whelen, Model M6T, amber LED arrow turn lights The lights will be provided with color lenses. The lights will be mounted in a polished combination housing.
0561471	Lights, Backup, WIn M6BUW, LED, For Tail Lt Housing	There will be two (2) Whelen Model M6BUW, LED backup lights provided in the tail light housing.
0664481	Bracket, License Plate & Light, P25 LED	LICENSE PLATE BRACKET There will be one (1) license plate bracket mounted on the rear of the body. A white LED light will illuminate the license plate. A stainless steel light shield will be provided over the light that will direct illumination downward, preventing white light to the rear.
0556842	Bezels, WIn, (2) M6 Chrome Pierce, For mtg (4) WIn M6 lights	LIGHTING BEZEL There will be two (2) Whelen, Model M6FCV4P, four (4) place chromed ABS housings with Pierce logos provided for the rear M6 series stop/tail, directional, back up, scene lights or warning lights.
0589905	Alarm, Back-up Warning, PRECO 1040	BACK-UP ALARM A PRECO, Model 1040, solid-state electronic audible back-up alarm that actuates when the truck is shifted into reverse will be provided. The device will sound at 60 pulses per minute and automatically adjust its volume to maintain a minimum ten (10) dBA above surrounding environmental noise levels.
0059581	Buzzer, Warning - Button, Qty, Location	REAR STEP BUZZER There will be one (1) buzzer button(s) located left rear of body above tail lights that will be labeled 1-Stop, 2-Go and 3-Back. The button(s) will activate the alarm in the cab. The switches will be located within 62.00" to the ground.

0578264	Flash Pattern, California Title13, LED Warning Lights	<p>WARNING LIGHT FLASH PATTERN The flash pattern of all the exterior warning lights will be set to meet the certified California, Title XIII flash pattern by either the light manufacturer's default flash pattern or by a conversion change to the certified flash pattern.</p>
0769569	Lights, Perimeter Cab, Amdor AY-LB-12HW012 LED 4Dr	<p>CAB PERIMETER SCENE LIGHTS There will be four (4) Amdor, Model AY-LB-12HW012, 190 lumens each, 12.00" white LED strip lights provided. One (1) under the driver's side cab access step. One (1) under the passenger's side cab access step. One (1) under the passenger's side crew cab access step. One (1) under the driver's side crew cab access step. The lights will be activated when the battery switch is on and the respective door is open and whenever control has been selected for the body perimeter lights.</p>
0765941	Lights, Perimeter Body, Amdor AY-LB-12HW012 LED 2lts, Turntable Access	<p>BODY PERIMETER SCENE LIGHTS There will be two (2) Amdor®, Model AY-LB-12HW012, 190 lumen, 12.00" long, 12 volt DC white LED lights provided. The lights will be mounted in the following locations: One (1) light under the driver's side turntable access steps One (1) light under the passenger's side turntable access steps The perimeter scene lights will be activated when the parking brake is applied.</p>
0769567	Lights, Perimeter, Amdor AY-LB-12HW012 12", Brkt	<p>ADDITIONAL PERIMETER LIGHTS There will be two (2) lights Amdor®, Model AY-LB-12HW012, 190 lumens each, 12.00" white LED perimeter light(s) provided one (1) light under compartment LS5 and one (1) light under compartment RS5. These lights will be activated the same as the body perimeter lights.</p>
0896454	Enhanced Software for Perimeter Lts	<p>ENHANCED SOFTWARE FOR PERIMETER LIGHTS All perimeter lights and scene lights will be deactivated when the parking brake is released. The cab and crew cab perimeter lights will dim after 10 seconds or immediately if the vehicle's transmission is put into gear.</p>
0756434	Guard, Aluminum Treadplate, Whelen Summit Light bar, Location	<p>LIGHT GUARD There will be two (2) aluminum treadplate guard(s), provided to protect the Whelen Summit light bar(s), Centered on Catwalk above LS3/RS3 .</p>
0776357	Light, Visor, Wln, 12V P*H2* Pioneer, Cnt Feature, 1st	<p>12 VOLT LIGHTING There will be two (2) Whelen® Model P*H2*, 17,750 lumens 12 volt DC light(s) with a combination of flood and spot optics provided on the front visor, one (1) on the driver's side and one (1) on the passenger's side. The housing(s) painted parts of this light assembly to be black. The light(s) will be controlled by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel. These light(s) may be load managed when the parking brake is applied.</p>
0774308	Lights, Wln, P*H2* Pioneer, 12 VDC, 2nd	<p>12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model P*H2*, 17,750 lumens 12 volt DC powered lights with white LEDs and a combination of flood and spot optics installed on the apparatus located, 1st light on RS cab between Cab door and Crew cab door as high as possible above the EMS exterior access door in a recessed bracket, match #35556. The light(s) to be installed in a all black 15 degree vertical recessed bracket PBH203BB. The painted parts of this light assembly to be black. The lights will be activated by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel. The light(s) may be load managed when the parking brake is applied.</p>
0774309	Lights, Wln, P*H2* Pioneer, 12 VDC, 1st	<p>12 VOLT DC SCENE LIGHTS There will be one (1) Whelen® Model P*H2*, 17,750 lumens 12 volt DC powered lights with white LEDs and a combination of flood and spot optics installed on the apparatus located, 1st light on LS cab between Cab door and Crew cab door as high as possible above the EMS exterior access door in a recessed bracket, match #35556. The light(s) to be installed in a all black 15 degree vertical recessed bracket PBH203BB. The painted parts of this light assembly to be black. The lights will be activated by a switch at the driver's side switch panel and by a switch at the passenger's side switch panel. The light(s) may be load managed when the parking brake is applied.</p>

0748793	Lights, WIn, S44M** 44" 12VDC, RS Body	<p>12 VOLT LIGHTING</p> <p>There will be one (1) Whelen® Model S44M**, 19,440 lumens 44.00" 12 volt DC light(s) with white LEDs provided on the right side of the body located, RS on catwalk of body, centered above RS3. The painted parts of this light assembly to be black.</p> <p>The light(s) will include the following:</p> <p>10 scene light modules with white LEDs</p> <p>Three (3) amber LEDs as marker lights</p> <p>Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs.</p> <p>The lights will be activated per the following:</p> <p>The amber marker lights not activated.</p> <p>The scene LEDs will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by the same switching that has been selected for the other side scene light(s) on the apparatus.</p> <p>There will be a switch in the cab on the switch panel to control the flashing warning LED modules when selected.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0748795	Lights, WIn, S44M** 44" 12VDC, LS Body	<p>12 VOLT LIGHTING</p> <p>There will be one (1) Whelen® Model S44M**, 19,440 lumens 44.00" 12 volt DC light(s) with white LEDs provided on the left side of the body located, LS on catwalk of body, centered above LS3. The painted parts of this light assembly to be black.</p> <p>The light(s) will include the following:</p> <p>10 scene light modules with white LEDs</p> <p>Three (3) amber LEDs as marker lights</p> <p>Two (2) additional LED modules. The additional modules to be two (2) scene light modules with white LEDs.</p> <p>The lights will be activated per the following:</p> <p>The amber marker lights not activated.</p> <p>The scene LEDs will be controlled by a switch at the driver's side switch panel, by a switch at the passenger's side switch panel and by the same switching that has been selected for the other side scene light(s) on the apparatus.</p> <p>There will be a switch in the cab on the switch panel to control the flashing warning LED modules when selected.</p> <p>The light(s) may be load managed when the parking brake is applied.</p>
0798591	Lights, Deck, WIn (2) MPBB Micro Pioneer LED Rear Flood Lights	<p>DECK LIGHTS</p> <p>There will be two (2) Whelen®, Model MPBB, black 12 volt DC LED floodlights with stud bail mount provided at the rear of the hose bed, one (1) each side.</p> <p>The lights will be activated by a control from the driver side and officer side switch panel.</p>
0645681	Lights, Not Required, Rear Work, Deck Lights At Rear	
0709438	Lights, Walk Surf, FRP Flood, LED	<p>WALKING SURFACE LIGHT</p> <p>There will be Model FRP, 4" round black 12 volt DC LED floodlight(s) with bolt mount provided to illuminate the entire designated walking surface on top of the body.</p> <p>The light(s) will be activated when the body step lights are on.</p>
0788427	Aerial, HD Ladder 107' ASL Tandem, No Pump, Alum Body	
0554269	Body Skirt Height, 18"	
0073475	Cargo Area, Alum, IPO Hose Bed, Ascend TA, PAL	<p>CARGO AREA</p> <p>The cargo area will be fabricated of .125" 5052 aluminum with a tensile strength range of 31,000 to 38,000 psi.</p> <p>The sides will not form any portion of the fender compartments.</p> <p>The upper and rear edges of the side panels will have a double break for rigidity.</p> <p>The cargo area will be located ahead of the ladder turntable.</p> <p>Flooring of the cargo area will be aluminum treadplate.</p>
0723547	Painted Hose Bed/Cargo Area	The hose bed/cargo area interior will be painted to match the lower body color.

0735733	Turntable Steps-Morton Cass, Swing Down,LS/RS,Ascend TA,PAL,PAP,Handhld Cut Outs	<p>TURNTABLE STEPS Steps to access the turntable from the left and right side will be provided just behind the compartmentation. There shall be no bottom flip step provided. The bottom step will have a step height not exceeding 24.00" from the ground to the top surface of the step at any time. All steps will have a height no greater than 14.00" from top surface to top surface. The steps will be a swing-down design, with the stepping area made of Morton Tread-Grip® channel. The stepwell will be lined with bright aluminum treadplate to act as scuffplates. The steps will be connected to the "Do Not Move Truck" indicator. A knurled aluminum handrail will be provided on each side of the access steps. A hand hold will be provided in the left and right side of each set of access steps.</p>
0892656	Lights, Step (6), P25 LED, Each Side	<p>STEP LIGHTS There will be three (3) white LED step lights with chrome housing provided for each set of aerial turntable access steps. In order to ensure exceptional illumination, each light will provide a minimum of 25 foot-candles (fc) covering an entire 15" x 15" square placed ten (10) inches below the light and a minimum of 1.5 fc covering an entire 30" x 30" square at the same ten (10) inch distance below the light. The step lights will be activated when the parking brake is applied .</p>
0690023	Wall, Rear, Smooth Aluminum	<p>SMOOTH ALUMINUM REAR WALL The rear wall will be smooth aluminum.</p>
0029503	Tow Eyes (2), Painted, Aerial	<p>TOW EYES Two (2) rear painted tow eyes will be located at the rear of the apparatus and will be mounted directly to the torque box. The inner and outer edges of the tow eyes will be radiused.</p>
0013641	Construction, Compt, Alum, Ascendant Tandem, PAL	<p>COMPARTMENTATION Compartmentation will be fabricated of 0.125" 5052 aluminum. The side compartments are an integral assembly with the rear fenders. Fully enclosed rear wheel housings will be provided to prevent rust pockets and for ease of maintenance. Due to the severe loading requirements of this aerial, a method of compartment body support suitable for the intended load will be provided. The backbone of the support system will be the chassis frame rail, which is the strongest component of the chassis and is designed for sustaining maximum loads. A support system will be used which will incorporate a floating substructure by using Neoprene Elastomer isolators to allow the body to remain rigid while the chassis goes through its natural flex. The isolators will have a broad range of proven viability in vehicular applications, be of a fail safe design, and allow for all necessary movement in three (3) transitional and rotational modes. This will result in a 500 lb equipment rating for each lower compartment of the body. The compartmentation in front of the rear axle will include a 3.00" steel support assemblies which are bolted to the chassis frame rails. A steel framework will be mounted to the body above these support assemblies connected to the support assemblies with isolators. There will be one (1) support assembly mounted to each chassis frame rail. The compartmentation behind the rear axle will include 3.00" steel support assemblies which are bolted to the chassis frame rails and extend underneath to the outside edge of the body. The support assembly will be coated to isolate the dissimilar metals before it is bolted to the body. There will be one (1) support assembly mounted to each chassis frame rail. Compartment flooring will be of the sweep out design with the floor higher than the compartment door lip. The compartment door openings are framed by flanging the edges in 1.75" and bending out again 0.75" to form an angle. Drip protection is provided over all door openings by means of bright aluminum extrusion or formed bright aluminum treadplate. Side compartment tops will be covered with bright aluminum treadplate with a 1.00" rolled over edge on the front, rear and outward side. The covers are fabricated in one (1) piece and have the corners welded. A bright aluminum treadplate cover will be provided on the front wall of each side compartment. All screws and bolts which protrude into a compartment will have acorn nuts at the ends to prevent injury. The body design has been fully tested. Proven engineering and test techniques such as finite element analysis, model analysis, stress coating and strain gauging have been performed with special attention given to fatigue life and structural integrity of the compartment body and substructure.</p> <p>AGGRESSIVE WALKING SURFACE All exterior surfaces designated as stepping, standing, and walking areas will comply with the required average slip resistance of the current NFPA standards.</p> <p>LOUVERS All body compartments will have a minimum of one (1) set of louvers stamped into a wall to provide the proper airflow inside the compartment and to prevent water from dripping into the compartment. These louvers will be formed into the metal and not added to the compartment as a separate plate.</p>
0033662	Compt w/No Pump, 60" Wide w/DbI Doors	<p>COMPARTMENT IN PLACE OF PUMP A double door compartment will be installed in place of the pump and pump panel. The compartment will be approximately 54.25" wide x 64.00" high x 24.50" deep in the lower area and transversed in the top portion of the compartment. The transversed area will be 46.50" wide x 47.00 high. The door opening will be approximately 52.50" wide x 60.50" high. The forward wall will be notched for the boom support.</p>

0891798	Compt, LS F/H F/D, Lap Drs, Ascend TA, 105', 100 HAL, No Pump No Tank	<p>LEFT SIDE COMPARTMENTATION</p> <p>A full height double door compartment ahead of the rear wheels will be approximately 41.75" wide x 64.00" high x 24.25" deep with a door opening of approximately 40.00" wide x 60.50" high. One (1) lift-up door compartment above the fender compartments and over the rear axles will be provided. The compartment will be approximately 72.13" wide x 33.25" high x 24.25" deep inside with a door opening of approximately 65.00" wide x 29.62" high.</p> <p>A compartment with a single pan smooth aluminum painted to match the lower body color door will be located above the front stabilizer. The door will be hinged on the rear body side with a flush lift and turn latch. The compartment will be approximately 18.00" wide x 23.00" high x 24.25" deep with a door opening of approximately x 12.00" wide x 15.75" high.</p>
0063692	Compt, LS Turntable, F/H F/D, Lap Drs, Ascendant Tandem, 105 HDL	<p>A full height double door compartment behind the rear wheels will be approximately 43.75" wide x 49.25" high x 21.25" deep inside with a door opening of approximately 42.00" wide x 45.75" high. One (1) compartment below the turntable with a lift-up door will be provided. The compartment will be approximately 39.38" wide x 18.38" high x 21.25" deep inside with a door opening of approximately 35.00" wide x 14.88" high.</p>
0023672	Compt, IPO Stairs, Not Required, LS	
0063726	Compt, RS F/H F/D, Lap Drs, w/o Chute, Ascendant Tandem, 105 HDL, 100 HAL	<p>RIGHT SIDE COMPARTMENTATION</p> <p>A full height double door compartment, ahead of the rear wheels, will be 41.75" wide x 64.00" high x 24.25" deep with a door opening of 40.00" wide x 60.50" high. One (1) lift-up door compartment will be provided above the fender compartments and over the rear axles. The compartment will be 72.13" wide x 33.25" high x 24.25" deep inside with a door opening of 65.00" wide x 29.62" high.</p> <p>A compartment with a single pan smooth aluminum painted to match the lower body color door will be located above the front stabilizer. The door will be hinged on the rear body side with a flush lift and turn latch. The compartment will be approximately 18.00" wide x 23.00" high x 24.25" deep with a door opening of approximately 12.00" wide x 15.75" high.</p>
0063732	Compt, RS Turntable, F/H F/D, Lap Drs, Ascendant Tandem, 105 HDL	<p>A full height double door compartment behind the rear wheels will be approximately 43.75" wide x 49.25" high x 21.25" deep inside with a door opening of approximately 42.00" wide x 45.75" high. A compartment below the turntable with a lift-up door will be approximately 39.38" wide x 18.38" high x 21.25" deep inside with a door opening of approximately 35.00" wide x 14.88" high.</p>
0023673	Compt, IPO Stairs, Not Required, RS	
0666824	Doors, Lap w/"D" Handle, Aluminum, Side Compartments	<p>SIDE COMPARTMENT DOORS</p> <p>All hinged compartment doors will be lap style with double panel construction and fabricated of .09" 5052H32 aluminum. Doors will be a minimum of 1.50" thick. To provide additional door strength, a "C" section reinforcement will be installed between the outer and interior panels. Doors will be provided with a closed cell rubber gasket around the surface that laps onto the body. A second heavy-duty automotive rubber molding with a hollow core will be installed on the door framing that seals onto the interior panel, to ensure a weather resisting compartment. All compartment doors will have polished stainless steel continuous hinge with a pin diameter of .25", that is bolted or screwed on with stainless steel fasteners. A dielectric substance will be applied to each hinge fastener.</p> <p>All door lock mechanisms will be fully enclosed within the door panels to prevent fouling of the lock in the event equipment inside shifts into the lock area.</p> <p>Doors will be latched with recessed, polished stainless steel "D" ring handles and Eberhard 106 locks.</p> <p>To prevent corrosion caused by dissimilar metals, compartment door handles will not be attached to outer door panel with screws. A rubber gasket will be provided between the "D" ring handle and the door.</p>
0540787	Stabilizer Compartment, Modified for 18" Stabilizer Penetration	<p>BODY MODIFICATION FROM STANDARD</p> <p>The compartment above the stabilizers (if applicable) will be decreased due to deeper stabilizer depth. The height of the compartment will decrease 4.00" and the compartment door will move up 4.00" higher. The stabilizer frame opening as well as the stabilizer pan will be increased in height by 6.00".</p>
0552955	Blister, Compts in Front of Rear Axle, To Clear Firemaax Suspension	<p>COMPARTMENT BLISTER</p> <p>A blister in the compartment ahead of the rear wheels will be provided to clear the front bracket of the Firemaax suspension. This blister will take away some of the interior area of the compartment.</p>
0018820	Bumper, Rear, 5" w/Treadplate Cover, Ascendant Tandem, PAP, PAL, RMAP	<p>REAR BUMPER</p> <p>A 5.00" rear bumper will be furnished. Bumper will be constructed of steel framework and will be covered with polished aluminum treadplate. The bumper will be 4.00" deep x 5.00" high and will be spaced away from the body approximately 1.00". It will extend the full width of the body.</p>

0603083	Lights, Compt,Pierce LED,Dual Light Strips,Each Side Dr,Ascend TA,75'HAL,PAP,HDL	<p>COMPARTMENT LIGHTING</p> <p>There will be ten (10) compartment(s) with two (2) white 12 volt DC LED compartment light strips. The dual light strips will be centered vertically along each side of the door framing. There will be two (2) light strips per compartment. The dual light strips will be in all body compartment(s). Any remaining compartments without light strips will have a 6.00" diameter Truck-Lite, Model: 79384 light. Each light will have a number 1076 one filament, two wire bulb. Opening the compartment door will automatically turn the compartment lighting on.</p>
0760868	Lights, Cargo/Dunnage, Dual LED Light Strips, Each Side	<p>CARGO/DUNNAGE AREA LIGHTING</p> <p>There will be two (2), 12 volt DC strips lights with white LEDs and stainless steel protective cover, provided to illuminate the cargo area. One (1) light strip will be installed the entire length of the left side of the cargo area. One (1) light strip will be installed the entire length of the right side of the cargo area. The light(s) will be activated when the parking brake is applied.</p>
0603420	Shelf Tracks, Painted, Aerial	<p>MOUNTING TRACKS</p> <p>There will be eight (8) sets of tracks for mounting shelf(s) in LS1, LS3, LS4, LS5, RS1, RS3, RS4 and RS5. These tracks will be installed vertically to support the adjustable shelf(s), and will be full height of the compartment. The tracks will be painted to match the compartment interior.</p>
0600289	Shelves, Adj, 500 lb Capacity, Full Width/Depth, Predefined Locations, Aerial	<p>ADJUSTABLE SHELVES</p> <p>There will be six (6) shelves with a capacity of 500 lb provided. The shelf construction will consist of .188" aluminum painted spatter gray with 2.00" sides. Each shelf will be infinitely adjustable by means of a threaded fastener, which slides in a track. The shelves will be held in place by .12" thick stamped plated brackets and bolts. The location(s) will be in RS3 centered between the floor and the ceiling, in RS4 in the upper third, in RS1 in the upper third, in LS3 centered between the floor and ceiling, in LS4 in the upper third and in LS1 in the upper third.</p>
0709689	Tray, 500 lb Slide-out, 2" Sides - Adj. Height, Predefined Locations	<p>SLIDE-OUT ADJUSTABLE HEIGHT TRAY</p> <p>There will be two (2) slide-out trays provided. Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position. Each tray will be constructed of aluminum painted spatter gray. Each tray will be mounted on a pair of side mounted slides. The slide mechanisms will have ball bearings for ease of operation and years of dependable service. The slides will be mounted to shelf tracks to allow the tray to be adjustable up and down within the designated mounting location. An automatic lock will be provided for both the in and out tray positions. The lock trip mechanism will be located at the front of the tray and will be easily operated with a gloved hand. The location(s) will be in RS4 centered between the floor and the ceiling and in LS4 centered between the floor and ceiling</p>
0603763	Tray, Floor Mounted, Slide-Out, 500lb, 2.00" Sides, 2G Aerial	<p>SLIDE-OUT FLOOR MOUNTED TRAY</p> <p>There will be four (4) floor mounted slide-out tray(s) provided. Each tray will have 2.00" high sides and a minimum capacity rating of 500 lb in the extended position. Each tray will be constructed of aluminum painted spatter gray. There will be two undermount-roller bearing type slides rated at 250lb each provided. The pair of slides will have a safety factor rating of 2. To ensure years of dependable service, the slides will be coated with a finish that is tested to withstand a minimum of 1,000 hours of salt spray per ASTM B117. To ensure years of easy operation, the slides will require no more than a 50lb force for push-in or pull-out movement when fully loaded after having been subjected to a 40 hour vibration (shaker) test under full load. The vibration drive file will have been generated from accelerometer data collected from a heavy truck chassis driven over rough gravel roads in an unloaded condition. Proof of compliance will be provided upon request. Automatic locks will be provided for both the "in" and "out" positions. The trip mechanism for the locks will be located at the front of the tray for ease of use with a gloved hand. The location(s) will be RS1, RS4, LS1 and LS4.</p>

0648486	Toolboard, Slide-out, 2-Way, Alum, .188", Peg Board, w/6" Tray, Full Transverse	<p>TRANSVERSE TWO (2) WAY SLIDE-OUT TOOLBOARD</p> <p>An aluminum toolboard will be provided for use in a transverse side body compartment. The toolboard will be constructed of 0.19" thick aluminum that is painted spatter gray to match compartment interior. The toolboard will be provided with 0.203" diameter holes in a pegboard pattern with 1.00" centers between holes. A 1.00" x 1.00" aluminum tube frame will be welded to the edge of the pegboard.</p> <p>The toolboard will span the full depth of the transverse compartment and will be designed to be as tall as possible to fit in the specified mounting location.</p> <p>The toolboard will be mounted inside a 6.00" wide x 3.00" high, utility style slide-out tray. The bottom of the tray will be constructed of 0.19" thick aluminum while special aluminum extrusions will be utilized for the tray sides, ends and tracks. The corners will be welded.</p> <p>The tray will be supported with a minimum of six (6) ball bearing rollers. The toolboard and tray will slide out two thirds (2/3) of its length to either side of the apparatus. Positive locks will be provided for toolboard in both the stowed and extended positions.</p> <p>Additionally, the toolboard and tray assembly will be mounted on shelf type tracks to allow for side to side adjustment within the compartment.</p> <p>The toolboard will be rated for a maximum of 500 lb in the extended position.</p> <p>A total of Three (3) toolboard(s) will be provided. The toolboard(s) will be located LS5/RS5.</p>
0542387	Compt, IPO Chute, Rear Access, Tandem Axle, Smooth Alum Door	<p>COMPARTMENT IPO HOSE CHUTE</p> <p>There will be one (1) compartment(s) located on the RS rear of Body side of the body at the rear, in place of the hose chute. Each compartment will be approximately 10.00" wide x 46.00" deep. The rear 22.50" of length will be 16.00" high. The remaining forward length will be 14.00" high. Each compartment will have a smooth aluminum lift up door with a flush lift and turn latch.</p>
0796215	Floor Extension, Compartment, 1.00" Upturned Lip	<p>FLOOR EXTENSION</p> <p>There will be a compartment floor extension provided. The floor extension will extend from the area over the frame rails to within an inch of the compartment door. The floor extension will have a 1.00" vertical upturned lip and no return flange.</p> <p>A total of two (2) will be provided and located LS5/RS5.</p>
0004016	Rub Rail, Aluminum Extruded, Side of Body	<p>RUB RAIL</p> <p>Bottom edge of the side compartments will be trimmed with a bright aluminum extruded rub rail. Trim will be 2.12" high with 1.38" flanges turned outward for rigidity.</p> <p>The rub rails will not be an integral part of the body construction, which allows replacement in the event of damage.</p>
0004027	Fender Crowns, Rear, S/S, Two Pair	<p>BODY FENDER CROWNS</p> <p>Stainless steel fender crowns will be provided around the rear wheel openings.</p> <p>A rubber welting will be provided between the body and the crown to seal the seam and restrict moisture from entering.</p>
0621698	Compt, Air Bottle, Between Tandems, Four (4) Bottles, w/ Straps, Aerial	<p>FOUR AIR BOTTLE STORAGE COMPARTMENT</p> <p>A total of one (1) air bottle compartment will be provided and located on the right side, centered between the tandem rear wheels. The air bottle compartment will consist of individual bins each designed to hold an air bottle with a maximum diameter of 7.63" and a maximum depth of 26.00". Each compartment will hold a total of four (4) air bottles. The compartment will accommodate three (3) bottles across the top and one (1) centered below. The bottom air bottle will be accessible only when the top center bottle is removed and the hinged partition over the bottom bottle is lifted up. Each bottle will be separated by a partition.</p> <p>Flooring will be rubber lined and have a drain hole. A drop down door with support cables with pair of flush lift & turn latches will be provided for each compartment. The door will be painted stainless steel. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.</p> <p>AIR BOTTLE COMPARTMENT STRAP</p> <p>Straps will be provided in the air bottle compartment(s) to help contain the top three (3) air bottles. The straps will wrap around the neck of each bottle and attach to the wall of the compartment.</p>
0766550	SP Compt, Equipment/Air Pack, Btwn Tandems, Latches, Dura-Surf on Floor, Aerial	<p>EQUIPMENT STORAGE</p> <p>A total of one (1) compartment(s) will be provided and located on the left side centered between the tandem rear wheels. The compartment(s) will be approximately 16.00" wide at the top x 8.00" wide at the bottom with tapered sides. The compartment(s) will be approximately 12.00" high x 26.00".</p> <p>Flooring will be lined with DuraSurf and have a drain hole. A drop down door with support cables and a chrome plated flush lift & turn latch will be provided for each compartment. The door will be painted stainless steel. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal.</p>

0770606	Compt, Air Bottle, Single, Round, Fender Panel, Tri Door, Tandem Axle Aerials	<p>SINGLE AIR BOTTLE STORAGE COMPARTMENT A quantity of one (1) air bottle compartment, 7.75" in diameter x 26.00" deep, will be provided on the left side rearward of the rear wheels. A painted triangular shaped, stainless steel door with a chrome plated flush lift & turn latch will be provided to contain the air bottle. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting will be provided.</p> <p>AIR BOTTLE COMPARTMENT STRAP A strap will be provided in the air bottle compartment to help contain the air bottle when the vehicle is parked on an incline. The strap will wrap around the neck and attach to the wall of the compartment.</p>
0780146	Compt, Air Bottle w/DEF Tank, Tri Door, w/Strap, Single, Round, Fender Panel	<p>AIR BOTTLE STORAGE (Single) A quantity of one (1) air bottle compartment, 7.75" in diameter x 26.00" deep, will be provided on the left side forward of the rear wheels. A triangular, painted stainless steel door with a chrome plated flush lift & turn latch will be provided to contain the air bottle and also cover the DEF tank opening. A dielectric barrier will be provided between the door hinge, hinge fasteners and the body sheet metal. Inside the compartment, black rubber matting will be provided.</p> <p>AIR BOTTLE COMPARTMENT STRAP Straps will be provided in the air bottle compartment(s) to help contain the air bottles. The straps will wrap around the neck of each bottle and attach to the wall of the compartment.</p>
0637785	Compt, Extinguisher Fender Panel, 9.00" Square	<p>EXTINGUISHER STORAGE A quantity of two (2) extinguisher compartments will be provided on the right side forward of the rear wheels and on the right side rearward of the rear wheels. The extinguisher compartment will be in the form of a 9.00" square tube and of adequate depth to accommodate different size extinguishers. A painted stainless steel door with a chrome plated flush lift & turn latch will be provided to contain the extinguisher. A dielectric barrier will be provided between the door hinge, hinge fasteners, and the body sheet metal. Inside the compartment, black rubber matting will be provided. There will also be a drain hole for each compartment.</p>
0004218	Ladder, 35' Duo-Safety 1200A 2-Sect	<p>EXTENSION LADDER There will be one (1) 35' two (2) section aluminum Duo-Safety Series 1200-A extension ladder(s) provided.</p>
0004222	Ladder, 24' Duo-Safety 900A 2-Section	<p>AERIAL EXTENSION LADDER There will be one (1) 24' two (2) section aluminum Series 900-A extension ladder(s) provided and located in the aerial torque box.</p>
0595251	Ladder, 16' Duo-Safety 875-DR Roof, Hooks Both Ends	<p>ROOF LADDER There will be two (2) 16' aluminum, Duo-Safety, Series 875-DR roof ladder(s) provided. The ladder(s) will have hooks on both ends.</p>
0648681	Ladder, 14' Duo-Safety 875-DR Roof	<p>ADDED ROOF LADDER There will be two (2) aluminum, 14' Duo Safety 875-DR roof ladder provided (1) in Ladder Storage, (1) mounted to Aerial Base Inside of Sign Board.</p>
0664691	Ladder, 18' Duo-Safety 875A-DR Roof	<p>ADDED ROOF LADDER There will be two (2) 18' aluminum roof ladder, Series 875-A-DR provided.</p>
0521218	Not Required, Attic Extension Ladder	
0004246	Ladder, 10' Duo-Safety Folding, 585A	<p>AERIAL FOLDING LADDER There will be one (1) 10' aluminum Duo-Safety Series 585-A folding ladder(s) provided and located in the aerial torque box.</p>
0784892	Ladders in Torque Box, Dbl Lap Drs, Free Door Lock, Door Grabbers, Ascend/PAL/PAP	<p>GROUND LADDER STORAGE The ground ladders will be stored within the torque box and will be removable from the rear. Ladders will be enclosed to prevent road dirt and debris from fouling or damaging the ladders. The ladders rest in full length stainless steel slides and are arranged in such a manner that any one ladder can be removed without having to move or remove any other ladder. Vertically hinged double lap doors will be provided at the rear to close the ladder compartment. Doors will be of double pan aluminum construction. Single sheet aluminum doors will not be considered. The lock door will be latched with Eberhard latches with "D" ring handles. The free floating door will be provided with a locking mechanism on the top of the door to allow it to be secured to the door frame. There will be no stay arm device provided on either door. Door grabbers will be provided on the outside of each door and the rear body surface to hold each door open. A heavy-duty magnetic switch will be used for control of open compartment door warning lights.</p>

0602100	Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts	LADDER STORAGE LIGHTING There will be 21.00" white 12 volt DC LED strip lights in the torque box ladder storage compartment. One (1) light will be provided on each side of the ladder storage area. The lights will be activated when the ladder storage compartment door is opened.
0777289	Poly Hinge Guard, White, Torque Box Ladder Storage	LADDER RETAINER HINGE GUARD There will be a white polyethylene high density strip provided at the rear ladder retainer hinge to protect and allow easy access for the ground ladders. It will be full width of the ladder retainer hinge. The strip will be attached with countersunk screws and the edges will be chamfered.
0685402	Dura-Surf, Added	DURA-SURF MATERIAL Black Dura-Surf friction reducing material will be added to the bottom of seven (7) storage locations and located All Extension and Roof Ladders to prevent damage. The Dura-Surf material will be made to fit the storage area.
0658169	Ladders, Nested, Left Side Ground Ladder Storage	NESTED LADDER STORAGE There will be nested ladders on the left side of the ladder storage compartment. The ladders will be nested so that one ladder can be removed without removing the adjoining ladder.
0658170	Ladders, Nested, Right Side Ground Ladder Storage	NESTED LADDER STORAGE There will be nested ladders on the right side of the ladder storage compartment.
0064319	Pike Pole, 12' Fire Hooks Unlimited, Fiberglass, NHF-12	PIKE POLES There will be two (2) Fire Hooks Unlimited NHF-12, 12' pike pole(s) with fiberglass handles provided. The pike pole(s) will be stored on the apparatus.
0032956	Pike Pole, 8' Fire Hooks Unlimited, Wood Handles, NH-8'	8 FT PIKE POLE There will be two (2) Fire Hooks Unlimited, Model NH-8 pike pole(s) with wood handles provided.
0032957	Pike Pole, 6' Fire Hooks Unlimited, Wood Handles, NH-6'	6 FT PIKE POLE There will be two (2) Fire Hooks Unlimited, Model NH-6 foot pike pole(s) with wood handles provided.
0548410	Not Required, Pole, Pike, 3'	
0054792	Pike Pole, 8' Nupla, Vent Hook, RH-8DA, w/D Handle	8' PIKE POLE There will be two (2) 8 Nupla RH-8DA aluminum pike pole(s) provided with D-grip handles and roof/vent rubbish hooks.
0770464	Trough, S/S, Torque Box/Ladder Storage, D-Handled Pike Pole/Trash Hooks	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be a total of two (2) stainless steel trough(s) provided in the torque box/ladder storage area. The trough(s) will accommodate a Nupla fiberglass 8' roof vent/trash hook with D handle.
0770578	Pike Pole Tubes, in Torque Box/Ladder Storage, ABS	PIKE POLE STORAGE IN TORQUE BOX/LADDER STORAGE There will be ABS tubing provided in the torque box/ladder storage area for a total of six (6) pike poles. If the head of a pike pole can come into contact with a painted surface, a stainless steel scuffplate will be provided.
0024388	No Steps Required, Front Of Body	
0508020	Air Horn, (1) Hadley, 6" Round, In Bumper	AIR HORN SYSTEM One (1) Hadley round air horn with 6.00" bell will be recessed in the front bumper. The air horn system will be piped to the air brake system wet tank utilizing 0.38" tubing. A pressure protection valve will be installed to prevent the loss of air in the brake system.
0606842	Location, Air Horn, Bumper, Right Side, Outside Frame, Inboard (Pos #2)	Air Horn Location The air horn will be located on the right side of the bumper, just outside of the frame rail.
0757092	Control, Air Horn, Multi Select	Air Horn Control The air horn(s) will be activated by the following:

0757072	Control, Air Horn, Rocker/Membrane Sw, RS	Right side momentary switch
0757077	Control, Air Horn, Lanyard, LS	Left side lanyard. The lanyard to be a nylon rope.
0525667	Siren, WIn 295SLSA1, 100 or 200 Watt	ELECTRONIC SIREN A Whelen®, Model 295SLSA1, electronic siren with noise canceling microphone will be provided. This siren to be active when the battery switch is on and that emergency master switch is on.
0510206	Location, Elect Siren, Recessed Overhead In Console	Electronic siren head will be recessed in the driver side center switch panel.
0076156	Control, Elec Siren, Head Only	The electronic siren will be controlled on the siren head only. No horn button or foot switches will be provided.
0601306	Speaker, (1) WIn, SA315P, w/Pierce Polished Stainless Steel Grille, 100 watt	SPEAKER There will be one (1) Whelen®, Model SA315P, black nylon composite, 100-watt, speaker with through bumper mounting brackets and polished stainless steel grille provided. The speaker will be connected to the siren amplifier.
0548352	Location, Recessed in the Front Bumper, Driver Side	The speaker(s) will be recessed in the front bumper on the driver's side.
0895310	Siren, Federal Q2B	AUXILIARY MECHANICAL SIREN There will be a Federal Signal Model Q2B mechanical siren furnished and installed in the front of the apparatus. The Q2B will be chrome finish. The siren will have a 2-gauge cable connected to a power solenoid that is connected by a 2-gauge cable ran battery direct to the primary chassis batteries and will be labeled Q2B+ at the battery. The power solenoid will only be enabled when the emergency master switch is on. The siren will have a 2-gauge ground wire connected to the chassis battery stud. The cable will be labeled Q2B- at the battery. When the chassis battery switch is on, and the emergency master switch is on, the Q2B siren will be activated by the following:
0665593	Siren, Mechanical, Recessed In Bumper, Special Recessing Depth, EF Grille	The mechanical siren will be recessed behind the front bumper on the left side. The siren will be supported by the bumper framework. The Federal, Model MSFMT-EF, grille will be used on the front bumper in place of the standard Q2B mechanical siren grille.
0748305	Control, Mech Siren, Multi Select	MECHANICAL SIREN CONTROL The mechanical siren will be activated by the following:
0748282	Control Mech Siren, Ft Sw LS	Left side foot switch.
0731979	Control Mech Siren, Chrome Push Button Sw, RS	Right side chrome push button switch.
0737437	Sw, Siren Brake, Momentary Red, Pnl 9, Saber FR/Enf	A momentary red switch will be included in switch panel #9 to activate the siren brake.
0746353	Not Required, Warning Lights Intensity	

0791893	SP	Lightbar, WIn, Freedom IV-Q, 2-21.5", RRRRR RRsrRR	<p>FRONT ZONE UPPER WARNING LIGHTS</p> <p>There will be two (2) 21.50" Whelen® Freedom™ IV lightbars mounted on the cab roof, one (1) on each side, above the driver's and passenger's door, facing forward.</p> <p>The driver's side lightbar will include the following:</p> <ul style="list-style-type: none"> One (1) red flashing LED module in the outside end position. One (1) red flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside front position. One (1) red flashing LED module in the inside front position. One (1) red flashing LED module in the inside front corner position. <p>The passenger's side lightbar will include the following:</p> <ul style="list-style-type: none"> One (1) red flashing LED module in the inside front corner position. One (1) red flashing LED module in the inside front position. One (1) steady red LED module in the outside front position. One (1) red flashing LED module in the outside front corner position. One (1) red flashing LED module in the outside end position. <p>There will be clear lenses included on the lightbar.</p> <p>There will be a switch in the cab on the switch panel to control the lightbars.</p>
0691599		Light, GTT, 792* Strobe Opticom Emitter, Remote Mounted on Cab Roof	<p>TRAFFIC LIGHT CONTROLLER</p> <p>There will be a GTT, Model 792* strobe Opticom traffic light controller with national standard high priority remote mounted on the front edge of the cab on the DS.</p> <p>The Opticom traffic light controller will be activated by a cab switch with emergency master control.</p> <p>The Opticom traffic light controller will have no momentary activation switch.</p> <p>The Opticom traffic light controller will be disabled when the parking brake is applied.</p>
0540384		Lights, Front Zone, WIn M6°C LED, Clear Lens, in Common Bzl	<p>LIGHTS, FRONT ZONE LOWER</p> <p>Two (2) Whelen model M6°C LED flashing warning lights will be installed on the cab face above the headlights, in a common bezel with the directional lights.</p> <p>The driver's side front warning light to be red.</p> <p>The passenger's side front warning light to be red.</p> <p>Both lights will include a clear lens.</p> <p>There will be a switch located in the cab on the switch panel to control the lights.</p>
0653937		Flasher, Headlight Alternating	<p>HEADLIGHT FLASHER</p> <p>The high beam headlights will flash alternately between the left and right side.</p> <p>There will be a switch installed in the cab on the switch panel to control the high beam flash. This switch will be live when the battery switch and the emergency master switches are on.</p> <p>The flashing will automatically cancel when the hi-beam headlight switch is activated or when the parking brake is set.</p>
0540692		Lights, Side Zone Lower, WIn M6°C LED, Clear Lens, 3pr, Ovr 25	<p>SIDE ZONE LOWER LIGHTING</p> <p>There will be six (6) Whelen®, Model M6°C, flashing LED warning lights with chrome trim installed per the following:</p> <ul style="list-style-type: none"> Two (2) lights, one (1) each side on the bumper extension. The side front lights to be red. Two (2) lights, one (1) each side of cab rearward of crew cab doors. The side middle lights to be red. Two (2) lights, one (1) each side above rear wheels. The side rear lights to be red. <p>The lights will include clear lenses.</p> <p>There will be a switch in the cab on the switch panel to control the lights.</p>
0672937		Lights, Side, WIn WIONSMC* LED, Chrome Flange, Mounted In Rub Rail, 1st	<p>SIDE WARNING LIGHTS</p> <p>There will be six (6) Whelen, Model WIONSMC* LED light(s) provided and located in the body rub rails Rub rail below LS1, LS4, LS5, RS1, RS4,RS5. The lights will NOT be mounted with the rubber gasket behind the light which will allow the light(s) to fit in the rub rails.</p> <p>The color of each light will be red LED with a clear lens.</p> <p>Each light will be provided with a chrome plated ABS flange.</p> <p>The light(s) will be activated with the side warning switch.</p>
0564655		Lights, Rear Zn Lwr, WIn M6°C LED, Clear Lens, For Tail Lt Housing	<p>REAR ZONE LOWER LIGHTING</p> <p>There will be two (2) Whelen®, Model M6°C, LED flashing warning lights located at the rear of the apparatus.</p> <ul style="list-style-type: none"> The driver's side rear light to be red The passenger's side rear light to be red <p>Both lights will include a lens that is clear.</p> <p>There will be a switch located in the cab on the switch panel to control the lights.</p>
0088745		Light, Rear Zone Up, WIn L31HRFN LED Beacon, Red LED	<p>REAR/SIDE ZONE UPPER WARNING LIGHTS</p> <p>There will be two (2) Whelen®, Model L31H*FN, LED warning beacons provided at the rear of the truck, located one (1) each side. There will be a switch located in the cab on the switch panel to control the beacons.</p> <p>The color of the lights will be red LEDs with both domes clear.</p>
0006551		Not Required, Lights, Rear Upper Zone Blocking	

0759138	Bracket, 8" Ledge, Full Width Rear of Body, Ascendant Tandem, PAL/PAP	<p>REAR BODY LIGHT MOUNTING BRACKET</p> <p>There will be an 8.00" deep, full width, aluminum treadplate bracket(s) provided at the rear of the body above the ladder storage area. The bracket(s) will be provided to mount lights, cameras, or other accessories. The brackets will include a removable panel to protect the wire connections.</p>
0791501	Light, Traffic Directing, W/in TAL65, 36" Long LED, Aerials	<p>TRAFFIC DIRECTING LIGHT</p> <p>There will be one (1) Whelen®, Model TAL65, 36.00" long x 2.87" high x 2.25" deep, amber LED traffic directing light installed at the rear of the apparatus. The Whelen, Model TACTL5, control head will be included with this installation. The controller will be energized when the battery switch is on. The auxiliary flash not activated.</p>
0530073	Location, Traf Dir Lt, Surface Mounted Between Handrails Trdplt Wedge and Box	<p>This traffic directing light will be surface mounted between the handrails on a treadplate wedge bracket with a treadplate box at the rear of the apparatus.</p>
0530282	Location, Traf Dir Lt Controller, Overhead Switch Panel DS Right End	<p>The traffic directing light control head will be located in the driver side overhead switch panel in the right panel position.</p>
0519934	Not Required, Brand, Hydraulic Tool System	
0649753	Not Required, PTO Driven Hydraulic Tool System	
0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH	<p>FOUR (4)-SECTION 107 FOOT AERIAL LADDER CONSTRUCTION STANDARDS</p> <p>The ladder will be constructed to meet all of the requirements as described in the current NFPA 1901 standards.</p> <p>The aerial device will be a true ladder type device; therefore ladders attached to booms will not be considered.</p> <p>These capabilities will be established in an unsupported configuration.</p> <p>All structural load supporting elements of the aerial device that are made of a ductile material will have a design stress of not more than 50% of the minimum yield strength of the material based on the combination of the live load and the dead load. This 2:1 structural safety factor meets the current NFPA 1901 standard.</p> <p>All structural load supporting elements of the aerial device that are made of non-ductile material will have a design stress of not more than 20% of the minimum ultimate strength of the material, based on the combination of the rated capacity and the dead load. This 5:1 safety factor meets the current NFPA 1901 standard.</p> <p>Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire core for increased flexibility. The wire rope will be galvanized to reduce corrosion.</p> <p>The aerial base pivot bearings will be maintenance free type bearings and require no external lubrication.</p> <p>The aerial device will be capable of sustaining a static load one and one-half times its rated tip load capacity (live load) in every position in which the aerial device can be placed when the vehicle is on a firm level surface.</p> <p>The aerial device will be capable of sustaining a static load one and one-third times its rated tip load capacity (live load) in every position the aerial device can be placed when the vehicle is on a slope of five degrees downward in the direction most likely to cause overturning.</p> <p>With the aerial device out of the cradle and in the fully extended position at zero degrees elevation, a test load will be applied in a horizontal direction normal to the centerline of the ladder. The turntable will not rotate and the ladder will not deflect beyond what the product specification allows.</p> <p>All welding of aerial components, including the aerial ladder sections, turntable, pedestal, and outriggers, will be in compliance with the American Welding Society standards. All welding personnel will be certified, as qualified under AWS welding codes.</p> <p>The aerial device will be capable of operating in conditions of wind up to 50 mph and icing conditions of up to a .25" coating over the aerial structure.</p> <p>All of the design criteria must be supported by the following test data:</p> <ul style="list-style-type: none"> - Strain gage testing of the complete aerial device - Analysis of deflection data taken while the aerial device was under test load <p>The following standards for materials are to be used in the design of the aerial device:</p> <ul style="list-style-type: none"> - Materials are to be certified by the mill that manufactured the material - Material testing that is performed after the mill test will be for verification only and not with the intent of changing the classification - All welded structural components for the ladder will be traceable to their mill lots. <p>LADDER CONSTRUCTION</p> <p>The ladder is comprised of four (4) sections.</p> <p>The ladder will have the capability to support a minimum of 750 pounds at the tip in the unsupported configuration, based upon 360 degree rotation, up to full extension and from -10 degrees to +77 degrees.</p> <p>The ladder (handrails, baserails, trusses, K-braces and rungs) will be constructed of high strength low alloy steel, minimum 100,000 pounds per square inch yield, with full traceability on all structural members.</p> <p>Each section will be trussed diagonally, vertically and horizontally using welded steel tubing.</p>

All ladder rungs are round and welded to each section utilizing "K" bracing for lateral and torsional rigidity.

The inside width dimensions of the ladder will be:

- Base Section 41.87"
- Lower Mid Section 34.88"
- Upper Mid Section 27.87"
- Fly Section 21.63"

The height of the handrails above the centerline of the rungs will be:

- Base Section 26.28"
- Lower Mid Section 22.68"
- Upper Mid Section 20.06"
- Fly Section 17.32"

The ladder will be designed to provide continuous egress for firefighters and civilians from an elevated position to the ground.

The egress section will be designed to maintain the rated load of the aerial device. It will be bolted on for easy replacement. There will be a tow eye welded on to each side of the egress.

VERTICAL HEIGHT

The ladder will extend to a minimum height of 107' above the ground at full extension and elevation. The measurement of height will be consistent with NFPA standards.

HORIZONTAL REACH

The rated horizontal reach will be 100'. The measurement of horizontal reach will be consistent with NFPA standards.

TURNTABLE

The upper turntable assembly will connect the aerial ladder to the turntable bearing. The steel structure will have a mounting position for the aerial elevation cylinders, ladder connecting pins, and upper turntable operator's position.

The turntable will be a 0.375" thick steel deck, coated with an non-skid, chemical resistant material in the walking areas. The stepping surfaces will meet the skid-resistance requirements of the current NFPA 1901 standard.

The turntable handrails will be a minimum 42.00" high and will not increase the overall travel height of the vehicle. The handrails will be constructed from aluminum and have a slip resistant knurled surface. The turntable vertical handrail spacing will be designed with a 44.00" wide x 27.00" high opening to allow for equipment to pass through from the ground to the aerial ladder. The opening will be located at the center, rear of the turntable.

ELEVATION SYSTEM

Dual 5.50" diameter elevating cylinders will be mounted on the underside of the base section of the ladder, one (1) on each side. One (1) 2.25" diameter stainless steel pin will fasten each cylinder to the ladder and one (1) 2.50" diameter stainless steel pin will fasten each cylinder to the turntable. The pins will have 125,000 psi minimum yield strength and will be secured with 0.50" Grade 8 bolts with castle nut and cotter pin. The bolts are to ensure that the pins do not walk out of the mounting brackets on the turntable and base section.

The elevating cylinders will be mounted utilizing maintenance-free spherical bearings on both ends of the cylinders. The aerial base pivot bearings will be maintenance-free type bearings with no external lubrication required. **The cylinders will function only to elevate the ladder and not as a structural member to stabilize the ladder side movement. The elevating cylinders will be provided with pilot-operated check valves on the barrel and rod side of the piston to prevent movement of the ladder in case of a loss of hydraulic pressure.**

The operation envelope will be 10 degrees below horizontal to 77 degrees above horizontal.

The elevation system will be designed following NFPA standards. The elevation hydraulic cylinders will incorporate cushions on the upper limit of travel.

The lift cylinders will be equipped with integral holding valves located in the cylinder to prevent the unit from descending should the charged lines be severed, at any point within the hydraulic system and to maintain the ladder in the bedded position during road travel. The integral holding valves will NOT be located in the transfer tubes.

The elevation system will be controlled by the microprocessor. Linear transducers will measure the extension of the elevation cylinder. The microprocessor will provide the following features:

- Collision avoidance of the elevation system to prevent accidental body damage
- Automatic deceleration when the aerial device is lowered into the cradle
- Automatic deceleration at the end of stroke, in maximum raise and lower positions
- Deceleration of the aerial device at the limits of travel.

EXTENSION/RETRACTION SYSTEM

A hydraulically powered, extension and retraction system will be provided through dual hydraulic cylinders and wire ropes. Each set will be capable of operating the ladder in the event of a failure, of the other. The extension cylinder rod will be chrome plated to provide smooth operation of the aerial device and reduce seal wear. The extension/retraction cylinders will be equipped, with integral holding valves, to prevent the unit from retracting should the charged line be severed, at any point within the hydraulic system. The integral holding valves will NOT be located in the transfer tubes.

Wire ropes and attaching systems used to extend and retract the fly sections will have a 5:1 safety factor based on the ultimate strength under all operating conditions. The factor of safety for the wire rope will remain above 2:1 during any extension or retraction stall. The minimum ratio of the diameter of wire rope used to the diameter of the sheave used will be 1:12. Wire ropes will be constructed of seven (7) strands over an inner wire for increased flexibility. The wire rope will be galvanized to reduce corrosion.

The extension/retraction system will be controlled by the microprocessor. Linear transducers will measure the ladder extension. The microprocessor will provide the following features:

- Automatic deceleration at the end of stroke, in maximum extend and retract positions
- All sheaves will require lubrication. They will have bronze bushings and grease zerks.

MANUAL OVERRIDE CONTROLS

Manual override controls will be provided for all aerial and stabilizer functions.

LADDER SLIDE MECHANISM

UHMW polyethylene wear pads will be used between the telescoping ladder sections, to provide greater bearing surface area for load transfer. Adjustable slide pads will be used to control side play between the ladder sections.

ROTATION SYSTEM

The aerial will be supplied with a powered rotation system as outlined in NFPA standards. The hydraulic rotation motor will provide continuous rotation under all rated conditions and be supplied with a brake to prevent unintentional rotation. One (1) hydraulically driven, planetary gear box with drive speed reducers will be used to provide infinite and minute rotation control throughout the entire rotational travel. One (1) spring applied, hydraulically released disc type swing brake will be furnished to provide positive braking of the turntable assembly. Provisions will be made for emergency operation of the rotation system should complete loss of normal hydraulic power occur. The hydraulic system will be equipped with pressure relief valves which will limit the rotational torque to a nondestructive power. The gearbox will have a minimum continuous torque rating of 80,000 in. lbs. and a minimum intermittent rating of 160,000 in. lbs. The turntable bearing, ring gear teeth, pinion gear, planetary gearbox, and output shaft will be certified by the manufacturer of the components for the application.

The rotation system will be controlled by the microprocessor. The microprocessor will provide the following features:

- Collision avoidance to prevent accidental body damage
- Prevent the aerial from being rotated into an unstable condition.

ROTATION INTERLOCK

The microprocessor will be used to prevent the rotation of the aerial device to the side in which the stabilizers have not been fully deployed (short-jacked). The microprocessor will allow full and unrestricted use of the aerial, in the 180 degree area, on the side(s) where the stabilizers have been fully deployed. The system will also have a manual override, to comply with NFPA 1901. SYSTEMS THAT PERMIT THE AERIAL TO ROTATE TO THE "SHORT JACK" SIDE, WITHOUT AUTOMATICALLY STOPPING THE ROTATION AND/OR WITHOUT ACTUATION OF THE "MANUAL OVERRIDE", will NOT BE ACCEPTED. SYSTEMS THAT ONLY INCLUDE AN ALARM ARE NOT CONSIDERED AN INTERLOCK AND will NOT BE ACCEPTED.

LADDER CRADLE INTERLOCK SYSTEM

A ladder cradle interlock system will be provided through the microprocessor to prevent the lifting of the aerial device from the nested position until the operator places all the stabilizers in a load supporting configuration. A switch will be installed at the boom support to prevent operation of the stabilizers once the aerial has been elevated from the nested position..

AERIAL TORQUE BOX/PEDESTAL

The pedestal assembly will be a welded assembly made of high strength 0.25" plate. The vertical member will be a 0.375" reinforced wall cylinder with a 28.00" outside diameter and will connect the rotation bearing mounting plate to the lower substructure.

The pedestal assembly will be bolted to the chassis frame with 0.88" diameter Grade 8 bolts, and will be utilized to mount the outrigger jacks and reservoir for the aerial hydraulic system.

There will be a 5/8" gap between the torque box and the frame rails to promote drying of the surfaces and reduce the effect of corrosion.

LOAD CAPACITIES

The following load capacities will be established with the stabilizers at full horizontal extension and placed in the down position to level the truck and to relieve the weight from the tires and axles. Capacities will be based upon full extension and 360 degree rotation. A load chart, visible at the operator's station, will be provided. The load chart will show the recommended safe load at any condition of the aerial device's elevation and extension. 50 MPH WIND CONDITIONS/WATERWAY DRY

Degrees of

Elevation

- 10 to 9
- 10 to 19
- 20 to 29
- 30 to 39
- 40 to 49
- 50 to 59
- 60 to 69
- 70 to 77

Egress

- 750
- 750
- 750
- 750
- 750
- 750
- 750
- 750

Fly

-
-
-
-

250

500

750

Upper Mid

-
-
-

250

500

1000

1000

Lower Mid

-

-

-

-

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750

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Base

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50 MPH WIND CONDITIONS/WATERWAY CHARGED

Degrees of

Elevation

-10 to 9

10 to 19

20 to 29

30 to 39

40 to 49

50 to 59

60 to 69

70 to 77

Egress

500

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Reduced loads at the tip can be redistributed in 250 lb. increments to the fly, mid, or base sections as needed.

The tip capacity will be reduced to zero when flowing water with the nozzle above the waterway centerline.

Side to side monitor travel will be reduced with a 50MPH wind rating on the device.

BOOM SUPPORT

A heavy-duty boom support will be provided for support of the ladder in the travel position. On the base section of the ladder, a stainless steel scuffplate will be provided where the ladder comes into contact with the boom support.

0000038	Boom Support, Recessed in Compt IPO Pump	The boom support will be located just to the rear of the chassis cab, recessed into the transverse compartment in place of pump.
0762413	Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	AERIAL BOOM SUPPORT LIGHT There will be one (1) Amdor®, Model AY-LB-12HW012, 190 lumen, 12" long, white LED strip light mounted on the boom support cradle. This light will be activated when the aerial master switch is activated.
0680821	Boom Panel, Pair	AERIAL BOOM PANEL There will be one boom panel provided on each side of the aerial ladder base section. The boom panel will be painted #101 Black. The boom panels will be designed so no mounting bolts are in the face of the panel. This will keep the lettering surface free of holes.
0526886	Indicator, Extension, Inside Handrails Only, Every 10'	EXTENSION INDICATOR Extension markings and corresponding numerical indicators will be provided along each inside top rail of the base section of the aerial every ten (10) feet. They will indicate various positions of extension up to full. Markings and indicators will be clearly visible to the console operator. To aid in visibility during hours of darkness, the markings and numerical indicators will be of a red reflective material.
0723719	Steps, Folding, Four, Aerial Device, Trident	FOLDING STEPS One (1) set of folding steps will be provided at the tip of the ladder. An additional set of folding steps will be provided at the base of the fly section. The steps will be bright finished with a black tread coating on the stepping surface. Each step will have no integrated light.
0688232	Rung Covers, Aerial Device	AERIAL DEVICE RUNG COVERS Each rung will be covered with a secure, heavy-duty, fiberglass pultrusion that incorporates an aggressive, no-slip coating. The rung covers will be glued to each rung, and will be easily replaceable should the rung cover become damaged. The center portion of each rung cover will be black and the outside 2.00" edge at each side will be safety yellow. Under no circumstances will the rung covers be fastened to the rungs using screws or rivets. The rung covers will have a 10-year, limited warranty.
0680785	Limited Retraction, Aerial	LIMITED RETRACTION The aerial device will have limited retraction.
0642654	Scabbard, Temporary Vent Saw Storage, No Depth Gauge, Aerial Ladder, Painted	TEMPORARY SCABBARD AT END OF AERIAL There will be a total of two (2) vent saw scabbard(s) provided. The scabbard(s) will be mounted on each side of the aerial egress. The scabbard(s) will be painted smooth aluminum. The scabbard(s) will be painted black 101.
0623645	Aerial Stability Test, Max Tip Options	STABILITY TEST An aerial stability test will be run on this apparatus using the maximum weight allowance for tip options.
0786841	Brackets Only, Roof/Fresno Ladder, Base Section, Inboard of Boom Panel	LADDER STORAGE MOUNTING BRACKETS Mounting will be provided on the right side of the aerial device while viewed from the turntable for storage of one (1) roof ladder(s). The bracket(s) will be located inboard of the boom panel at the base section. The bracket(s) will hold the boom panel as close to the base section as possible and include straps to secure the ladder. The mounting brackets will accommodate a 14' Duo-Safety 875-A-DR roof ladder as determined by the type of aerial device and the available space.
0601972	Lights, Turntable Walkway, P25, LED	LIGHTS FOR TURNTABLE WALKWAY There will be white LED lights provided at the aerial turntable. The lights will be located to illuminate the entire walking surface of the turntable including the area around the turntable console. These lights will be activated by the aerial master switch.
0601949	Light, Turntable Console, TecNiq T-10, LED Strip Light	TURNTABLE CONSOLE LIGHTING There will be one (1), TecNiq Model T10, white LED light strip mounted in the turntable console cover to illuminate the controls located on both the upper and lower portion of the turntable control station. These lights will be activated by the aerial master switch.

0682164	Cover, Around Aerial Rotation Bearing	ROTATION BEARING COVER	A cover will be fitted over the aerial rotation bearing and drive pinion gear(s). The cover will be smooth aluminum painted to match aerial turntable and attached to the underside of the turntable deck.
0793038	Control Stations, ASL Tandem Axle, MUX, Color Display	INFORMATION CENTER	<p>There will be an information center provided. The information center will operate in temperatures from -40 to 185 degrees Fahrenheit. The information center will employ a Linux operating system and a 7.00" (diagonal measurement) LCD display. The LCD will have a minimum 400nits rated, color display. The LCD will be sunlight readable. The LCD display will be encased in an ABS, black plastic housing with a gray decal. There will be five (5), weather-resistant user interface switches provided. The LCD display can be changed to an available foreign language.</p> <p>OPERATION</p> <p>The information center will be designed for easy operation in everyday use. There will be a page button to cycle from one screen to the next screen in a rotating fashion. A video button will allow an NTSC signal into the information center to be displayed on the LCD. If any button is pressed while viewing a video feed, the information center will return to the vehicle information screens. There will be a menu button to provide access to maintenance, setup, and diagnostic screens. All other button labels will be specific to the information being viewed.</p> <p>GENERAL SCREEN DESIGN</p> <p>Where possible, background colors will be used to provide vehicle information <i>At A Glance</i>. If the information provided on a screen is within acceptable limits, a green background color will be used. If the information provided on a screen is not within acceptable limits, an amber background color will indicate a caution condition and a red background color will indicate a warning condition.</p> <p>Every screen in the information center will include the aerial tip temperature, the time (12- or 24-hour mode) and a text Alert Center. The time will be synchronized between all Command Zone color displays located on the vehicle. The Alert Center will display text messages for audible alarms. The text messages will identify any items causing the audible alarm to sound. If more than one (1) audible alarm is activated, the text message for each alarm will cycle every second until the problems have been resolved. The background for the Alert Center will change to indicate the severity of the warning message. Amber will indicate a caution condition and red will indicate a warning condition. If a warning and a caution condition occur simultaneously, the red background color will be shown for all Alert Center messages.</p> <p>A label will be provided for each button. The label will indicate the function for each active button for each screen. If the button is not utilized on specific screens, it will have a button label with no text.</p> <p>Symbols will accurately depict the aerial device type the information pertains to such as rear mount ladder, rear mount platform, mid-mount ladder or mid-mount platform.</p> <p>PAGE SCREENS</p> <p>The Information center will include the following pages:</p> <p>The Aerial Main and Load Chart page will indicate the following information:</p> <ul style="list-style-type: none"> <li>- Rungs Aligned and Rungs Not Aligned will be indicated with text and respective green or red colored ladder symbols. <li>- Ladder Elevation will be indicated via a fire apparatus vehicle with ladder symbol with the degree of elevation indicated between the vehicle and ladder. <li>- Water Flow (if applicable) will be indicated via a water nozzle symbol and text indicating flow / time. <li>- Breathing Air Levels will be indicated via an air bottle symbol and text indicating the percent (%) of air remaining. A green bar graphs shown inside the bottle will indicate oxygen levels above 20%. A red bar graph will indicate oxygen levels at or below 20%. When oxygen levels are at or below 10% the red bar graph will flash. <li>- The Aerial Load Chart will indicate the load limit on each section of the ladder based on actual ladder position and water flow (if applicable). <li>- <i>At A Glance</i> color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background. <p>The Aerial Reach and Hydraulic Systems page will indicate the following information:</p> <ul style="list-style-type: none"> <li>- Aerial Hydraulic Oil Temperature will be indicated with symbol and text. At a glance features will be utilized. <li>- Aerial Hydraulic Oil Pressure will be indicated with a symbol and text. At a glance features will be utilized. <li>- The following calculations will be indicated on a representative vehicle symbol: <li>- Aerial Device Extension length. <li>- Aerial Device Height indicating the height of the aerial device tip from the ground. <li>- Aerial Device Reach indicating the horizontal distance the aerial reaches from the turntable. <li>- Aerial Device Angle indicating the angle from the vehicle which the device is at. <li>- <i>At A Glance</i> color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background. <p>The Level Vehicle page will indicate the following information:</p> <ul style="list-style-type: none"> <li>- The grade of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of grade shown in text format. The symbol will tilt dependent on the vehicle grade. <li>- The slope of the vehicle will be indicated via a fire apparatus vehicle symbol with the degree of slope shown in text format. The symbol will tilt dependent on the vehicle slope. <li>- Outriggers status will be indicated via a colored symbol for each outrigger present. Each outrigger status will be defined as one of the following: <li>- Outrigger stowed indicated with a silver pan located close to the vehicle <li>- Outrigger fully extended indicated with a fully deployed green outrigger <li>- Outrigger short-jacked indicated by a yellow outrigger partially deployed <li>- Outrigger not set indicated by a red outrigger that is not set on the ground <li>- A text box located on the vehicle symbol will be utilized to identify the overall status of the outrigger leveling system. The following status will be indicated in the text box: <li>- Deployed status will indicate all outriggers are properly set on the ground at full extension

- Shortjacked status will indicate one or more outriggers are set on the ground but not fully extended.
- Not Set status will indicate one or more outriggers is not properly set on the ground.
- Stowed status will indicate all outriggers are stowed for vehicle travel.
- A bedding assist alert will indicate that the aerial device is being aligned by the Command Zone system as the operator lowers the aerial device into the cradle with the joystick.
- *At A Glance* color features will be utilized on this screen. Caution type conditions will be indicated via a yellow background. Warning type conditions will be indicated via a red background. Conditions operating within acceptable limits will be indicated via a green background.

MENU SCREENS

The following screens will be available through the Menu button:

The View System Information screen will display aerial device hours, aerial PTO hours, ladder aligned for stowing, aerial rotation angle, total water flow (if applicable), and aerial waterway valve status (if applicable).

The Set Display Brightness screen will allow brightness increase and decrease and include a default setting button.

The Configure Video Mode screen will allow setting of video contrast, video color and video tint.

The Set Startup screen allows setting of the screen that will be active at vehicle power-up.

The Set Date and Time screen has a 12- or 24-hour format, and allows setting of the time and date.

The View Active Alarms screen shows a list of all active alarms including the date and time of each alarm occurrence and shows all alarms that are silenced.

The System Diagnostics screen allows the user to view system status for each module and it's respective inputs and outputs. Viewable data will include the module type and ID number; the module version; and module diagnostics information including input or output number, the circuit number connected to that input or output, the circuit name (item connected to the circuit), status of the input or output, and other module diagnostic information.

Aerial calibrations screen indicates items that may be calibrated by the user and instructions to follow for proper calibration of the aerial device.

Button functions and button labels may change with each screen.

LOWER CONTROL STATION

A lower control station will be located at the rear of the apparatus in an easily accessible area.

The controls and indication labels will be illuminated for nighttime operation. The following items will be furnished at the lower control station and will be clearly identified and conveniently located for ease of operation and viewing:

- Level assist switch
- Override switch to override microprocessor
- Emergency power unit switch

TURNTABLE CONTROL STATION

There will be one (1) device control station located on the left side of the turntable so the operator may easily observe the ladder tip while operating the controls. All elevation, extension and rotation controls will operate from this location. The controls will permit the operator to regulate the speed of the aerial functions, within the safe limits, as determined by the manufacturer and NFPA standards. Each control will be equipped, with a positive lock to hold the control in a neutral position, preventing accidental activation. In addition to the neutral lock, a console cover will be provided at the turntable control station. The controls will be so designed to allow the turntable control station to immediately override the tip controls, if equipped, even if the ladder is being operated by the tip controls.

The following items will also be provided at the turntable control station, clearly identified, lighted for nighttime operation and conveniently located for ease of operation and viewing:

- Intercom controls
- Tip tracking light switch
- Emergency stop switch
- Emergency power unit switch
- Operator's load chart
- Two (2) position switch for selecting aerial operational speed

HIGH IDLE

The high idle will be controlled by the microprocessor. The microprocessor will automatically adjust the engine rpm to compensate for the amount of load placed upon the system. The system will include a safety device that allows activation of the high idle, only when the parking brake is set and the transmission is placed in neutral.

Stabilizers, Ascendant Tandem, Rear
Mount Steel, 16' Spread, 18" Pen,
MUX

STABILIZERS

The vehicle will come equipped with a stabilization system consisting of four (4) hydraulically operated stabilizers. The front two (2) will be out and down style, the rear two (2) will be down only. This system will meet or exceed all requirements of the NFPA specifications related to stabilization and setup on sloped surfaces.

The stabilizer/leveling jacks will have a maximum spread of 16' measured from the centerline of the jack footpads when the beams are fully extended. The beams will be 6.88" wide x 9.00" high with 3/4" thick top and bottom plates and 1/2" thick sides of 100,000-PSI minimum yield strength steel. The cylinders will have pilot-operated check valves with thermal relief designed to insure that the beams will not drift out of the stowed position during travel. Wear pads will guide the stabilizers.

The horizontal extension cylinders will be totally enclosed within the beams and will incorporate telescoping hydraulic tubing to supply the jack cylinder hydraulic power. Stabilizer hydraulic hoses will remain stationary during operation of the stabilizers to prevent hose wear and potential failure. The cylinders will be equipped with decelerators to reduce the speed of extension and retraction when the beams are near the fully retracted and extended positions. The stabilizer extension hydraulic cylinders will have the following dimensions: 2.25" bore, 1.38" rod, and 39.25" stroke.

The vertical jack cylinders will be capable of 18.00" ground penetration. The cylinders will be supplied with pilot operated check valves on each jack cylinder to hold the cylinder in the stowed or working position, should a charged line be severed at any point in the hydraulic system. For safety, the integral holding valves will be located in the cylinder base, NOT in the transfer tube. Vertical jack cylinder rods will be fully enclosed by a telescoping inner box to protect the cylinder rods from damage. The stabilizer jack hydraulic cylinders will have the following dimensions: 4.25" bore, 3.00" rod, and 28.88" stroke.

Each stabilizer jack will have a pan that will be a maximum of 14.00" wide so as to allow the extension of the stabilizer between parked cars or other obstacles. This pan will serve as a protective guard and a mounting surface for warning lights. The top, forward, and rear edges will be flanged back 90 degrees for added strength.

STABILIZER PADS

The stabilizer footpad will be 12.00" in diameter. The footpad will be attached to the jack cylinder rod by means of a machined ball at the end of the jack cylinder rod which mates to a socket machined into the footpad. The footpad will have the ability to pivot 20 degrees from horizontal in any direction to allow setup on uneven terrain.

AUXILIARY STABILIZER PADS

An auxiliary ground pad will be supplied for each stabilizer to provide additional load distribution on soft surfaces. The pads will be 31" x 26" and made from lightweight composite material. The ground pressure will not exceed 75 pounds per square inch when the ground pads are used and the apparatus is fully loaded and the aerial device is carrying its rated capacity in any position. The pads will be stored in a double stacked configuration, two (2) behind each rear tandem axle in a single bracket.

STABILIZER CONTROLS

A portable stabilizer control box will be provided. The control box will be weatherproof and oil resistant. Each function and indicator light will be labeled on a metal photo panel. The control box can be taken as far away as 15' from the vehicle with an extension cable.

The stabilizer control box will include the following:

- One (1) green power indicator light for stabilizer control that will be illuminated when the aerial master and "PTO" switches in the cab are activated.
- Four (4) electric toggle switches for stabilizers: each toggle switch will control the extend/retract (front only) and raise/lower of its respective stabilizer to allow vehicle set up in restricted areas and/or on uneven surfaces.
- Auto leveling assist switch: The outrigger control system will incorporate a computerized self leveling system in addition to the standard outrigger controls. The operator will have the option to manually or automatically level the truck. The computerized system will ensure full outrigger extension, proper jack penetration, and will level the vehicle within 1/2 a degree of level for safe operation of the aerial device.
- One (1) electric toggle switch for the engaging the emergency power unit.
- One (1) red "stabilizer not stowed" indicator light: this light will illuminate when the stabilizers are not in the fully stowed position.
- Two (2) fully extended beams green indicator lights: these lights will be illuminated when each of the respective stabilizer beams are fully extended.
- Four (4) firm on ground green indicator lights: each light will be illuminated when its respective stabilizer shoe is in the load supporting condition.

Each toggle switch will activate the engine fast idle automatically.

Manual override will be supplied for each stabilizer control valve.

A "Stabilizers Not Stowed" indicator will be provided in the driver's compartment. It will illuminate automatically whenever the stabilizers are not fully stowed to prevent damage to the apparatus if moved. The stabilizer system will also be wired to the "Do Not Move Indicator Light", which will flash whenever the apparatus parking brake is not fully engaged and the stabilizers are not fully stowed.

CRADLE INTERLOCK SYSTEM

A cradle interlock system will be provided, to prevent the lifting of the aerial from the nested position, until the operator has positioned all the stabilizers in a load supporting configuration. A switch will be installed at the cradle, to prevent operation of the stabilizers once the aerial has been elevated from the nested position.

Stabilizer Pan and Trim Material

STABILIZER PAN AND TRIM MATERIAL

The aerial stabilizer pans will be smooth aluminum, painted to match the lower body color and the aerial stabilizer trim will be painted to match lower body color .

Door, Stabilizer Control Box, Aerial
MUX, Hinged Outboard, Smooth
Aluminum

STABILIZER CONTROL BOX ALUMINUM DOOR

A vertically hinged smooth aluminum door will be provided over the stabilizer control box. The door will be hinged outboard.

0615058 Stabilizer Placement, Cameras
w/Command Zone Color Display, 1
Set

STABILIZER PLACEMENT

There will be two (2) cameras provided and installed on the body, one (1) directly above each stabilizer. The cameras will be activated with a switch in the cab and will provide a picture to specify the fully extended stabilizer position allowing the driver the ability to position the vehicle with the proper clearance for stabilizer deployment.

0793039 Hydraulic System, Ascendant
Tandem Axle

HYDRAULIC SYSTEM

All hose assemblies will be assembled and crimped by the hose manufacturers certified technician.

All manufacturing employees responsible for the installation of hydraulic components will be properly trained. Training will include: proper handling, installation, torque requirements, cleanliness and quality control procedures for hydraulic components.

Hoses used in the aerial hydraulic system will be of a premium quality hose with a high abrasion resistant cover. All pressure hoses will have a working pressure of 4000 psi and a burst pressure rating of 16,000 psi.

All hydraulic fittings and tubing will be plated to minimize corrosion.

The fitting will use an O-ring seal where possible to minimize hydraulic leaks.

An interlock will be provided that prevents activation of the hydraulic pump until the transmission is placed in neutral and the parking brake is set as outlined in the current NFPA 1901 standard.

The system will meet the performance requirement of the current NFPA 1901 standard, which requires adequate cooling less than 2.5 hours of operations.

All hydraulic components that are non-sealing whose failure could result in the movement of the aerial will comply with current NFPA 1901 standards and have burst strength of 4:1.

Dynamic sealing components whose failure could cause aerial movement will have a margin of 2:1 on maximum operating pressure per the current NFPA 1901 standard.

All hydraulic hoses, tubes, and connections will have a minimum burst strength of 4:1 per the current NFPA 1901 standard.

A chassis mounted positive displacement piston pump for consistent pressure and rapid responses will supply hydraulic power for all aerial operations. The positive displacement pump will provide 3,150psi. The hydraulic pump will be solely dedicated to aerial operations.

Each aerial will be evaluated as to the region and climate where it will be used to determine the optimum viscosity and proper oil grade. Oil viscosity will be based on an optimum range of 80 to 1000 SUS during normal aerial use. Before shipment of the unit, an oil sample will be taken and analyzed to confirm the oil is within the allowable ISO grade tolerance.

The aerial hydraulic system will have a minimum oil cleanliness level of ISO 18/15/13 based on the ISO 4406:1999 cleanliness standard. Each customer will receive a certificate of actual cleanliness test results and an explanation of the rating system.

Each aerial will include an oil sample port, identified with a yellow dust cap and a label, for subsequent customer testing.

Ball valves will be provided in the hydraulic suction lines to permit component servicing without draining the oil reservoir.

The aerial will incorporate the use of trombone steel tubes inside the stabilizer beams to eliminate hydraulic hose wear and leaks.

Hydraulic power to the ladder will be transferred from the pedestal by a hydraulic swivel.

The system hydraulic pressure will be displayed on the turntable display.

The hydraulic system will be additionally protected from excessive pressure by a secondary pressure relief valve set at 3,150 psi. In the event the main hydraulic pump compensator malfunctions, the secondary relief will prevent system damage.

HYDRAULIC CYLINDERS

All cylinders used on the aerial device will be produced by a manufacturer that specializes in the manufacture of hydraulic cylinders.

Each cylinder will include integral safety holding cartridges.

Each cylinder will be designed to a minimum safety factor of 4:1 to failure.

All safety holding cartridges will be installed at the cylinder manufacturer, in a controlled clean environment to avoid possible contamination and or failure.

POWER TAKEOFF/HYDRAULIC PUMP

The apparatus will be equipped with a power takeoff driven by the chassis transmission and actuated by an electric shift, located inside the cab. The power takeoff which drives the hydraulic pump will meet all the requirements for the aerial unit operations.

An amber indicator light will be installed on the cab instrument panel to notify the operator that the power takeoff is engaged.

An interlock will be provided that allows operation of the aerial power takeoff shift only after the chassis spring brake has been set and the chassis transmission has either been placed in the neutral position or drive position after the driveline has been disengaged from the rear axle.

The hydraulic system will be supplied by a variable displacement load and pressure compensating piston pump. The pump will meet the demands of all three simultaneous aerial functions. The pump will provide proper flow for single aerial function with the engine at idle speed. A switch will be provided on the control console to increase the engine speed for multiple function operation.

EMERGENCY PUMP

The hydraulic system will be designed with an auxiliary power unit meeting the guidelines of the current NFPA 1901 standard.

The aerial will be equipped with an emergency hydraulic pump, electrically driven from the truck batteries. The pump will be capable of running for 30 minutes for limited aerial functions to stow the unit in case of a main pump or truck system failure. A momentary switch will be located at the stabilizer and aerial control locations to activate the emergency pump.

AERIAL CONTROL VALVE

The aerial hydraulic control valve will be designed with special spool flows, limiting the oil flow for the designed function speed. The valve will be electrically controlled and be located in the control console with the handles oriented downward for manual operation. The activation handles will be spaced a minimum of 3.50" for ease of operation. The valve spools will be designed to bleed off downstream pressure, in the neutral position and allow proper sealing of any cylinder holding cartridge.

OIL RESERVOIR

The oil reservoir will have a minimum capacity of 38 gallons. The oil fill location will be easily

accessible and be labeled "Hydraulic Oil Only" and also indicate the grade of oil that is installed in the reservoir. The fill will have a desiccant breather filter with a water capacity of 4 fluid ounces and a 5 micron rating. A drain hose will be included and will terminate with a quarter turn ball valve.

Two suction ports will be provided, one for the main hydraulic pump and one for the emergency pump. The main suction will be slightly elevated off the bottom of the reservoir and include a 100 mesh suction strainer. The emergency suction port will be closer to the bottom of the reservoir to provide some reserve oil for emergency operation.

A six (6) disc type magnetic drain will also be provided to collect any ferrous contaminants. A float type sending unit in the reservoir will provide an indication of oil level on an electronic display. A temperature sending unit in the reservoir will provide indication of the oil temperature on an electronic display.

The hydraulic oil reservoir will be labeled per the current edition of NFPA 1901 standard.

RETURN FILTER

The low pressure oil return filter will be integrated with the hydraulic manifold and designed to prevent oil loss during filter change. A 50 psi bypass will be included to protect the element and hydraulic system during lower than normal operating temperatures. The system will incorporate the following filter to provide dependable service:

return filter: beta 200 at 6 micron

0793037

Swivels, D-Series w/Encoder, ASL-Tandem/Tiller, MUX (28 Collector Rings)

HYDRAULIC SWIVEL

The aerial ladder will be equipped with a three (3) port, high pressure hydraulic swivel which will connect the hydraulic lines from the hydraulic pump and reservoir through the rotation point to the aerial control bank. The hydraulic swivel will allow for 360 degree continuous rotation of the aerial.

ELECTRIC SWIVEL

The ladder will be equipped with an electric swivel to allow 360 degrees rotation of the aerial while connecting all electrical circuits through the rotation point. A minimum of 28 collector rings will be provided that are capable of supplying 30 amp continuous service. All collector rings will be enclosed and protected with desiccant plugs against condensation and corrosion. No oil or silicone will be used.

12-BIT ABSOLUTE ENCODER

The aerial ladder will be equipped with a 12-Bit Absolute Encoder which provides 4096 counts per shaft turn for position and direction reference.

The 12-Bit Absolute Encoder will provide a unique binary word to reference each position and direction for all 360 degrees of rotation.

If the power is interrupted for any reason, the 12-Bit Absolute Encoder will allow power to be returned to the system without having to re-zero the settings.

The 12-Bit Absolute Encoder will be an integral part of a micro-processor based control system.

ELECTRICAL SYSTEM

The 107' heavy duty ladder will utilize a microprocessor-based control system. The system will consist of the following components:

A tethered stabilizer control will be provided. The tethered control will be weatherproof and oil resistant. A Super Bright LED indicator light will be labeled on a metal photo panel for each function. The electrical connection at the tethered control will be permanently attached by a strained relieved coil cord that will allow the operator to move 14' away from the electrical connection for operation.

Remote Stabilizer Controls

Weatherproof and oil resistant

One (1) green "power" indicator light

One (1) red "stabilizer not stowed" indicator light

One (1) electric toggle switch for auto level assist

One (1) electric toggle switch for the emergency power unit

One (1) electric toggle switch for each stabilizer to control:

Extend/retract function (front only)

Raise/lower function

One (1) green "stabilizer fully extended" indicator light for each front stabilizer

One (1) green "firm on ground" indicator light for each stabilizer

Control System Modules

Each of the control system modules will be configured as follows:

Sealed to a NEMA 4 rating

Operating range from -40 degrees F to 185 degrees F (-40 degrees C to 85 degrees C)

Communicate using J1939 data link

Two (2) diagnostic LED light

One (1) green light that illuminates when module has power (B+) and ground

One (1) red light that flashes to indicate the module is capable of communicating via the data link

Ground matrix identification system

The following control system modules will be used:

Control Module

Main controller for the system

USB connection allows for computer diagnostics

Power Module

Built-in fault sensing

Eight (8) digital outputs

Pulse width modulating (PWM) capable

10A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Constant Current Module

Built-in fault sensing

Three (3) analog inputs

Eight (8) digital outputs

Pulse width modulating (PWM) capable

3A continuous per output

Circuit protection based on actual current draw (not affected by heat)

Closed Loop System**Input Module**

16 software selectable (digital or analog) inputs

Output Module

16 digital outputs

Input/Output Module

Eight (8) software selectable (digital or analog) inputs

Eight (8) digital outputs

0670920

Lights, WIn MPB* Micro LED Trk
Lights Only, 2lts PAL

TRACKING LIGHTS

There will be two (2) Whelen Micro Pioneer, Model MPB* 12 volt DC LED lights furnished on the aerial device.

One (1) installed on the driver's side of the base section of the aerial device.

One (1) installed on the passenger's side of the base section of the aerial device.

The painted parts of this light assembly to be black.

There will be a switch with appropriate identification labels provided at the turntable console for the tracking lights.

0721558

SP

Lights, Tip, WIn MPB* LED, ASL 4lt

TIP LIGHT

There will be four (4) Whelen® Model MPB*, 5,695 lumens 12 volt DC LED lights with adjustable bail mounts installed on the fly section of the aerial device below the handrail height.

One (1) light on the left side high. The left side tip light to include spot optics.

One (1) light on the left side low. The left side lower tip light to include wide flood optics.

One (1) light on the right side low. The right side lower tip light to include wide flood optics.

One (1) light on the right side high. The right side tip light to include spot optics.

The painted parts of this light assembly to be black.

The lights will be controlled with the tracking lights.

0802753

Lights, Tracking, WIn MP** LED, 2lts

TRACKING LIGHTS

There will be two (2) Whelen® MP**, 5,695 lumens 12 volt DC LED lights installed on the base section of the aerial device below the hand rails per the following:

One (1) will be located on the left side with left side tracking light to include spot optics.

One (1) will be located on the right side with spot optics.

The light(s) to be installed on adjustable bail bracket(s).

The painted parts of this light assembly to be black.

The tracking lights will be controlled by a switch located at the platform/tip and turntable.

0653677	Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid, Fly	LIGHTING ON AERIAL LADDER There will be TecNiq, Model D02 LED rung lighting provided on both sides of the aerial ladder base, lower and upper mid, and fly sections. The lighting will be located adjacent to the ladder rungs along the lower rail of the ladder sections and will run the length of the ladder section. The color of the sections will be: The base section of the ladder to be red. The lower mid section of the ladder to be red. The upper mid section of the ladder to be red. The fly section of the ladder to be red. The LED rung lighting will be activated when a switch at the turntable operator's panel is activated through the aerial master. The lights may be load managed when the parking brake is applied.
0616374	Light, Locator, Wln M2W** At Tip, Facing Out, PAL/PAP, 2lts	AERIAL LED LOCATOR LIGHT There will be two (2) Whelen®, Model M2W**, 12 volt flashing LED lights installed at the aerial tip facing out when the aerial boom is in the stowed position. There will be one (1) light on the driver's side and one (1) light on the passenger's side. The color of the lights will be, blue. The warning light lens color(s) to be clear. The light will be activated when the aerial is raised from the cradle.
0540743	Lights, Stabilizer Warn (2) Sets, Wln M6°C LED, Clear Lens	STABILIZER WARNING LIGHTS There will be our (4) Whelen®, Model M6°C, LED flashing warning lights with Whelen, Model M6FC, chrome flanges installed, one (1) on each stabilizer cover panel. The front stabilizer pan lights will be red LED with a clear lens The rear stabilizer pan lights will be red LED with a clear lens These warning lights will be activated by the same switch as the side warning lights.
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	STABILIZER BEAM WARNING LIGHTS Two (2) 4.00" diameter red LED flashing lights will be mounted on each stabilizer, one (1) facing forward and one (1) facing rearward. The lights will be Grote Supernova 40 series LED lights. The lights will be recessed in the horizontal beam of the stabilizer. These warning lights will be activated with the aerial master switch.
0791920	Lights, Stabilizer Scene, (2) Sets, Wln 20C0CDCD LED	STABILIZER SCENE LIGHTS There will be one (1) Whelen, Model 20C0CDCD LED scene light installed under each stabilizer beam to illuminate the surrounding area. A total of four (4) lights will be installed. These lights will be activated by the aerial master switch.
0783034	DC Power To Aerial Tip, 13.92 Amps @ 12 Volt DC, ASL	DC POWER CABLE to TIP There will be a cable installed in the aerial device to provide 13.92 amps @ 12 volts DC to the tip of the aerial device.
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free	2-WAY AERIAL COMMUNICATION SYSTEM There will be a Fire Research model ICA910 two-way intercom system provided. The control module with an LED volume display and push-button volume control will be located on the turntable operator console. A hands free module will be located at the aerial tip or platform and constantly transmit to the other module unless the control module push-to-talk button is pressed. Each intercom unit will be weatherproof.
0540895	Not Required, Breathing Air to Tip, Aerial Ladder	
0024742	Not Required, Mask, Breathing Air To Tip	
0126600	Raised Pedestal, 3.00", Rear Mount Aerials, AXT, Velocity, Impel, Enf	RAISED AERIAL PEDESTAL The aerial pedestal will be raised to accommodate the height of the cab.
0595357	Rope Tie Bar At Base Section, for Lyfe Pulley, DA Box, Ascendant, 105', Tiller	ROPE TIE BAR AT BASE SECTION, RESCUE LIFTING SYSTEM A removable bracket will be supplied at the rear of the base section, attached between the left hand and right hand rear hand rails. The bracket will provide Lyfe Pulley rope tie off and/or guide points spaced 5.75" apart, centered between the rear hand rails. The bracket will be designed to be easily removable and not interfere with a fully retracted ladder assembly when attached to the base section. A DA finished storage box for the bracket will be provided on the outside rear of the base section.

0565615	LyfePulley, Rescue System	<p>RESCUE LIFTING SYSTEM A rescue lifting attachment will be provided. The lifting attachment will mount to the aerial egress and will consist of a pair of nylatron pulleys mounted to a stainless steel shaft. The pulleys will be adjustable from side to side and will have a total lifting capacity of 500lb, regardless of whether one (1) or both pulleys are being utilized.</p>
0604457	Lifting Eye Assembly, Rope Rescue Attachment, ASL, LSL	<p>LIFTING EYE ASSEMBLY - ROPE RESCUE ATTACHMENT A lifting eye assembly will be provided that is designed to evenly distribute load at the tip of the aerial. The lift eye assembly is retained by two (2) locking pins, one (1) at each end outboard side of the egress. Leveling is maintained by the lifting eye assembly rotating within the egress mounting. The lifting eye assembly rating will match the capacity rating of the aerial device.</p>
0645472	Rope Tie Bar At Base Section, for Lyfe Pulley, Painted Box, Ascendant, 105', Tiller	<p>ROPE TIE BAR AT BASE SECTION, RESCUE LIFTING SYSTEM A removable bracket will be supplied at the rear of the base section, attached between the left hand and right hand rear hand rails. The bracket will provide Lyfe Pulley rope tie off and/or guide points spaced 5.75" apart, centered between the rear hand rails. The bracket will be designed to be easily removable and not interfere with a fully retracted ladder assembly when attached to the base section. A storage box for the bracket will be provided on the outside rear of the base section. The storage box and bracket will be painted to match the aerial device.</p>
0791128	Hitch Receiver, 10,000 lb, LS/RS, Under Body Sides, Ascendant TA, PAP/PAL	<p>HITCH, WINCH MOUNT A hitch receiver will be supplied at the left and right side of the vehicle aft of the rear wheels. The hitch will not interfere with the angle of departure and will be tied directly to the frame rails. The hitch will be capable of up to a 10,000 lb direct pull. Receiver plugs will be provided for the receiver when it is not in use.</p>
0530828	Turntable Access, Chains	<p>AERIAL TURNTABLE CHAIN A chain will be installed at the aerial turntable.</p>
0624672	Waterway, High Flow, 1500 GPM, ASL	<p>WATER SYSTEM A waterway system will be provided consisting of the following components and features: A 5.00" pipe will be connected to the water supply on one end and to a 5.00" internal diameter water swivel at the rotation point of the turntable. The water swivel will permit 360 degree continuous rotation of the aerial device. The 5.00" waterway swivel is to be routed through the rotation point up to the heel pin swivel. The heel pin swivel will allow the water to flow to the ladder pipe while elevating the aerial ladder from -10 degrees to 77 degrees. The heel pivot pin is not integral with the waterway swivel at any point. The design of the waterway will allow complete servicing of the waterway swivel without disturbing the heel pivot pin. The integral telescopic water system will consist of a 4.50" diameter tube in the base section, a 4.00" diameter tube in the inner mid-section, a 3.50" diameter tube in the outer mid-section, and a 3.00" diameter tube in the fly section. The telescopic waterway will be constructed of anodized aluminum pipe. The aerial will be capable of discharging up to 1000 gpm at 100 psi parallel to the ladder and 90 degrees to each side of center while maintaining the rated tip load. The aerial will be capable of discharging between 1001 and up to 1500 gallons per minute at 100 psi parallel to the ladder and 40 degrees to each side of center while maintaining the rated tip load. The master stream will be capable of flow up to 30 degrees above horizontal. An adjustable pressure relief valve will be furnished to protect the aerial waterway from a pressure surge. A 1.50" drain valve will be located at the lowest point of the waterway system.</p> <p>WATERWAY SEALS The waterway seals will be of type-B PolyPak design, composed of nitrile seal and a nitrile wiper, which together offer maximum stability and extrusion resistance on the waterway. The seal will be capable of withstanding pressures up to 2000 psi, temperatures in excess of 250 degrees Fahrenheit and have resistance to all foam generating solutions. The seals will be internally lubricated. The waterway seals will have automatic centering guides constructed of synthetic thermalpolymer. The guides will provide positive centering of the extendible sections within each other and the base section to insure longer service life and smoother operation.</p>
0632855	Monitor, Akron 3480 StreamMaster II Electric w/Extended Vertical Travel	<p>AERIAL MONITOR An Akron Model 3480 monitor with stow and deploy will be provided at the tip with a Akron 1500 gpm Model 5178. This monitor will allow for an additional 30 degrees of travel above horizontal at the aerial tip. The monitor's functions will be controlled electrically from two (2) separate locations. One (1) control will be located at the control console and the other at the ladder tip. There will be a courtesy light at the tip of the aerial to illuminate the controls. If the aerial has a quick-lock waterway, a limit switch will be provided to disable the extended vertical travel when the monitor is locked to the lower ladder section.</p>
0010758	Flow Meter, Waterway, PAL, 110' Ascendant, MUX	<p>AERIAL WATERWAY FLOW METER Waterway flow, including total water flowed, will be monitored by the microprocessor. An LCD display will be located at the turntable control station.</p>

0026952	Inlet, 5.00" at Rear w/o Midship Pump, Ascendant Tandem, PAP, PAL, 75' HDL	<p>REAR INLET A 5.00" NST inlet to the aerial waterway will be provided at the rear of the apparatus. It will be furnished with a 5.00" chrome plated adapter and a 5.00" chrome plated, long handle cap.</p>
0673128	Quick-Lock Waterway Locking System, 100' HDL, 105' HDL, ASL	<p>WATERWAY LOCKING SYSTEM The aerial ladder waterway monitor will be capable of being positioned at either the fly section or at the next lower section of the ladder. The monitor location will be changeable by the use of a single handle, located at the side of the ladder. The handle, attached to a cam bracket, will simply be moved forward to lock the monitor at the fly section and back to lock it to the previous section. There will be no pins to remove and reinstall. The monitor will be operational at all times, regardless of its position, without connecting or disconnecting electrical lines.</p>
0047897	Tools, Aerial	<p>TOOLS The following tools will be provided for retorquing of all specified bolts as recommended by the manufacturer: Torque Wrench All Required Extensions, Sockets and Adapters 4-to-1 Multiplier</p>
0559494	Manuals and Training, 3 Consecutive Days, Ascendant Ladder, PAL	<p>MANUALS Two (2) operator maintenance manuals and two (2) wiring diagrams pertaining to the aerial device will be provided with the apparatus at time of pick-up. INITIAL INSTRUCTION On initial delivery of the fire apparatus, the contractor will supply a qualified representative to demonstrate the apparatus and provide initial instruction to the fire department regarding the operation, care, and maintenance of the apparatus for a period of three (3) consecutive days.</p>
0007150	Bag of Nuts and Bolts	<p>LOOSE EQUIPMENT The following equipment will be furnished with the completed unit: One (1) bag of chrome, stainless steel, or cadmium plated screws, nuts, bolts and washers, as used in the construction of the unit.</p>

0602507

NFPA Required Loose Equipment, Aerial, NFPA 2016, Provided by Fire Department

NFPA REQUIRED LOOSE EQUIPMENT PROVIDED BY FIRE DEPARTMENT

The following loose equipment as outlined in NFPA 1901, 2016 edition, section 8.9.3 will be provided by the fire department.

- Two (2) 3 ft - 4 ft plaster hooks with D handles mounted in brackets fastened to the apparatus.
- Two (2) crowbars.
- Two (2) claw tools.
- Two (2) 12 lb (5 kg) sledgehammers.
- One (1) SCBA complying with NFPA 1981 for each assigned seating position, but not fewer than four (4), mounted in brackets fastened to the apparatus or stored in containers supplied by the SCBA manufacturer.
- One (1) spare SCBA cylinder for each SCBA carried, each mounted in a bracket fastened to the apparatus or stored in a specially designed storage space(s).
- One (1) first aid kit.
- Six (6) salvage covers, each a minimum size of 12 ft x 18 ft (3.6 m x 5.5 m).
- Four (4) combination spanner wrenches.
- Two (2) scoop shovels.
- One (1) pair of bolt cutters, 24" (0.6 m) minimum.
- Four (4) ladder belts meeting the requirements of NFPA 1983.
- One (1) 150 ft (45 m) light-use life safety rope meeting the requirements of NFPA 1983.
- One (1) 150 ft (45 m) general-use life safety rope meeting the requirements of NFPA 1983.
- Two (2) 150 ft (45 m) utility ropes having a breaking strength of at least 5000 lb (2300 kg).
- One (1) box of tools to include the following:
 - one (1) hacksaw with three (3) blades
 - one (1) keyhole saw
 - one (1) 12" (.3 m) pipe wrench
 - one (1) 24" (.6 m) pipe wrench
 - one (1) ballpeen hammer
 - one (1) pair of tin snips
 - one (1) pair of pliers
 - one (1) pair of lineman's pliers
 - assorted types and sizes of screwdrivers
 - assorted adjustable wrenches
 - assorted combination wrenches
- One (1) traffic vest for each seating position, each vest to comply with ANSI/ISEA 207, *Standard for High Visibility Public Safety Vests*, and have a five-point breakaway feature that includes two (2) at the shoulders, two (2) at the sides, and one (1) at the front.
- Five (5) fluorescent orange traffic cones not less than 28.00" (711 mm) in height, each equipped with a 6.00" (152 mm) retro-reflective white band no more than 4.00" (152 mm) from the top of the cone, and an additional 4.00" (102 mm) retro-reflective white band 2.00" (51 mm) below the 6.00" (152 mm) band.
- Five (5) illuminated warning devices such as highway flares, unless the five (5) fluorescent orange traffic cones have illuminating capabilities.
- One (1) automatic external defibrillator (AED).
- One (1) double female 2.50" adapter with National Hose Threads (if equipped with a fire pump).
- One (1) double male 2.50" adapter with National Hose Threads (if equipped with a fire pump).
- One (1) rubber mallet, for use on suction hose connections (if equipped with a fire pump).
- Two (2) hydrant wrenches (if equipped with a fire pump).

If the supply hose carried does not use sexless couplings, an additional double female adapter and double male adapter, sized to fit the supply hose carried, will be carried mounted in brackets fastened to the apparatus (if equipped with a fire pump).

If none of the pump intakes are valved, a hose appliance that is equipped with one or more gated intakes with female swivel connection(s) compatible with the supply hose used on one side and a swivel connection with pump intake threads on the other side will be carried. Any intake connection larger than 3.00" (75 mm) will include a pressure relief device that meets the requirements of 16.6.6 (if equipped with a fire pump).

If the apparatus does not have a 2.50" National Hose (NH) intake, an adapter from 2.50" NH female to a pump intake will be carried, mounted in a bracket fastened to the apparatus if not already mounted directly to the intake (if equipped with a fire pump).

If the supply hose carried has other than 2.50" National Hose (NH) threads, adapters will be carried to allow feeding the supply hose from a 2.50" NH thread male discharge and to allow the hose to connect to a 2.50" NH female intake, mounted in brackets fastened to the apparatus if not already mounted directly to the discharge or intake (if equipped with a fire pump).

0602535

Extinguisher, Dry Chemical, Aerial NFPA 2016, Provided by Fire Department

DRY CHEMICAL EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 8.9.3 requires one (1) approved dry chemical portable fire extinguisher with a minimum 80-B:C rating mounted in a bracket fastened to the apparatus. The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

0602354

Extinguisher, 2.5 Gal. Pressurized Water, Aerial, NFPA 2016, Provided by Fire Dept

WATER EXTINGUISHER PROVIDED BY FIRE DEPARTMENT

NFPA 1901, 2016 edition, section 8.9.3 requires one (1) 2.5 gallon or larger water extinguisher mounted in a bracket fastened to the apparatus. The extinguisher is not on the apparatus as manufactured. The fire department will provide and mount the extinguisher.

0007482

Not Required, Crowbars

0007484

Not Required, Claw Tools

0602675	Axes, (2) Flathead, Aerial NFPA 2016, Provided by Fire Department	<p>FLATHEAD AXE PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2016 edition, Section 8.9.3 requires two (2) flathead axes mounted in brackets fastened to the apparatus. The axes are not on the apparatus as manufactured. The fire department will provide and mount the axes.</p>
0602673	Axes, (3) Pickhead, Provided by Fire Department, Aerial NFPA 2016	<p>PICKHEAD AXES PROVIDED BY FIRE DEPARTMENT NFPA 1901, 2016 edition, Section 8.9.3 requires three (3) pickhead axes mounted in brackets fastened to the apparatus. The axes are not on the apparatus as manufactured. The fire department will provide and mount the axes.</p>
0007494	Not Required, Sledgehammers	
0741569	Paint Process / Environmental Requirements, Appleton	<p>PAINT PROCESS The exterior custom cab and body painting procedure will consist of a seven (7) step finishing process as follows: <u>Manual Surface Preparation</u> - All exposed metal surfaces on the custom cab and body will be thoroughly cleaned and prepared for painting. Imperfections on the exterior surfaces will be removed and sanded to a smooth finish. Exterior seams will be sealed before painting. Exterior surfaces that will not be painted include; chrome plating, polished stainless steel, anodized aluminum and bright aluminum treadplate. <u>Chemical Cleaning and Pretreatment</u> - All surfaces will be chemically cleaned to remove dirt, oil, grease, and metal oxides to ensure the subsequent coatings bond well. The aluminum surfaces will be properly cleaned and treated using a high pressure, high temperature 4 step Acid Etch process. The steel and stainless surfaces will be properly cleaned and treated using a high temperature 3 step process specifically designed for steel or stainless. The chemical treatment converts the metal surface to a passive condition to help prevent corrosion. <u>Surfacer Primer</u> - The Surfacer Primer will be applied to a chemically treated metal surface to provide a strong corrosion protective basecoat. A minimum thickness of 2 mils of Surfacer Primer is applied to surfaces that require a Critical aesthetic finish. The Surfacer Primer is a two-component high solids urethane that has excellent sanding properties and an extra smooth finish when sanded. <u>Finish Sanding</u> - The Surfacer Primer will be sanded with a fine grit abrasive to achieve an ultra-smooth finish. This sanding process is critical to produce the smooth mirror like finish in the topcoat. <u>Sealer Primer</u> - The Sealer Primer is applied prior to the Basecoat in all areas that have not been previously primed with the Surfacer Primer. The Sealer Primer is a two-component high solids urethane that goes on smooth and provides excellent gloss hold out when topcoated. <u>Basecoat Paint</u> - Two coats of a high performance, two component high solids polyurethane basecoat will be applied. The Basecoat will be applied to a thickness that will achieve the proper color match. The Basecoat will be used in conjunction with a urethane clear coat to provide protection from the environment. <u>Clear Coat</u> - Two (2) coats of Clear Coat will be applied over the Basecoat color. The Clear Coat is a two-component high solids urethane that provides superior gloss and durability to the exterior surfaces. Lap style and roll-up doors will be Clear Coated to match the body. Paint warranty for the roll-up doors will be provided by the roll-up door manufacturer. After the cab and body are painted, the color will be verified to make sure that it matches the color standard. Electronic color measuring equipment will be used to compare the color sample to the color standard entered into the computer. Color specifications will be used to determine the color match. A Delta E reading will be used to determine a good color match within each family color. All removable items such as brackets, compartment doors, door hinges, and trim will be removed and painted separately if required, to ensure paint behind all mounted items. Body assemblies that cannot be finish painted after assembly will be finish painted before assembly. The paint finish quality levels for critical areas of the apparatus (cab front and sides, body sides and doors, and boom lettering panels) are to meet or exceed Cadillac/General Motors GMW15777 global paint requirements. Orange peel levels are to meet or exceed the #6 A.C.T. standard in critical areas. The manufacture's written paint standards will be available upon request.</p> <p>Environmental Impact Contractor will meet or exceed all current state regulations concerning paint operations. Pollution control will include measures to protect the atmosphere, water and soil. Controls will include the following conditions: Topcoats and primers will be chrome and lead free. Metal treatment chemicals will be chrome free. The wastewater generated in the metal treatment process will be treated on-site to remove any other heavy metals. Particulate emission collection from sanding operations will have a 99.99 percent efficiency factor. Particulate emissions from painting operations will be collected by a dry filter or water wash process. If the dry filter is used, it will have an efficiency rating of 98 percent. Water wash systems will be 99.97 percent efficient Water from water wash booths will be reused. Solids will be removed on a continual basis to keep the water clean. Paint wastes are disposed of in an environmentally safe manner. Empty metal paint containers will be recycled to recover the metal. Solvents used in clean-up operations will be recycled on-site or sent off-site for distillation and returned for reuse. Additionally, the finished apparatus will not be manufactured with or contain products that have ozone depleting substances. Contractor will, upon demand, present evidence that the manufacturing facility meets the above conditions and that it is in compliance with his state EPA rules and regulations.</p>

0709566	Paint, Two-Tone Color, Enforcer	<p>TWO-TONE CAB PAINT The cab will be painted two-tone with the upper section painted #101 black and the lower section painted #114 Red. There will be a standard two-tone cab paint break provided. There will be a deep cab shield provided.</p>
0709833	Paint, Two-Tone Color, Body	<p>TWO-TONE BODY PAINT The body will be painted two-tone with the upper section painted to match the upper section of the cab and the lower section painted to match the lower section of the cab. The body paint break will be at the seam between the body and hatch compartment or catwalk on each side.</p>
0646901	Paint Chassis Frame Assy, With Liner, E-Coat, Standard	<p>PAINT CHASSIS FRAME ASSEMBLY The chassis frame assembly will be finished with a single system black top coat before the installation of the cab and body, and before installation of the engine and transmission assembly, air brake lines, electrical wire harnesses, etc. Components that are included with the chassis frame assembly that will be painted are: Frame rails Frame liners Cross members Axles Suspensions Steering gear Battery boxes Bumper extension weldment Frame extensions Body mounting angles Rear Body support substructure (front and rear) Pump house substructure Air tanks Steel fuel tank Castings Individual piece parts used in chassis and body assembly Components treated with epoxy E-coat protection prior to paint: Two (2) C-channel frame rails Two (2) frame liners The E-coat process will meet the technical properties shown.</p>
0693797	No Paint Required, Aluminum Front Wheels	
0693792	No Paint Required, Aluminum Rear Wheels	
0733739	Paint, Axle Hubs	<p>AXLE HUB PAINT All axle hubs will be painted black #101.</p>
0007230	Compartment, Painted, Spatter Gray	<p>COMPARTMENT INTERIOR PAINT The interior of all compartments will be painted with a gray spatter finish for ease of cleaning and to make it easier to touch up scratches and nicks.</p>

0782203	Aerial Ladder Paint, ASL-Tandem, LSL, E-Coat	<p>AERIAL DEVICE PAINT COLOR</p> <p>The aerial device paint procedure will consist of a six (6) step finishing process as follows:</p> <ol style="list-style-type: none"> 1. <u>Manual Surface Preparation</u> - All exposed metal surfaces on the aerial device structural components above the rotation point will be thoroughly cleaned and mechanically shot-blasted to remove metal impurities and prepare the aerial for painting. 2. <u>Primer/Surfacers Coats</u> - A two (2) component urethane primer/surfacer will be applied to the mechanically shot-blasted metal surfaces to provide a strong corrosion protective base coat and to smooth out the surface. All seams will be caulked with a two (2) component epoxy caulk before painting. 3. <u>Hand Sanding</u> - The primer/surfacer coat of the outer surfaces of the hand rails and base rails will be lightly sanded to a smooth finish. 4. <u>Sealer Primer Coat</u> - A two (2) component sealer primer coat will be applied over the sanded primer. 5. <u>Topcoat Paint</u> - Urethane base coat will be applied to opacity for correct color matching. 6. <u>Clearcoat</u> - Two (2) coats of an automotive grade two (2) component urethane will be applied. Surfaces that will not be painted include all chrome plated, polished stainless steel, anodized aluminum and bright aluminum treadplate. <p>All buy out components, such as monitor, nozzle, gauges, etc. will be supplied as received from the vendor.</p> <p>Removable items such as brackets will be removed and painted separately to ensure paint coverage behind all mounted items.</p> <p>The stabilizer beams and torque box will be treated with epoxy E-coat prior to painting to help provide resistance to corrosion and chemicals. The stabilizers and torque box will be painted black.</p> <p>The aerial device components will be painted as follows using the aforementioned six (6) step finishing process:</p> <p>Aerial device ladder sections and extension cylinders: black 101 Aerial egress: 80 red (will be contrasting color to the aerial device ladder) Aerial turntable: black 101 Aerial control console: black 101 Aerial lift cylinders: black 101 Aerial boom support: gloss black primer</p>
0605221	SP Reflective Band, 9"	<p>REFLECTIVE BAND</p> <p>An 9.00" black reflective band will be provided across the front of the vehicle and along the sides of the cab and body.</p>
0007356	Reflective across Cab Face	The reflective band provided on the cab face will be at the headlight level.
0583454	Stripe, Chevron, Rear, Diamond Grade, Aerial	<p>REAR CHEVRON STRIPING</p> <p>There will be alternating chevron striping located on the rear-facing vertical surface of the apparatus. Covered surfaces will include the rear wall and aluminum doors. Rear compartment doors, stainless steel access doors, and the rear bumper will not be covered.</p> <p>The colors will be red and yellow diamond grade.</p> <p>Each stripe will be 6.00" in width.</p> <p>This will meet the requirements of the current edition of NFPA 1901, which states that 50% of the rear surface will be covered with chevron striping.</p>
0598754	Stripe, Reflective/Diamond Grade, 4.00" on Stabilizers	<p>REFLECTIVE STRIPE ON STABILIZERS</p> <p>There will be a 4.00" wide yellow reflective stripe provided on the forward and rear facing side of all aerial stabilizers.</p>
0679885	Stripe, Sign Gold Outline Above & Below Reflective Band	<p>SIGN GOLD STRIPE</p> <p>There will be a Sign Gold stripe applied above and below the reflective band. The sign gold stripes will be .50" wide with an outline.</p>
0065687	Stripe, Reflective, Cab Doors Interior	<p>CAB DOOR REFLECTIVE STRIPE</p> <p>A 6.00" x 16.00" black reflective stripe will be provided across the interior of each cab door. The stripe will be located approximately 1.00" up from the bottom, on the door panel.</p> <p>This stripe will meet the NFPA 1901 requirement.</p>
0679822	Stripe, Sign Gold, Two-Tone Paint Break with Shield, IPO Chrome Molding	<p>CAB STRIPE</p> <p>There will be a Sign Gold stripe provided on both sides of the cab in place of the chrome molding and on the cab face with shield.</p>
0679904	Stripe, Sign Gold, Box, Boom Sign without Scrolls, Aerial	<p>BOOM SIGN STRIPING</p> <p>There will be Sign Gold stripes along all edges of the aerial boom sign.</p>
0027372	Lettering Specifications, (GOLD STAR Process)	<p>LETTERING</p> <p>The lettering will be totally encapsulated between two (2) layers of clear vinyl.</p>

0686428	Lettering, Gold Leaf, 3.00", (41-60)	LETTERING Forty-one (41) to sixty (60) genuine gold leaf lettering, 3.00" high, with outline and shade will be provided.
0685750	Lettering, Sign Gold, 9.00", Each	LETTERING There will be sign gold lettering, 9.00" high, with outline and shade provided. There will be two (2) letters provided.
0685754	Lettering, Sign Gold, 8.00", Each	LETTERING There will be sign gold lettering, 8.00" high, with outline and shade provided. There will be 28 letters provided.
0685800	Lettering, Sign Gold, 6.00", Each	LETTERING There will be sign gold lettering, 6.00" high, with outline and shade provided. There will be six (6) letters provided.
0685806	Lettering, Sign Gold, 5.00", Each	LETTERING There will be sign gold lettering, 5.00" high, with outline and shade provided. There will be six (6) letters provided.
0037227	Lettering, Reflective, Reverse Cut Into Reflective Band	REFLECTIVE LETTERING nine (9) letters, 6.00" high will be cut into the reflective stripe to allow the painted surface to form the letter. The letters will be each side rear of body a LS1/RS1 and on front of cab, "ECF", Reference job #35556.
0769753	Emblem, American Flag Painted on Cab Grille, All Custom Chassis	CAB GRILLE DESIGN An American flag design will be painted on the cab grille.
0599008	Rust Proof/Undercoat, Custom Chassis	CUSTOM CHASSIS RUST PROOF / UNDERCOAT The rust proof/undercoat option will provide additional paint to the chassis frame rails and a protective coating that will help fight corrosion. Rust proof / Undercoat Process A coating will be applied to the custom chassis once the cab, pump and body mounting angles have been installed. The coating texture will be waxy and pliable after drying so it will not chip, crack, or peel off during normal vehicle operations. The rust proofing material will be the color black, and is a coating of a corrosion inhibitor for long-term protection against corrosion. The material will be applied to the following areas: Outside of the chassis frame rails (top & side) Top of the frame rails Top of crossmembers Inside of the frame rails - in and around harnesses keeping coating off harnesses as best as possible Between the frame and liner - coating will be applied after frame and liner are assembled using a wand to apply material between as best as possible Top of the body mounting angles (including rear platform) Top of air tanks Top of fuel tank
0772003	Manual, Fire Apparatus Parts, USB Flash Drive, Custom	FIRE APPARATUS PARTS MANUAL There will be one (1) custom parts manual(s) in USB flash drive format for the complete fire apparatus provided. The manual(s) will contain the following: Job number Part numbers with full descriptions Table of contents Parts section sorted in functional groups reflecting a major system, component, or assembly Parts section sorted in alphabetical order Instructions on how to locate parts Each manual will be specifically written for the chassis and body model being purchased. It will not be a generic manual for a multitude of different chassis and bodies. Service Parts Internet Site The service parts information included in these manuals are also available on the Pierce website. The website offers additional functions and features not contained in this manual, such as digital photographs and line drawings of select items. The website also features electronic search tools to assist in locating parts quickly.

0772037	Manual, Chassis Service, USB Flash Drive, Custom	<p>CHASSIS SERVICE MANUALS There will be one (1) chassis service manuals on USB flash drives containing parts and service information on major components provided with the completed unit. The manual will contain the following sections: Job number Table of contents Troubleshooting Front Axle/Suspension Brakes Engine Tires Wheels Cab Electrical, DC Air Systems Plumbing Appendix The manual will be specifically written for the chassis model being purchased. It will not be a generic manual for a multitude of different chassis and bodies.</p>
0773381	Manual, Chassis Operation, (1) USB Flash Drive, Custom	<p>CHASSIS OPERATION MANUAL The chassis operation manual will be provided on one (1) USB flash drive.</p>
0030008	Warranty, Basic, 1 Year, Apparatus, WA0008	<p>ONE (1) YEAR MATERIAL AND WORKMANSHIP A Pierce basic apparatus limited warranty certificate, WA0008, is included with this proposal.</p>
0651119	Warranty, Engine, Cummins, 10 Year/200,000 Mile Major Components	<p>ENGINE WARRANTY A Cummins ten (10) year, 200,000 miles limited major engine component warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.</p>
0684953	Warranty, Steering Gear, Sheppard M110, 3 Year WA0201	<p>STEERING GEAR WARRANTY A Sheppard three (3) year limited steering gear warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.</p>
0596017	Warranty, Frame, 50 Year, Custom Chassis, WA0013	<p>FIFTY (50) YEAR STRUCTURAL INTEGRITY The Pierce custom chassis frame limited warranty certificate, WA0013, is included with this proposal.</p>
0595698	Warranty, Axle, 3 Year, TAK-4, WA0050	<p>FRONT AXLE THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY The Pierce TAK-4 suspension limited warranty certificate, WA0050, is included with this proposal.</p>
0733305	Warranty, Tandem Axle, 5 Year, Meritor, General Service, WA0384	<p>TDM REAR AXLE FIVE (5) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor™ Axle 5 year limited warranty will be provided.</p>
0652758	Warranty, ABS Brake System, 3 Year, Meritor Wabco, WA0232	<p>ABS BRAKE SYSTEM THREE (3) YEAR MATERIAL AND WORKMANSHIP WARRANTY A Meritor Wabco™ ABS brake system limited warranty certificate, WA0232, is included with this proposal.</p>
0019914	Warranty, Structure, 10 Year, Custom Cab, WA0012	<p>TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce custom cab limited warranty certificate, WA0012, is included with this proposal.</p>
0744240	Warranty, Paint, 10 Year, Cab, Pro-Rate, WA0055	<p>TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce cab limited pro-rated paint warranty certificate, WA0055, is included with this proposal.</p>
0524627	Warranty, Electronics, 5 Year, MUX, WA0014	<p>FIVE (5) YEAR MATERIAL AND WORKMANSHIP The Pierce Command Zone electronics limited warranty certificate, WA0014, is included with this proposal.</p>
0695416	Warranty, Pierce Camera System, WA0188	<p>CAMERA SYSTEM WARRANTY A Pierce fifty four (54) monthwarranty will be provided for the camera system.</p>
0647720	Warranty, Pierce LED Strip Lights, WA0203	<p>COMPARTMENT LIGHT WARRANTY The Pierce 12 volt DC LED strip lights limited warranty certificate, WA0203, is included with this proposal.</p>

0046369	Warranty, 5-year EVS Transmission, Standard Custom, WA0187	TRANSMISSION WARRANTY The transmission will have a five (5) year/unlimited mileage warranty covering 100 percent parts and labor. The warranty will be provided by Allison Transmission. Note: The transmission cooler is not covered under any extended warranty you may be getting on your Allison Transmission. Please review your Allison Transmission warranty for coverage limitations.
0685945	Warranty, Transmission Cooler, WA0216	TRANSMISSION COOLER WARRANTY The transmission cooler will carry a five (5) year parts and labor warranty (exclusive to the transmission cooler). In addition, a collateral damage warranty will also be in effect for the first three (3) years of the warranty coverage and will not exceed \$10,000 per occurrence. A copy of the warranty certificate will be submitted with the bid package.
0596025	Warranty, Structure, 10 Year, Body, WA0009	TEN (10) YEAR STRUCTURAL INTEGRITY The Pierce apparatus body limited warranty certificate, WA0009, is included with this proposal.
0693127	Warranty, Gortite, Roll-up Door, 6 Year, WA0190	ROLL UP DOOR MATERIAL AND WORKMANSHIP WARRANTY A Gortite roll-up door limited warranty will be provided. The mechanical components of the roll-up door will be warranted against defects in material and workmanship for the lifetime of the vehicle. A six (6) year limited warranty will be provided on painted and satin roll up doors. The limited warranty certificate, WA0190, is included with this proposal.
0006999	Warranty, Structure, 20 Year, Aerial Device, WA0052	TWENTY (20) YEAR AERIAL DEVICE STRUCTURAL INTEGRITY WARRANTY The Pierce device limited warranty certificate, WA0052, is included with this proposal.
0687388	Warranty, Swivels, 5 Year, Aerial Device, WA0197	AERIAL SWIVEL WARRANTY An Amity five (5) year limited swivel warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.
0685727	Warranty, Hydraulic System and Components, 3 Year/5 Year, WA0200	HYDRAULIC SYSTEM COMPONENTS WARRANTY Aerial hydraulic system components will be provided with a five (5) year material and workmanship limited warranty. HYDRAULIC SEAL WARRANTY Aerial hydraulic seals will be provided with a three (3) year material and workmanship limited warranty. A copy of the warranty certificates will be submitted with the bid package.
0687327	Warranty, Waterway, 10 Year, Aerial Device, WA0198	AERIAL WATERWAY WARRANTY An Amity ten (10) year limited waterway warranty will be provided. A copy of the warranty certificate will be submitted with the bid package.
0595860	Warranty, Paint, 4 Year, Aerial Device, Pro-Rated, WA0047	FOUR (4) YEAR PRO-RATED PAINT AND CORROSION A Pierce aerial device limited pro-rated paint warranty certificate, WA0047, is included with this proposal.
0595820	Warranty, Paint, 10 Year, Body, Pro-Rate, WA0057	TEN (10) YEAR PRO-RATED PAINT AND CORROSION A Pierce body limited pro-rated paint warranty certificate, WA0057, is included with this proposal.
0595421	Warranty, Goldstar, 3 Year, Apparatus, WA0018	THREE (3) YEAR MATERIAL AND WORKMANSHIP The Pierce Goldstar gold leaf lamination limited warranty limited warranty certificate, WA0018, is included with this proposal.
0683627	Certification, Vehicle Stability, CD0156	VEHICLE STABILITY CERTIFICATION The fire apparatus manufacturer will provide a certification stating the apparatus complies with NFPA 1901, current edition, section 4.13, Vehicle Stability. The certification will be provided at the time of bid.
0736243	Certification, Engine Installation, Enforcer, Cummins X12, 2021, CD0170	ENGINE INSTALLATION CERTIFICATION The fire apparatus manufacturer will provide a certification, along with a letter from the engine manufacturer stating they approve of the engine installation in the bidder's chassis. The certification will be provided at the time of delivery.

0686786	Certification, Power Steering, CD0098	<p>POWER STEERING CERTIFICATION The fire apparatus manufacturer will provide a certification stating the power steering system as installed meets the requirements of the component supplier. The certification will be provided at the time of bid.</p>
0892691	Certification, Cab Integrity, Saber FR/Enforcer, CD0189	<p>CAB INTEGRITY CERTIFICATION The fire apparatus manufacturer will provide a cab crash test certification with this proposal. The certification will state that a specimen representing the substantial structural configuration of the cab has been tested and certified by an independent third party test facility. Testing events will be documented with photographs, real-time and high-speed video, vehicle accelerometers, cart accelerometers, and a laser speed trap. The fire apparatus manufacturer will provide a state licensed professional engineer to witness and certify all testing events. Testing will meet or exceed the requirements below: SAE J2422 Cab Roof Strength Evaluation - Quasi-Static Loading Heavy Trucks. European Occupant Protection Standard ECE Regulation No.29. SAE J2420 COE Frontal Strength Evaluation - Dynamic Loading Heavy Trucks.</p> <p>Side Impact The cab will be subjected to dynamic preload where a 14,320-lb moving barrier is slammed into the side of the cab at 5.50 mph, striking with an impact of 13,000 ft-lb of force. This test is part of the SAE J2422 test procedure and more closely represents the forces a cab will see in a rollover incident.</p> <p>Frontal Impact The same cab will withstand a frontal impact of 32,600 ft-lb of force using a moving barrier in accordance with SAE J2420.</p> <p>Additional Frontal Impact The same cab will withstand a frontal impact of 65,098 ft-lb of force using a moving barrier. (Twice the force required by SAE J2420)</p> <p>Roof Crush The cab will be subjected to a roof crush force of 22,500 lb. This value meets the ECE 29 criteria, and is equivalent to the front axle rating up to a maximum of ten (10) metric tons.</p> <p>Additional Roof Crush The same cab will be subjected to a roof crush force of 110,000 lbs. (Four and a half times the load criteria of ECE 29) The same cab will withstand all tests without any measurable intrusion into the survival space of the occupant area. There will be no exception to any portion of the cab integrity certification. Nonconformance will lead to immediate rejection of bid.</p>
0631973	Certification, Cab Door Durability, Saber FR/Enforcer, CD0137	<p>CAB DOOR DURABILITY CERTIFICATION Robust cab doors help protect occupants. Cab doors will survive a 200,000 cycle door slam test where the slamming force exceeds 20 G's of deceleration. The bidder will certify that the sample doors similar to those provided on the apparatus have been tested and have met these criteria without structural damage, latch malfunction, or significant component wear.</p>
0631978	Certification, Windshield Wiper Durability, Saber FR/Enforcer, CD0132	<p>WINDSHIELD WIPER DURABILITY CERTIFICATION Visibility during inclement weather is essential to safe apparatus performance. Windshield wipers will survive a 3 million cycle durability test in accordance with section 6.2 of SAE J198 <i>Windshield Wiper Systems - Trucks, Buses and Multipurpose Vehicles</i>. The bidder will certify that the wiper system design has been tested and that the wiper system has met these criteria.</p>
0631974	Certification, Electric Window Durability, Saber FR/Enforcer, CD0133	<p>ELECTRIC WINDOW DURABILITY CERTIFICATION Cab window roll-up systems can cause maintenance problems if not designed for long service life. The window regulator design will complete 30,000 complete up-down cycles and still function normally when finished. The bidder will certify that sample doors and windows similar to those provided on the apparatus have been tested and have met these criteria without malfunction or significant component wear.</p>
0631977	Certification, Seat Belt Anchors and Mounting, Saber FR/Enforcer, CD0134	<p>SEAT BELT ANCHOR STRENGTH Seat belt attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat belt anchor design will withstand 3000 lb of pull on both the lap and shoulder belt in accordance with FMVSS 571.210 Seat Belt Assembly Anchorages. The bidder will certify that each anchor design was pull tested to the required force and met the appropriate criteria.</p> <p>SEAT MOUNTING STRENGTH Seat attachment strength is regulated by Federal Motor Vehicle Safety Standards and should be validated through testing. Each seat mounting design will be tested to withstand 20 G's of force in accordance with FMVSS 571.207 Seating Systems. The bidder will certify, at time of delivery, that each seat mount and cab structure design was pull tested to the required force and met the appropriate criteria.</p>

0735949	Certification, Cab HVAC System Performance, SFR/Enf, CD0165/CD0167/CD0174/CD0175	<p>PERFORMANCE CERTIFICATIONS</p> <p>Cab Air Conditioning Good cab air conditioning temperature and air flow performance keeps occupants comfortable, reduces humidity, and provides a climate for recuperation while at the scene. The cab air conditioning system will cool the cab from a heat-soaked condition at 100 degrees Fahrenheit to an average of 78 degrees Fahrenheit in 30 minutes. The bidder will certify that a substantially similar cab has been tested and has met these criteria.</p> <p>Cab Defroster Visibility during inclement weather is essential to safe apparatus performance. The defroster system will clear the required windshield zones in accordance with SAE J381 Windshield Defrosting Systems Test Procedure And Performance Requirements - Trucks, Buses, And Multipurpose Vehicles. <i>The bidder will certify that the defrost system design has been tested in a cold chamber and passes the SAE J381 criteria.</i></p> <p>Cab Auxiliary Heater <i>Good cab heat performance and regulation provides a more effective working environment for personnel, whether in-transit, or at a scene. An auxiliary cab heater will warm the cab 77 degrees Fahrenheit from a cold-soak, within 30 minutes when tested using the coolant supply methods found in SAE J381. The bidder will certify, at time of delivery, that a substantially similar cab has been tested and has met these criteria.</i></p>
0545073	Amp Draw Report, NFPA Current Edition	<p>AMP DRAW REPORT The bidder will provide, at the time of bid and delivery, an itemized print out of the expected amp draw of the entire vehicle's electrical system. The manufacturer of the apparatus will provide the following: Documentation of the electrical system performance tests. A written load analysis, which will include the following: The nameplate rating of the alternator. The alternator rating under the conditions specified per: Applicable NFPA 1901 or 1906 (Current Edition). The minimum continuous load of each component that is specified per: Applicable NFPA 1901 or 1906 (Current Edition). Additional loads that, when added to the minimum continuous load, determine the total connected load. Each individual intermittent load. All of the above listed items will be provided by the bidder per the applicable NFPA 1901 or 1906 (Current Edition).</p>
0002758	Amp Draw, NFPA/ULC Radio Allowance	
0799248	Appleton/Florida BTO	
0000049	Ascendant BODY	
0000012	PIERCE CHASSIS	
0004713	ENGINE, OTHER	
0046396	EVS 4000 Series TRANSMISSION	
0020015	ABS SYSTEM	
0755453	AERIAL BASE	



Turning Performance Analysis

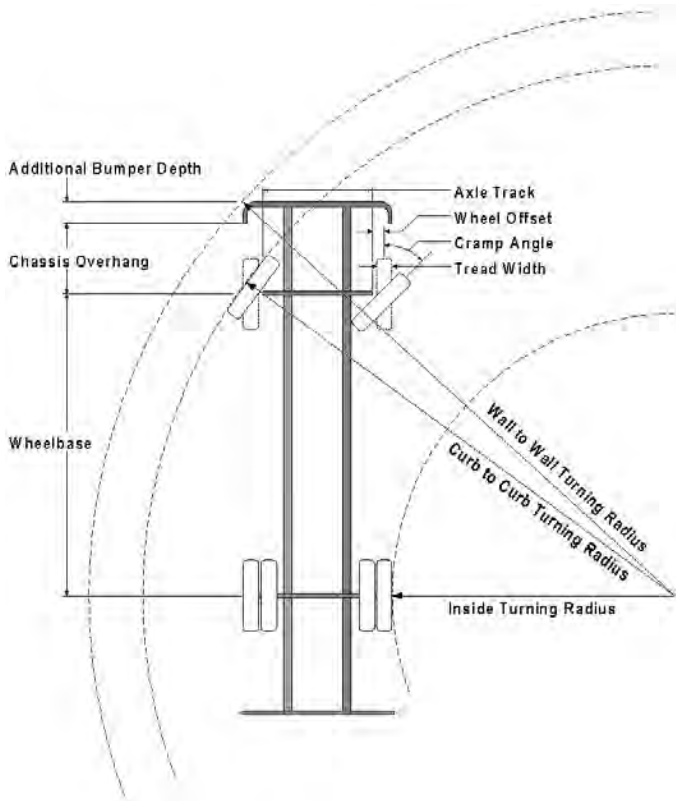
07/22/2022

Bid Number: 774

Department: El Dorado County Fire District

Chassis: Enforcer Chassis, Aerials, Tandem Axle, Ascendant/LSL

Body: Aerial, HD Ladder 107' ASL Tandem, No Pump, Alum Body



Parameters:

*Inside Cramp Angle:	45°
Axle Track:	82.92 in.
Wheel Offset:	4.68 in.
Tread Width:	16.3 in.
Chassis Overhang:	65.95 in.
Additional Bumper Depth:	13 in.
Front Overhang:	78.95 in.
Wheelbase:	248.5 in.

Calculated Turning Radii:

Inside Turn:	19 ft. 8 in.
Curb to curb:	35 ft. 7 in.
Wall to wall:	39 ft. 7 in.

Category	Option	Description
Aerial Devices	0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH
Axle, Front, Custom	0629940	Axle, Front, Oshkosh TAK-4, Non Drive, 22,800 lb, Enforcer
Bumpers	0606555	Bumper, 13" Extended, Steel Painted, 8.00" High, Saber FR/Enforcer
Wheels, Front	0019611	Wheels, Front, Alcoa, 22.50" x 12.25", Aluminum, Hub Pilot
Tires, Front	0899438	Tires, Front, Goodyear, Armor MAX MSA, 425/65R22.50, 20 ply

Notes:

*Actual Inside cramp angle may be less than shown.

Curb to Curb turning radius calculated for 9.00 inch curb.

Definitions:

Inside CrampAngle	Maximum turning angle of the front inside fire.
Axle Track	King-pin to King-pin distance of front axle.
Wheel Offset	Offset from the center line of the wheel to the King-pin.
Tread Width	Width of the tire tread.
Chassis Overhang	Distance of the center line of the front axle to the front edge of the cab. This does not include the bumper depth.
Additional Bumper Wheel	Depth that the bumper assembly adds to the front overhang.
Wheelbase	Distance between the center lines of the vehicles front and rear axles.
Inside Turning Radius	Radius of the smallest circle around which the vehicle can turn.
Curb to Curb Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures assumes a curb height of 9 inches.
Wall to Wall Turning Radius	Radius of the smallest circle around which the vehicle's tires can turn. This measures takes into account any front overhang due to chassis , bumper extensions and or aerial devices.



Electrical Analysis

7/22/2022

Bid #: 774 **Job #:**

Desc: EDC 107' BMP **Sales Rep:** Hansen, Brad

Customer: El Dorado County Fire District **Organization:** Golden State Fire Apparatus, Inc

Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT **Type:** Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0001244	High Idle w/Electronic Engine, Custom		0.00	1.20	0.00
0002526	Light, Engine Compt, All Custom Chassis		0.00	1.60	0.00
0002617	PTO switch, w/light - aerial		0.00	0.00	0.08
0010673	ABS Wabco Brake System, Tandem Rear Axle		0.00	6.00	0.00
0010758	Flow Meter, Waterway, PAL, 110' Ascendant, MUX		0.00	0.00	0.50
0059581	Buzzer, Warning - Button, Qty, Location		0.00	0.01	0.00
0079211	Batteries, (6) Exide Grp 31, 950 CCA each, Threaded Stud		0.00	3.00	0.00
0548004	Wiring, Spare, 15 A 12V DC 1st		0.00	0.00	15.00
0561471	Lights, Backup, WIn M6BUW, LED, For Tail Lt Housing		0.00	3.20	0.00
0568733	Wiring, Spare, 5 A 12V DC 1st		0.00	0.00	10.00
0589905	Alarm, Back-up Warning, PRECO 1040		0.00	0.50	0.00
0602586	Wiring, Spare, 2.0 A 12V DC, USB Termination Blue Sea 1016		0.00	0.00	5.00
0602623	Portable Hand Light, Provided by Fire Dept, Aerial NFPA 2016		0.00	0.50	0.00
0610968	Wiring, Spare, 2.0 A 12V DC, USB Termination Blue Sea 1016 1st		0.00	0.00	2.50
0630636	Controls, Electric Roll-Up Windows, 4dr, 4 Driver Controls, Saber		0.00	26.00	0.00
0639727	Cab Lift, Elec/Hyd, Manual Override, Saber FR/Enforcer		0.00	180.00	0.00
0653677	Lighting, Rung, LED, TecNiq, 4 Section, Base, Lower/Upper Mid,		0.00	0.00	7.20
0653937	Flasher, Headlight Alternating		0.00	0.00	0.08
0672937	Lights, Side, WIn WIONSMC* LED, Chrome Flange, Mounted In		0.00	0.00	6.00
0687994	Engine Brake, Jacobs Compression Brake, Cummins Engine		0.00	0.42	0.00
0689156	Intercom, Sigtronics US-45D, 4-pos, 2 Dual-Radio, D,O,2C		0.00	0.00	0.08
0737181	Intercom, 2-Way Fire Research ICA910 Hands Free		0.00	0.00	0.50
0748793	Lights, WIn, S44M** 44" 12VDC, RS Body		0.00	0.00	10.80
0748795	Lights, WIn, S44M** 44" 12VDC, LS Body		0.00	0.00	10.80
0755515	Camera, Pierce, Drivers Mux Display, R, RS Cameras		0.00	1.20	0.00
0764088	Wiring, Spare, 47.5 A 12V DC, Cust Install Radio, 40A Bat Dir,		0.00	0.00	47.50
0774308	Lights, WIn, P*H2* Pioneer, 12 VDC, 2nd		0.00	0.00	13.00
0774309	Lights, WIn, P*H2* Pioneer, 12 VDC, 1st		0.00	0.00	13.00
0776357	Light, Visor, WIn, 12V P*H2* Pioneer, Cnt Feature, 1st		0.00	0.00	26.00
0802935	Light, Directional, WIn M62T* LED, Cmn Bzl, Above Headlights,		0.00	1.50	0.00
0803875	Radio, AM/FM/WB, Jensen, Frt,Rear Aux In/Frt,Rear		0.00	0.00	2.00
0895310	Siren, Federal Q2B		0.00	100.00	0.00
0548006	Wiring, Spare, 15 A 12V DC 2nd	Load Managed	0.00	0.00	30.00
0585914	Wiring, Spare, 20 A 12V DC, 6 Circuit Fuse Block, Blue Sea 5025	Load Managed	0.00	0.00	20.00
0641696	Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block, Blue Sea	Load Managed	0.00	0.00	20.00
0657222	Wiring, Spare, 20 A 12V DC, 12 Circuit Fuse Block, Blue Sea	Load Managed	0.00	0.00	20.00
0722696	HVAC, Enforcer, CARE	Load Managed	0.00	0.00	100.00
0002615	Switch, Aerial 12V Master	NFPA	0.08	0.00	0.00
0002758	Amp Draw, NFPA/ULC Radio Allowance	NFPA	5.00	0.00	0.00
0033662	Compt w/No Pump, 60" Wide w/DbI Doors	NFPA	1.80	0.00	1.80
0063692	Compt, LS Turntable, F/H F/D, Lap Drs, Ascendant Tandem, 105	NFPA	1.80	0.00	1.80
0063726	Compt, RS F/H F/D, Lap Drs, w/o Chute, Ascendant Tandem, 105	NFPA	2.70	0.00	2.70
0063732	Compt, RS Turntable, F/H F/D, Lap Drs, Ascendant Tandem, 105	NFPA	1.80	0.00	1.80
0068703	Lights, Grote Supernova LED, Stabilizer Beam, (1) Set	NFPA	1.60	0.00	0.00
0088745	Light, Rear Zone Up, WIn L31HRFN LED Beacon, Red LED	NFPA	3.20	4.80	0.00
0092582	Load Manager/Sequencer, MUX	NFPA	0.56	0.56	0.00
0511569	Lights, Clearance/Marker/ID, Rear, P25 LED 7Lts	NFPA	0.50	0.00	0.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/22/2022

Bid #: 774
Desc: EDC 107' BMP
Customer: El Dorado County Fire District
Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT

Job #:
Sales Rep: Hansen, Brad
Organization: Golden State Fire Apparatus, Inc
Type: Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0525667	Siren, WIn 295SLSA1, 100 or 200 Watt	NFPA	1.56	14.06	0.00
0540384	Lights, Front Zone, WIn M6*C LED, Clear Lens, in Common Bzl	NFPA	1.80	2.70	0.00
0540692	Lights, Side Zone Lower, WIn M6*C LED, Clear Lens, 3pr, Ovr 25	NFPA	5.40	8.10	0.00
0540743	Lights, Stabilizer Warn (2) Sets, WIn M6*C LED, Clear Lens	NFPA	3.60	5.40	0.00
0542387	Compt, IPO Chute, Rear Access, Tandem Axle, Smooth Alum	NFPA	0.90	0.00	0.90
0564655	Lights, Rear Zn Lwr, WIn M6*C LED, Clear Lens, For Tail Lt	NFPA	1.80	2.70	0.00
0564683	Lights, Tail, WIn M6BTT* Red LED Stop/Tail & M6T* Amber LED	NFPA	0.83	2.49	0.00
0601949	Light, Turntable Console, TecNiq T-10, LED Strip Light	NFPA	0.20	0.00	0.00
0601972	Lights, Turntable Walkway, P25, LED	NFPA	0.35	0.00	0.00
0602100	Lights, Torque Box Ladder Storage, Pierce LED Strip Lights, 2 Lts	NFPA	1.00	0.00	0.00
0615386	Vehicle Information Center, 7" Color Display, Touchscreen, MUX	NFPA	1.20	0.00	0.00
0616374	Light, Locator, WIn M2W** At Tip, Facing Out, PAL/PAP, 2lts	NFPA	0.90	1.30	0.00
0620054	Light, Directional/Marker, Intermediate, Weldon 9186-8580-29	NFPA	0.10	0.90	0.00
0622803	Cab Instruments, Black Gauges, Black Bezels, Enforcer MUX	NFPA	1.26	0.00	0.00
0625650	Cab, Enforcer, 7000	NFPA	6.80	10.20	0.00
0647647	Lights, Dome, FRP Dual LED 4 Lts	NFPA	0.80	0.80	0.00
0647802	Lights, Clearance/Marker/ID, Front, P25 LED 5 Lts, Saber	NFPA	0.35	0.00	0.00
0647899	Lights, Directional/Marker, Cab Front Side, Weldon 9186-8580-29	NFPA	0.80	0.00	0.00
0664481	Bracket, License Plate & Light, P25 LED	NFPA	0.07	0.00	0.00
0668061	Light, Do Not Move Apparatus, WIn VTX609R Red LED	NFPA	0.30	0.45	0.00
0670920	Lights, WIn MPB* Micro LED Trk Lights Only, 2lts PAL	NFPA	7.00	0.00	0.00
0709438	Lights, Walk Surf, FRP Flood, LED	NFPA	2.00	0.00	0.00
0721558	Lights, Tip, WIn MPB* LED, ASL 4lt	NFPA	14.00	0.00	0.00
0731813	Hour Meter, Aerial, Included in Information Centers, ASL, AAT,	NFPA	0.10	0.00	0.00
0738137	Cabinet, Rear Facing, RS, 22 W x 40.25 H x 26.75 D, Roll, Sp H	NFPA	0.80	0.80	0.00
0738138	Cabinet, Rear Facing, LS, 23 W x 40.25 H x 26.75 D, Roll, Sp H	NFPA	0.80	0.80	0.00
0752153	DEF Tank, 4.5 Gallon, DS Fill, Fwd of Axle, Com Air Bottle Door,	NFPA	0.60	11.40	0.00
0755095	Aerial, 107' ASL Tandem, 750/500 Tip, 50 MPH	NFPA	5.00	0.00	0.00
0760868	Lights, Cargo/Dunnage, Dual LED Light Strips, Each Side	NFPA	0.30	0.00	0.00
0762413	Light, Boom Support, Amdor AY-LB-12HW012, 12" LED	NFPA	0.18	0.00	0.00
0765941	Lights, Perimeter Body, Amdor AY-LB-12HW012 LED 2lts,	NFPA	0.36	0.00	0.00
0769567	Lights, Perimeter, Amdor AY-LB-12HW012 12", Brkt	NFPA	0.36	0.00	0.00
0769569	Lights, Perimeter Cab, Amdor AY-LB-12HW012 LED 4Dr	NFPA	0.72	0.00	0.00
0783153	Headlights, Rect LED, JW Spkr Evo 2, AXT/DCF/Enf/Imp/Sab/Vel	NFPA	4.20	4.20	0.00
0790412	Air Dryer, Wabco System Saver 1200 IWT, Heated, SFR/Enf	NFPA	7.81	0.00	0.00
0791501	Light, Traffic Directing, WIn TAL65, 36" Long LED, Aerials	NFPA	0.60	1.20	0.00
0791893	Lightbar, WIn, Freedom IV-Q, 2-21.5", RRRRR RRsrRR	NFPA	5.24	0.00	9.76
0791920	Lights, Stabilizer Scene, (2) Sets, WIn 20C0CDCD LED	NFPA	2.00	0.00	0.00
0793038	Control Stations, ASL Tandem Axle, MUX, Color Display	NFPA	4.26	0.00	0.00
0798591	Lights, Deck, WIn (2) MPBB Micro Pioneer LED Rear Flood Lights	NFPA	7.00	0.00	0.00
0801890	Trans, Allison 6th Gen, 4500 EVS P, w/Prognostics, Imp/Vel/Enf	NFPA	2.00	2.00	0.00
0802753	Lights, Tracking, WIn MP** LED, 2lts	NFPA	8.00	0.00	0.00
0891798	Compt, LS F/H F/D, Lap Drs, Ascend TA, 105', 100 HAL, No	NFPA	2.70	0.00	2.70
0892638	Lights, Cab & Crw Cab Acs Stps, P25, LED w/Bezel, 6lts	NFPA	1.00	0.00	0.00
0892649	CZ Connect Telematics	NFPA	1.61	0.00	0.00
0892656	Lights, Step (6), P25 LED, Each Side	NFPA	0.30	0.00	0.00
0893805	Engine, Cummins X12, 525 hp, 1695 lb-ft, W/OBD, EPA 2021,	NFPA	10.00	0.00	0.00

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



Electrical Analysis

7/22/2022

Bid #: 774
Desc: EDC 107' BMP
Customer: El Dorado County Fire District
Option: Pierce Command Zone, Advanced Electronics & Control System, Enforcer, WiFi CZT

Job #:
Sales Rep: Hansen, Brad
Organization: Golden State Fire Apparatus, Inc
Type: Multiplexed

Option	Description	Type*	Minimum Load	Intermittent Load	Total Connected
0647728	Alternator, 430 amp, Delco Remy 55SI	S	0.00	0.00	0.00
Load Totals:			138.00	399.99	381.50

Note: Minimum Continuous Load is in "Blocking Right of Way" mode.(Reference current edition of NFPA 1901)
 Note: Intermittent Load items are not factored in on any alternator load comparisons. These items are included on the report for reference only and should be looked at as amp draw exclusion items. (Reference current edition of NFPA 1901)
 Note: Total Connected Load "Demand" represents Total Connected Load minus any Load Managed items

Alternator Output at Idle: 254.00

Minimum Continuous Load	
Supply:	254.00
Demand:	138.00
Variance:	116.00

Alternator Output at Governed Speed: 370.00

Total Connected Load	
Supply:	370.00
Demand:	329.50
Variance:	40.50

* UDMC = User Defined Mission Critical, LM = User Defined Load Managed, S = Electrical Amperage Supply



GOLDEN STATE
FIRE APPARATUS

DEALER
SUPPLIED
EQUIPMENT
AND/OR
SERVICES

Bid #774

DEALER SUPPLIED EQUIPMENT and/or SERVICES

The following items and/or services will be provided by Golden State Fire Apparatus Inc. (GSFA) prior to final delivery:

LICENSED MANUFACTURER

The State of California Vehicle Code, section 11701 requires “every manufacturer of a vehicle subject to registration shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number”. The manufacturer has a current license at time of proposal and shall provide a copy upon request. Temporary licenses are not acceptable.

LICENSED DEALERSHIP

The State of California Vehicle Code, section 11701 requires a “dealer in vehicles of a type subject to registration, shall make application to the Department of Motor Vehicles (DMV) for a license containing a general distinguishing number”. Golden State Fire Apparatus, Inc. has a current license at time of bid as outlined above and is available upon request. Temporary licenses are not acceptable.

LICENSED SALES REPRESENTATIVE

The State of California Vehicle Code, section 11800 requires that it shall be “unlawful for any person to function as a vehicle salesperson without having first procured a license issued by the Department of Motor Vehicles (DMV)”. The representative has a current vehicle salespersons license at time of proposal and shall provide a copy upon request. Temporary licenses are not acceptable.

VEHICLE REGISTRATION

The State of California Vehicle Code section 11739 requires that the “dealer of a new motor vehicle sale is responsible for applying for the title, securing vehicle registration, and obtaining license plates for the Customer” through the Department of Motor Vehicles (DMV). Golden State Fire Apparatus, Inc. is a factory-authorized dealer of the vehicle being sold and is authorized to register with the State of California as a new vehicle manufacturer.

GSFA will make all necessary applications and complete all transfer papers, including applying for California Exempt “E” license plates.

PRE-CONSTRUCTION, FACTORY TRIP

A pre-construction trip to the manufacturing facility will be provided for three (3) Customer representative(s). The intent of this trip is to review and finalize, in detail, the specifications prior to the start of production. The pre-construction trip will have a duration of four (4) days and three (3) nights and be scheduled at times mutually agreed upon between GSFA and the Customer. Costs for airfare, lodging, meals, and ground transportation while at the manufacturer’s location will be the responsibility of GSFA. Air travel will be from one of the following airports: Sacramento, San Francisco, or San Jose.

Costs such as Customer ground transportation in California, Customer airport parking, Customer luggage fees and Customer incidentals while traveling to the factory will be the responsibility of the Customer. Flight reservations are non-refundable and in the event of a cancellation after booking, the Customer will be responsible for all costs associated with this cancellation, which may include not only the original ticket cost but also any change or cancellation fees imposed by the airline and/ or travel agency. Flight reservations are also non-transferable.

FINAL INSPECTION, FACTORY TRIP

A final inspection trip to the manufacturing facility will be provided for four (4) Customer representative(s). The intent of this trip is to ensure that the apparatus is built to specification and to detect any deficiencies that require correction. The final inspection trip will have a duration of five (5) days and

four (4) nights and be scheduled at times mutually agreed upon between GSFA and the Customer. Costs for airfare, lodging, meals, and ground transportation while at the manufacturer's location will be the responsibility of GSFA. Air travel will be from one of the following airports: Sacramento, San Francisco, or San Jose.

Costs such as Customer ground transportation in California, Customer airport parking, Customer luggage fees and Customer incidentals while traveling to the factory will be the responsibility of the Customer. Flight reservations are non-refundable and in the event of a cancellation after booking, the Customer will be responsible for all costs associated with this cancellation, which may include not only the original ticket cost but also any change or cancellation fees imposed by the airline and/ or travel agency. Flight reservations are also non-transferable.

DELIVERY TO AUTHORIZED SERVICE FACILITY

GSFA will, at their expense, deliver the apparatus (including any applicable equipment, spare parts, and supplies) to their Northern California facility in Sacramento for a dealer preparation inspection.

To ensure proper break in of all components while still under warranty, the apparatus shall be delivered under its own power - rail or truck freight shall not be acceptable.

PRE-DELIVERY SERVICE

After transportation from the factory and prior to delivery, the apparatus will receive a pre-delivery service to confirm proper operation and correction of any issues found as a result of said inspection. The Golden State Fire Apparatus, Inc. pre-delivery service consists of the following:

- Engine Compartment and Undercarriage – Check for any broken mounting brackets and inspect for correct capacities of the following (if applicable): engine oil, coolant, power steering fluid, washer reservoir fluid, transmission fluid, rear end fluid, pump transmission oil, and primer oil.
- Interior – Operate all doors, windows, and locks for proper adjustment. Check upholstery.
- Exterior – Repair reasonable paint scratches or chips. Tighten any loose hardware and inspect tires and wheels for proper pressure and lug torquing.
- Road Test – With the water tank (if applicable) full, the apparatus will be driven approximately twenty miles which allows the drive train components to get up to operating temperature. Road test will be on both city and highway roads. A DOT compliant brake test will be conducted to ensure the system is holding air. The brake condition and wheel seals will also be inspected.
- Electrical - Operate all lights, sirens, and other electrical accessories to verify operation.
- Pump - If applicable, vacuum test the pump to hold for 15 minutes. After vacuum test, operate the relief valve, transfer valve and check pump shift. Check water tank for leaks and inspect water level gauge for calibration. With discharge caps loose, rapid test all individual gauges and main gauges for calibration. Lubricate valve rods.
- Foam System – If applicable, tighten caps and connect foam lines. Test selector, valves, metering valve and operation of foam system (including flush).
- Fuel Tank - Fuel tank will be filled at the dealership location prior to final delivery.

- DEF Tank - DEF tank will be filled at the dealership location prior to final delivery.
- Wash - The apparatus will be thoroughly washed at the dealership location prior to final delivery.

FINAL DELIVERY (CUSTOMER PICK UP)

El Dorado County Fire Protection District will, at their expense, pick up the Product at GSFA once completed. Prior to or at time of pickup of the Product at GSFA, Customer agrees to provide proof of liability and physical damage insurance to GSFA. GSFA will not release the Product to the Customer until such proof of insurance is provided.

Customer shall pay any outstanding balances due at time of pick up for the Product to GSFA. It is the responsibility of the Customer to have full payment ready when the Product is complete and ready to pick up. If payment is late or delivery is delayed pending payment, a daily finance charge of \$150.00 and a daily storage fee of \$50.00 may apply until such payment is received.

Due to insurance liability, the Product will not be released from GSFA's location without full acceptance and full payment (or prior written agreement between the Customer and GSFA).

END OF DEALER SUPPLIED EQUIPMENT AND/OR SERVICES



PRODUCT WARRANTIES

Exhibit "C"

Bid #774



Fire and Rescue Apparatus

One (1) Year Material and Workmanship

Basic Apparatus

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Portions of the apparatus manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date the apparatus is placed in service, or 60 days from the original buyer invoice date, whichever comes first.
Warranty Period Ends After:	Twelve (12) months.
Conditions and Exclusions: See Also Paragraphs 2 thru 4	No specific exclusions apply

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

Cummins Recreational Vehicle And Fire Truck Major Components For 2017 Products

Coverage

This Extended Coverage Plan (Plan) is available to be purchased for all eligible new Cummins Engines used in Recreational Vehicle and Fire Truck applications marketed for use in the United States* and Canada under the trademark "Cummins", "Cummins ReCon®" or "Cummins Westport".

This Plan covers failures of the following Engine components which result, under normal use and service, from defects in Cummins material or factory workmanship (Covered Failure):

Fail Code	Covered Component	Fail Code	Covered Component
DAAG	Accessory Drive Gear	SN	Flywheel
BC	Camshaft	BGGC	Front Gear Cover
BKIC	Camshaft Idler Gear	BGGH	Front Gear Housing
BNRF	Connecting Rod Forging	FHGR	Fuel Pump Drive Gear
BS	Crankshaft	LCHS	Oil Cooler Housing
BKCA	Cylinder Block Casting	LNPB	Oil Pan
CHCS	Cylinder Head Capscrews	KP	Water Pump
CHCA	Cylinder Head Casting		

This Plan begins at the expiration of the Base Engine Warranty period applicable to the Engine. Coverage ends at the time, miles (kilometers) or hours specified on the accompanying Certificate, whichever occurs first, **AS MEASURED FROM THE CUMMINS BASE ENGINE WARRANTY START DATE.**

Cummins Responsibilities

Cummins will pay for all parts and labor needed to repair damage to the Engine resulting from a Covered Failure.

Cummins will pay for the lubricating oil, antifreeze, diesel exhaust fluid, filter elements and other maintenance items that are not reusable due to the Covered Failure.

Cummins will cover reasonable costs for Engine removal and reinstallation when necessary to repair a Covered Failure.

Owner Responsibilities

Before the expiration of this Plan, Owner must notify a Cummins distributor, authorized dealer or other repair location approved by Cummins of any Covered Failure and make the Engine available for repair by such facility. Owner is also responsible for delivering the Engine to the repair facility.

Service locations are listed on the Cummins Worldwide Service Locator at cummins.com.

Owner is responsible for all towing and/or travel expenses incurred as a result of a Covered Failure.

Owner is responsible for the cost of lubrication oil, antifreeze, filter elements, belts, hoses and other maintenance items provided during covered repairs unless such items are not reusable due to the Covered Failure.

Owner is responsible for the communicating expenses, meals, lodging and similar costs incurred as a result of a Covered Failure. Owner is responsible for non-Engine repairs, "downtime" expenses, cargo damage, fines, all applicable taxes, all business costs and other losses resulting from a Covered Failure.

Owner is responsible for the cost to investigate complaints, unless the failure is caused by a defect in Cummins material or factory workmanship.

Owner is responsible for a \$100 (U.S. Dollars) deductible per each service visit under this Plan.

Limitations

Engines with an emissions certification listed below must be operated using only diesel fuel having no more than the corresponding maximum sulfur content. Failure to use the specified fuel as listed in the Cummins Fuel Bulletin #3379001 Table 1 (Cummins Inc. Required Diesel Fuel Specifications) can damage the Engine and aftertreatment system within a short period of time. This damage could cause the Engine to become inoperable and failures attributable to the use of incorrect fuels will be denied Warranty Coverage. Fuel

specifications also need to comply with local fuel regulations (EN590 for Europe and ASTM D975 for North America) for Warranty eligibility.

Maximum sulfur levels by emissions certification level as listed on the Engine's dataplate are:

EPA 2007/2010/2013/2017	max. 15 parts per million
EPA Tier 4 Interim / Final	max. 15 parts per million
EU Stage IIIB 2011	max. 15 parts per million
Euro 4/5	max. 50 parts per million
Euro 6	max. 10 parts per million

Cummins is not responsible for failures resulting from incorrect modifications or alterations to the Engine or adjustments that significantly alter the Engine's operating characteristics. Failures, other than those resulting from a defect in material or factory workmanship of Registered Parts, are not covered by this Plan.

Cummins is not responsible for failures or damage resulting from what Cummins determines to be abuse or neglect, including, but not limited to: operation without adequate coolants or lubricants; overfueling; overspeeding; lack of maintenance of cooling, lubricating or intake systems; improper storage, starting, warm-up, run-in or shutdown practices; unauthorized modifications to the Engine. Cummins is also not responsible for failures caused by incorrect oil or fuel, or by water, diesel exhaust fluid, dirt or other contaminants in the fuel, oil or diesel exhaust fluid.

Aftertreatment component failures are not covered by this Plan.

Parts used to repair a Covered Failure may be new Cummins parts, Cummins approved rebuilt parts or repaired parts. Cummins is not responsible for failures resulting from the use of parts not supplied by Cummins.

A new Cummins or Cummins approved rebuilt part used to replace a Registered Part assumes the identity of the Registered Part it replaced and is entitled to the remaining Coverage hereunder.

This Plan is transferable to subsequent Owners of the Engine by notifying a Cummins Distributor within 90 days of the transfer of ownership.

Bushing and bearing failures are not covered.

Blowby is not covered.

CUMMINS DOES NOT COVER WEAR OR WEAROUT OF COVERED PARTS.

CUMMINS IS NOT RESPONSIBLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

CUMMINS RESERVES THE RIGHT TO INTERROGATE ELECTRONIC CONTROL MODULE (ECM) DATA FOR PURPOSES OF FAILURE ANALYSIS.

EXCEPT FOR THE PUBLISHED CUMMINS ENGINE WARRANTY APPLICABLE TO THE ENGINE, THERE ARE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OR OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

In the United States*, this Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

* United States includes American Samoa, the Commonwealth of Northern Mariana Islands, Guam, Puerto Rico and the U.S. Virgin Islands.

Coverage I.D.: FCM



Cummins Inc.
Box 3005
Columbus, IN 47202-3005
U.S.A.

R. H. SHEPPARD CO., INC.
101 Philadelphia St.
Hanover, PA 17331
Pierce Manufacturing Inc.
2600 American Drive
Appleton, WI 54912

LIMITED WARRANTY: The R. H. Sheppard Co. Inc., (“Sheppard”) warrants all M110PKG1 and M110SAU1 steering gears manufactured and sold to Pierce Manufacturing Inc. (“Pierce”) for application on Pierce TAK-4 equipped vehicles to be free from defects of workmanship and material under normal use and service for a period of thirty six months from the in service date of the vehicle to its original owner.

Vehicle applications where Sheppard product is used require an application approval before production build. If Pierce uses Sheppard product for any purpose or application which has not been approved by Sheppard in advance, including aftermarket devices (defined as a device added to the steering system directly or indirectly affecting the performance or operation of the Sheppard product in its approved application) not tested and approved by Sheppard this limited warranty **SHALL NOT APPLY AND SHALL BE VOID. SHEPPARD MAKES NO OTHER WARRANTY, EITHER EXPRESS OR IMPLIED. SHEPPARD EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR USE OR PURPOSE WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF.** **SHEPPARD SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES OR FOR LOSS OR DAMAGE DIRECTLY OR INDIRECTLY ARISING FROM THE USE OF A PRODUCT.** Pierce expressly acknowledges its obligation to inform all users (customers) of the above disclaimer.

CONDITIONS: Claims under this Limited Warranty may only be made by Pierce. In no event shall Sheppard be held liable for warranty charges by unauthorized persons. No allowance will be made for repairs or alterations, unless made with the written consent of Sheppard. Authorized Pierce dealers shall be the only authorized repair facility for Sheppard products applied to Pierce vehicles. Any warrantable repair made under this Limited Warranty must be made on or before 36 months of the in-service date for the Product to which the claim relates. Sheppard shall not be liable for claims made after such date. Sheppard product fitted to Pierce vehicles that are repaired at a repair facility other than an authorized Pierce dealer within the warranty period will be considered for payment under the guidelines of this agreement only by joint written consideration of Sheppard and Pierce warranty departments. It shall be the responsibility of the Pierce warranty department to notify Sheppard if and when this situation occurs. Sheppard will not be held responsible for damage to other steering components such as but not limited to pumps and reservoirs due to improper adjustment of steering gear relief plungers. Vehicle downtime and towing will not be considered under warranty.

REMEDIES: The sole and exclusive remedy of Pierce for Sheppard’s breach of the foregoing warranty is limited to the return and repair or reimbursement as follows:

R. H. SHEPPARD CO., INC. WARRANTY
Pierce Manufacturing Inc.
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Warranty Support: In support of the Pierce dealer network, Sheppard will provide a toll-free “Hotline” service to assist in the diagnosis and troubleshooting of steering problems. The R. H. Sheppard Co., Inc. Field Service Department can be reached at 1-800-274-7437 for assistance. Sheppard will require that Pierce dealers contact this toll-free “Hotline” for approval before product is removed from a vehicle in a warranty situation. When contacted regarding a warranty situation, the Sheppard representative will provide an authorization number for removal of the product. This Returned Goods Authorization (RGA) number must be included in all warranty correspondence and attached to all returned goods.

Procedure: In the event of a warranty situation, the servicing dealer shall contact the Sheppard Hotline and receive an RGA number before replacing any steering gear. For M110PKG1 and M110SAU1 steering gear models, the dealer will first obtain an RGA number from Sheppard, and then order the replacement gear from Pierce. Replacement M110PKG1 and M110SAU1 steering gears shall be shipped from Pierce once those models are in full production. A warranty claim for both parts and labor will then be generated by the dealer and sent to Pierce. After reviewing the claim, Pierce will submit it to Sheppard for reimbursement.

Parts Reimbursement: Sheppard agrees to reimburse Pierce at Pierce’s purchase price plus 30% mark-up for parts found to be defective within the warranty period. Parts being returned for warranty consideration shall be sent to the R. H. Sheppard Company, 447 E. Middle St., Hanover, PA 17331 ATTN: Warranty Dept. Sheppard’s determination as to whether the part is covered by the foregoing warranty is final and conclusive. Sheppard requires the return of complete steering gears only. Individual seals replaced under warranty **should not** be returned unless specifically requested by Sheppard. All parts being returned for warranty consideration must be clearly tagged with all pertinent warranty information including, but not limited to (1) Returned Goods Authorization number (RGA); (2) claim number; (3) date in service; (4) date of failure; (5) mileage; (6) part number; (7) labor hours; (8) dealer labor rate and; (9) dollar amount claimed. Claims submitted without prior authorization are subject to rejection under this agreement.

Labor: Labor to repair Sheppard product found to be defective within the warranty period will be reimbursed at not more than 10 hours per vehicle. Labor shall be reimbursed at the rate of \$85.00 USD per hour for M110PGK1 and M110SAU1 steering gears.

Freight: Pierce will collect M110PGK1 and M110SAU1 warranty material at a designated collection point. Inbound freight to the Pierce collection point will be the responsibility of Pierce. All warranty material should be returned from the Pierce collection point to R. H. Sheppard Co. Freight Collect by a Sheppard-specified common carrier based on location of the Pierce collection point. Sheppard does not require the return of failed seals. Any freight charges incurred for the return of seals will be the responsibility of Pierce. Parts returned for warranty consideration without prior authorization are subject to rejection under this agreement and may be subject to a charge back of inbound freight charges. Parts rejected under this warranty will be returned to Pierce Freight Collect or scrapped by Sheppard at Pierce’s discretion.

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Pierce Manufacturing Inc.
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Outside Purchases: Pierce authorized dealers shall be the only outlet for repair, warranty service and parts for Sheppard products applied to Pierce vehicles. Sheppard will not be responsible for consumables such as hoses, belts, fluids, fittings or miscellaneous shop material that may be required for the repair of the product.

Warranty Documentation: Warranty credit memos will be issued monthly to the Pierce Warranty Department. Monthly credit memos will include (1) claim number; (2) part number; (3) parts reimbursement; (4) labor reimbursement; (5) any applicable Pierce reference number and; (6) reason for rejection or acceptance of the claim. Credit memos will be issued in U.S. funds. Debits for warranty claims will not be accepted under this agreement. Claim disposition will constitute the final and conclusive resolution of warranty claims.

Parts Retention: Sheppard will retain parts submitted for warranty consideration for a period of sixty (60) days for any material found to be rejected for warranty. Sheppard will notify Pierce within sixty (60) days of receipt of Sheppard's determination as to whether any such part is covered by this warranty. Warranty reimbursement will be issued within thirty days of receipt of material at Sheppard.

Good-Will Requests: Good-Will requests will be considered jointly between Sheppard and Pierce for equitable compensation.

RECALLS: Sheppard retains the right to review information regarding federal motor vehicle recall and /or product repair programs if Sheppard products fitted to Pierce vehicles are alleged to be non-compliant with federal motor vehicle safety standards. Sheppard retains the right to review any claims of product defect or non-compliance before participating in reimbursement of expenses incurred as a result of alleged non-compliance or defect of its products. Sheppard agrees to negotiate in good faith for the reimbursement of expenses incurred by Pierce for all administrative, material and labor cost and expense associated with any recall where Sheppard product is found to be defective or non-compliant with federal motor vehicle standards.

MISCELLANEOUS: This writing constitutes the full complete and final statement of Sheppard's limited warranty for M110PKG1 and M110SAU1 products sold to Pierce. All prior oral or written correspondence, test data, negotiations, representations, understandings and the like regarding products are merged in this writing and extinguished by it. This limited warranty may not be altered, amended extended or modified except by a writing signed by the President or Vice President of Sheppard. No employee, vendor, dealer, distributor or other representative of Sheppard has authority to make statements to extend, expand, alter or amend the terms of this Limited Warranty. Sheppard expressly disclaims any statements contrary to the Limited Warranty. Sheppard's failure at any time to enforce any of the terms and conditions stated herein shall not constitute a waiver of any provisions herein. This Limited Warranty shall be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania.

R. H. SHEPPARD CO., INC. WARRANTY

Pierce Manufacturing Inc.

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Any legal actions which may arise as a result of disputes, controversies or claims arising out of or related to this limited warranty shall be in such forum as Sheppard and Pierce shall agree, or, in the absence of agreement, in a court of appropriate jurisdiction other than in the county in which either party is located. This Limited Warranty shall not be assigned by Pierce.

COOPERATIVE EFFORT: Sheppard and Pierce agree to work cooperatively toward expanding this warranty coverage to a period of sixty months from the in service date. These cooperative efforts shall focus on examining the effects of increased heat generated by 2007 model engines and its impact on the entire power steering system.

AGREEMENT: This agreement is effective April 3, 2006 and may be modified by mutual agreement between Sheppard and Pierce of a signed amendment to be attached to the original Limited Warranty. There are no third party beneficiaries to this Limited Warranty. This warranty agreement applies to Pierce authorized dealers only. It does not encompass any special arrangements that Pierce may now have or that Pierce may enter into, with any other segments of the trucking industry. This warranty agreement does not apply to non-conforming product removed at Pierce assembly plants.

This Limited Warranty agreement between the R. H. Sheppard Co., Inc and Pierce Manufacturing Inc. may be terminated by either party with thirty days written notice prior to termination.

Signed at Pierce Manufacturing Inc., Appleton, WI this _____ day of _____, 2006.

R. H. SHEPPARD CO., INC.

PIERCE MANUFACTURING INC.

Authorized Signature

Authorized Signature

Title

Title



Fire and Rescue Apparatus

Lifetime Fifty (50) Year Structural Integrity

Custom Chassis Frame

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Custom chassis frame rail manufactured by Pierce shall be free from defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Fifty (50) Years (Expected Life of Apparatus)
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship TAK-4 Independent Front Suspension

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The TAK-4 Front Independent Suspension and Steering Gears shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years -or- 30,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty excludes brake pads, brake rotors, seal boots and shock absorbers.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus



SUPPLIER

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the purchaser who first puts the product in service ("Buyer"):

Coverage:	The Meritor axle shall be covered by Meritor as indicated in the attached Meritor warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor warranty description shall apply.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

MERITOR® COMMERCIAL VEHICLE SYSTEMS

WARRANTY/MODEL YEAR 2020 VEHICLES



MERITOR





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How to Read Warranty Coverage

Number of Years	Mileage (in thousands) Unl=Unlimited	P=Parts Only P&L=Parts & Labor
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Notice:

Models or components that are approved for use by Meritor’s vocational guidelines contained in Meritor Publication TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, which are not specifically listed, are warranted for one year, unlimited miles, parts only (1/Unl/P).

Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Advantage Program

Purchasing additional coverage on select components will continue to safeguard your investment against major repair costs after the initial base coverage expires. You can find out more about the Advantage Program by visiting www.meritor.com or by contacting Meritor at 866-OnTrac1 (866-668-7221).



LINEHAUL WARRANTY INFORMATION

Linehaul Vehicles

- Bulk Hauler
- Chip Hauler (Truck)*
- Doubles
- Flatbed
- General Freight
- Grain Hauler
- Livestock Hauler
- Moving Van
- Pipe Hauler
- Refrigerated Freight
- Tanker
- Triples

* Chip Hauler vehicles require specific axle models listed below and Linehaul condition to be eligible for Linehaul warranty consideration.

Linehaul Typically Is

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction
- Greater than 30 miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/750/P&L

FD-965	FF-967	MFS-12-122B-N	MFS-12-132C-N	MFS-13-122B-N	MFS-13B-122C-N
FF-941	FG-941	MFS-12-122C-N	MFS-12E-132B-N	MFS-13-122C-N	MFS-13B-132B-N
FF-942	FG-943	MFS-12E-122A-N	MFS-12E-132C-N	MFS-13-132B-N	MFS-13B-132C-N
FF-943	MFS-10-122A	MFS-12E-122B-N	MFS-12-143A-N	MFS-13-132C-N	MFS-14-122A-N
FF-944	MFS-10-143A-N	MFS-12E-122C-N	MFS-12E-143A-N	MFS-13-143A-N	MFS-14-124A-N
FF-961	MFS-10-144A-N	MFS-12-124A-N	MFS-12-144A-N	MFS-13-144A-N	MFS-14-143A-N
FF-966	MFS-12-122A-N	MFS-12-132B-N	MFS-13-122A-N	MFS-13B-122B-N	MFS-14-144A-N

Rear Drive Single Axles – 5/750/P&L

RS-19-144/145/A	RS-21-145	RS-23-160
MS-19-14X	RS-21-160	RS-23-161
MS-21-144	MS-23-17X	RS-23-186

Rear Drive Tandem/Tridem Axles – 5/750/P&L

RT-34-144/P/A	MA-40-165	MT-40-14XHE
RT-40-145/A	MA-40-175	MT-40-144/P
RT-40-160/P ^{1,2}	MT-34-14X/P	MT-40-943
RT-46-160/P ^{1,2}	MT-40-14T/P	MT-40-943-SP
RT-46-164EH/P ^{1,2}	MT-40-14X/P	RZ-166 ²
RT-50-160/P ^{1,2}	MT-40-14X/P	RZ-188

Drivelines

RPL	5/500/P, 1/Unl/P&L
MXL	3/350/P, 1/Unl/P&L
155N	1/Unl/P
92N	1/Unl/P

¹ These models required for Chip Hauler and Linehaul warranty consideration.
² Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.



LINEHAUL WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	5/500/P, 1/100/L
Q+ Drum Brake™	5/500/P, 1/Unl/P&L
ASA	5/500/P, 1/Unl/P&L
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ²	12-Years or Wearable Life/P
EX+ Air Disc Brake™	5/500/P, 1/Unl/L
EX+ Air Disc Brake Extended Standard Warranty ³	5/500/P&L

¹ Includes: bushing, seal, cam, ASA lubrication and wear coverage of 3/500/P&L.

² Based on stamped wear diameter max.

³ Applies only to MA761 friction material code CD brake assembly i.e. EX225LXXXCDXXX

Trailer Axles

Beam and Brackets	5/500/P, 1/100/L
Wheel End Systems ¹	
Standard System ²	1/100/P&L
PreSet by Meritor ³	5/500/P&L
AxlePak5 ⁴	5P/L
AxlePak7 ⁵	7P/L

¹ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

² When installed by Meritor.

³ Requires approved hubcap stating PreSet by Meritor on hubcap face.

⁴ When specified with AxlePak5 wheel end system, coverage on MTIS thru-tee and stator is 5/Unl/P, 1/Unl/L.

⁵ When specified with AxlePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

(For brake components and ABS coverage, refer to appropriate product warranties.)

TAG/Pusher Axles¹

TQ, TQD, TR, TRD Beam and Brackets	5/750/P&L
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¹ For brake components and ABS Coverage, refer to appropriate product warranties.

Meritor Tire Inflation System

MTIS Components	5/Unl/P, 1/Unl/L
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Trailer Air Suspension Systems

MPA38/40 (Tandem Axle Parallelogram) ¹	
Major Structural Components	5/500/P, 1/100/L
Curbing Damage Warranty ²	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/P, 3/L
PinLoc Air Controls	1/100/P&L
PinLoc Actuator	3/300/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs	2/200/P, 1/100/L
Bushings	5/P, 3/L
MTA (Trailing Arm)	
Major Structural Components	5/500/P, 1/100/L
Height Control Valve	1/100/P&L
Shock Absorbers	2/200/P&L
Air Springs & Rebound Straps	2/200/P, 1/100/L
Bushings	5/500/P, 3/300/L

¹ Fastener torque coverage is limited to 2/Unl/P&L when torqued by Meritor (For axle and ABS coverage, refer to appropriate product warranties.)

² “Curbing damage” is defined as deformation (bending, buckling, or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers, and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferrable to another trailer VIN, and coverage does not apply if the trailer is deemed to be a total loss, scrapped, or otherwise not salvageable.



GENERAL SERVICE WARRANTY INFORMATION

General Service Vehicles

- Auto Hauler
- Beverage Truck
- Chip Hauler
- Cross Country Coach
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Newspaper Delivery
- Pick-Up and Delivery
- Pipe Hauler
- Platform Auto Hauler
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Trailer
- Tour Bus
- Wrecker

General Service Typically Is

- Lower mileage operations (less than 60,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 2/Uni/P&L

FD-965	FL-943	MFS-8-163B-N	MFS-12E-132B-N	MFS-13-132C-N	MFS-16-143A-N
FF-941	MFS-6-151A-N	MFS-10-122A	MFS-12-132C-N	MFS-13B-132B-N	MFS-18-133A-N
FF-942	MFS-6-153B-N	MFS-10-143A-N	MFS-12E-132C-N	MFS-13B-132C-N	MFS-18-135A-N
FF-943	MFS-6-162B-N	MFS-10-144A-N	MFS-12-143A-N	MFS-13-143A-N	MFS-18-193A-N
FF-944	MFS-6-153C-N	MFS-12-122A-N	MFS-12-144A-N	MFS-13-144A-N	MFS-20-133A-N
FF-946	MFS-6-162C-N	MFS-12E-122A-N	MFS-12E-143A-N	MFS-14-122A-N	MFS-20-135A-N
FF-961	MFS-7-113C-N	MFS-12-122B-N	MFS-13-122A-N	MFS-14-124A-N	MFS-20-192A-N
FF-966	MFS-7-153C-N	MFS-12E-122B-N	MFS-13-122B-N	MFS-14-143A-N	MFS-20-193A-N
FG-967	MFS-7-163C-N	MFS-12-122C-N	MFS-13B-122B-N	MFS-14-144A-N	MFS-22-135A-N
FG-941	MFS-8-113B-N	MFS-12E-122C-N	MFS-13-122C-N	MFS-16-122A-N	MFS-22H-135A-N
FH-941	MFS-8-143A-N	MFS-12-124A-N	MFS-13B-122C-N	MFS-16-133A-N	MFS-22-193A-N
FH-946 ¹	MFS-8-153B-N	MFS-12-132B-N	MFS-13-132B-N	MFS-16-135A-N	MFS-22H-193A-N
FL-941					

¹ Can also be used with reduced steer angles in tag position in Coach Applications.

Front Drive/Non-Drive Steer Axles – 1/Uni/P&L

MX-08-130-FV (FSD-08A)	MX-16-130-FV (FSD-16A)	MX-21-130-SD (SDA-2100)
MX-10-130-FV (FSD-10A)	MX-18-130-FV (FSD-18A)	MX-23-130-FV (FSD-23A)
MX-12-130-FV (FSD-12A)	MX-18-130-SD (SDA-1800)	MX-23-130-SD (SDA-2300)
MX-13-130-FV (FSD-13A)	MX-20-130-FV (FSD-20A)	MX-29-130-FV (FSD-29A)
MX-14-130-FV (FSD-14A)	MX-21-130-FV (FSD-21A)	

Rear Drive Tandem/Tridem - 3/Uni/P&L

RT-40-160/P	RT-50-160/P
RT-46-160/P	RZ-166
RT-46-164EH/P	

Rear Drive Axles – 1/Uni/P&L

11170	RND-14H
523	RND-16A

Drivelines

RPL	4/400/P, 1/Uni/P&L
MXL	3/350/P, 1/Uni/P&L
155N	1/Uni/P
92N	1/Uni/P

Rear Drive Single Axles – 2/Uni/P&L

MS-17-13X	MS-21-14X	RC-23-160	RS-24-160	MS-30-616-SP
MS-17-14X	MS-21-144	RC-23-161	RC-25-160	RS-35-380
MS-19-13X	MS-23-17X	RC-23-162 ¹	RS-26-185	71162
MS-19-14X	RS-21-145/A	RC-23-165 ¹	MS-26-616	71163
RS-17-144/145/A	RS-21-160	RS-23-160	MS-26-616-SP	79163
RS-19-144/145/A	RC-22-145	RS-23-161	RS-30-185	
MS-21-13X	RC-22-145/A	RS-23-186	MS-30-616	

¹ 3/Uni/P&L if PreSet by Meritor.

Rear Drive Tandem/Tridem Axles – 2/Uni/P&L

MT-34-14X/P	MT-40-14XHE	RT-44-145/P	MT-58-616
RT-34-144/P/A	MT-40-144/P	RT-46-169	RT-58-185 ¹
MT-40-14T/P	RT-40-145/A	MT-52-616	MT-70-380
MT-40-14X/P	MT-44-14X/P	RT-52-185 ¹	RZ-188

Transmission – 1/Uni/P&L

516	FAT 30
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PTO – 1/Uni/P&L

MPT-318	MPT-526	MPT-1702
MPT-500	MPT-531	MPT-175
MPT-510	MPT-543	MPT-185
MPT-518	MPT-170	MPT-190

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.



GENERAL SERVICE WARRANTY INFORMATION

Brake Components

Cam Q Series Trailer Brakes	3/Unl/P, 1/Unl/L
Cam P ³	2/200/P
Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ³	2/200/P&L
ASA	3/Unl/P
ASA ³	2/200/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
STEELite X30 Drum Brake™ ²	12-Years or Wearable Life/P
EX+ Air Disc Brake™	2/Unl/P&L

¹ Includes: bushing, seal, cam, ASA lubrication and wear coverage of 1/Unl/P.

² Based on stamped wear diameter max.

³ Applies to Tour Bus and Cross Country Coach only.

Trailer Axles

Beam and Brackets ¹	5/Unl/P, 1/Unl/L
Wheel End Systems ²	
Standard System ³	1/Unl/P&L
AxlePak ⁴	5/P&L
AxlePak ⁵	7/P&L

¹ 9000 Series is 3/Unl/P, 1/Unl/L

² Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

³ When installed by Meritor.

⁴ When specified with AxlePak5 wheel end system, coverage on MTIS thru-tee and stator is 5/Unl/P, 1/Unl/L.

⁵ When specified with AxlePak7 wheel end system, coverage on MTIS thru-tee and stator is 7/Unl/P, 1/Unl/L.

(For brake components and ABS coverage, refer to appropriate product warranties.)

Chassis Axles (2000 Series/ChassiPak)

Beam & Brackets	6/Unl/P, 1/Unl/L
Wheel End Systems ¹	
Standard System	1/Unl/P&L
AxlePak7	7/P&L
Beam and Brackets	7/P, 1/L

¹ Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

Trailer Air Suspension Systems

MPA38/40 (Tandem Axle Parallelogram) ¹	
Major Structural Components	5/Unl/P, 1/Unl/L
Curbing Damage Warranty ²	5/500/P, 1/100/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
PinLoc Air Controls	1/Unl/P&L
PinLoc Air Actuator	3/Unl/P&L
MPA20 (Single Axle Parallelogram)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings	5/P, 3/L
MTA (Trailing Arm)	
Major Structural Components	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs and Rebound Straps	2/Unl/P, 1/Unl/L
Bushings ³	5/Unl/P, 3/Unl/L

(For axle and ABS coverage, refer to appropriate product warranties.)

¹ Fastener torque coverage is limited to 2/Unl/P&L when torqued by Meritor

² "Curbing damage" is defined as deformation (bending, buckling, or breakage), caused by sudden impact with a curb or similar fixed object. Damage to the RideSentry slider box (the suspension sliding subframe, consisting of the frame rails, crossmembers, and central A-frame assembly), caused by accidental trailer impact with a curb or similar fixed object, is eligible for warranty coverage. Damage to other components or damage resulting from collision with another vehicle, rollover or fire is not covered under this provision. Warranty is not transferrable to another trailer VIN, and coverage does not apply if the trailer is deemed to be a total loss, scrapped, or otherwise not salvageable.

³ Raw wood applications 3/Unl/P, 1/Unl/L

TAG/Pusher Axles

TQ, TQD, TR, TRD Beam and Brackets ¹	3/Unl/P, 1/Unl/L
MC14002, MC16003, FH946	2/Unl/P&L

(For brake components and ABS coverage, refer to appropriate product warranties.)

¹ 3/Unl/P&L if sold with PreSet by Meritor.

Meritor® Tire Inflation System

MTIS Components	5/Unl/P, 1/Unl/L
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HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Heavy Service/Specialty Vehicle

- Airport Rescue Fire Fighting (ARFF)
- Airport Shuttle*
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Mixer
- Demolition
- Drill Rig
- Dump
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Rear Loader (Refuse)
- Recycling Truck
- Residential Pick-Up (Refuse)
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus*
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Utility Truck
- Winch Truck

*Commercial chassis only

Heavy Service/Specialty Vehicle Typically Is

- Moderate mileage operation (less than 60,000 miles per year)
- On/Off road vocations (10% or more off-road)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

Front Drive/Non-Drive Steer Axles – 2/Unl/P&L

FD-965	FL-941	MFS-10-143A-N	MFS-12-143A-N	MFS-13-144A-N	MFS-18-193A-N	MX-12-120
FF-941	FL-943	MFS-10-144A-N	MFS-12-144A-N	MFS-13-155	MFS-20-133A-N	MX-12-120 EVO
FF-942	MFS-6-151A-N	MFS-12-122	MFS-12-155	MFS-14-122	MFS-20-135A-N	MX-14-120
FF-943	MFS-6-153B	MFS-12E-122	MFS-13-122	MFS-14-124A-N	MFS-20-192A-N	MX-16-120
FF-944	MFS-6-162B	MFS-12-122B-N	MFS-13-122B-N	MFS-14-143A-N	MFS-20-193A-N	MX-18-120
FF-946	MFS-6-162C	MFS-12E-122B-N	MFS-13B-122B-N	MFS-14-144A-N	MFS-22-135A-N	MX-17-140
FF-961	MFS-7-113C-N	MFS-12-122C-N	MFS-13-122C-N	MFS-16-122A-N	MFS-22H-135A-N	MX-19-140
FF-966	MFS-7-153C-N	MFS-12E-122C-N	MFS-13B-122C-N	MFS-16-133A-N	MFS-22-193A-N	MX-21-140
FF-967	MFS-7-163C-N	MFS-12-124A-N	MFS-13-132B-N	MFS-16-135A-N	MFS-22H-193A-N	MX-21-160
FG-941	MFS-8-113B-N	MFS-12-132B-N	MFS-13B-132B-N	MFS-16-143A-N	RF-16-145	MX-23-160
FG-943	MFS-8-153B-N	MFS-12E-132B-N	MFS-13-132C-N	MFS-18-133A-N	RF-21-160	MX-810
FH-941	MFS-8-163B-N	MFS-12-132C-N	MFS-13B-132C-N	MFS-18-135A-N	MX-10-120	
FH-946	MFS-10-122A	MFS-12E-132C-N	MFS-13-143A-N	MFS-18-192A-N	MX-10-120 EVO	

Front Drive/Non-Drive Steer Axles – 1/Unl/P&L

MX-08-130-FV (FSD-08A)	MX-16-130-FV (FSD-16A)	MX-21-130-SD (SDA-2100)
MX-10-130-FV (FSD-10A)	MX-18-130-FV (FSD-18A)	MX-23-130-FV (FSD-23A)
MX-12-130-FV (FSD-12A)	MX-18-130-SD (SDA-1800)	MX-23-130-SD (SDA-2300)
MX-13-130-FV (FSD-13A)	MX-20-130-FV (FSD-20A)	MX-29-130-FV (FSD-29A)
MX-14-130-FV (FSD-14A)	MX-21-130-FV (FSD-21A)	

Rear Drive Axles – 1/Unl/P&L

11170	RND-14H
523	RND-16A

Drivelines

RPL	3/Unl/P, 1/Unl/P&L
92N	1/Unl/P&L
MXL	1/Unl/P&L

Rear Drive Single Axles – 2/Unl/P&L

MS-17-14X	RS-21-160	RS-24-160	MS-35-380
RS-17-144/145/A	RC-22-145	RS-25-160	RS-38-380
MS-19-14X	RC-23-160	MS-26-616	RC-25-160
RS-19-144	RH-23-160	MS-26-616-SP	RC-26-633
MS-21-114	RS-23-160	RS-26-185/380	MT-58-616
MS-21-14X	RC-23-161	MS-30-616	MT-58-616-SP
RS-21-145	RS-23-161	MS-30-616-SP	
RS-21-145/A	RS-23-186/380	RS-30-185/380	

Transmission – 1/Unl/P&L

516
FAT 30

PTO – 1/Unl/P&L

MPT-318	MPT-526	MPT-1702
MPT-500	MPT-531	MPT-175
MPT-510	MPT-543	MPT-185
MPT-518	MPT-170	MPT-190



HEAVY SERVICE/SPECIALTY VEHICLE WARRANTY INFORMATION

Rear Drive Tandem/Tridem Axles – 2/Unl/P&L

MT-34-14X/P	RT-44-145/P	RT-52-185/380 ^{1,2}	MT-70-380
RT-34-144/P/A	RT-46-169	MT-58-616	RZ-188
MT-40-14X/P	RT-58-160	MT-58-616-SP	
RT-40-145/A	MT-52-616	RT-58-185/380 ^{1,2}	
MT-44-14X/P	MT-52-616-SP	RT-70-380	

¹ Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

² Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Brake Components

Cam P	3/Unl/P
Cam P ³	2/100/P
Cam Cast Plus™	2/100/P&L
Q+ Drum Brake™	3/Unl/P&L
Q+ Drum Brake™ ²	2/100/P&L
ASA	3/Unl/P
ASA ²	2/100/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake	2/100/P&L

¹ Based on stamped wear diameter max.

² Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

³ Warranty for all non-Meritor ASAs supplied by Meritor for all Heavy Service vocations is 1/100/P.

Rear Drive Tandem/Tridem - 3/Unl/P&L

RT-40-160/P/A ³
RT-46-160/P/A ^{1,3}
RT-46-164EH/P/A ^{2,3}
RT-50-160/P/A ³
RZ-166

¹ U.S. only. Canadian warranty = 1/Unl/P for combination vehicles only.

² Axle model designated will vary according to options and variations specified on these axles. Contact Meritor Axle Applications Engineering for details.

³ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Meritor Tire Inflation System

MTIS Components	5/Unl/P, 1/Unl/L
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Trailer Air Suspension Systems

MTA (Trailing Arm)	
Major Structural Components ¹	5/Unl/P, 1/Unl/L
Height Control Valve	1/Unl/P&L
Shock Absorbers	2/Unl/P&L
Air Springs	2/Unl/P, 1/Unl/L
Bushings ¹	5/Unl/P, 3/Unl/L

¹ Raw wood applications 3/Unl/P, 1/Unl/L

(For axle and ABS coverage, refer to appropriate product warranties.)

Trailer Axles

Beam and Brackets ¹	5/Unl/P, 1/Unl/L
Wheel End Systems ²	
Standard System ³	1/Unl/P&L

¹ 9000 Series is 3/Unl/P, 1/Unl/L.

² Includes hub, wheel seals and wheel bearings—all systems require annual inspections and proper documentation to ensure full coverage.

³ When installed by Meritor.

(For brake components and ABS coverage, refer to appropriate product warranties.)

Gearboxes – 1/Unl/P&L

MGX-240	MGX-376	MGX-448	MGX-506	MGX-528	MGX-546
MGX-279	MGX-377	MGX-456	MGX-514	MGX-533	MGX-550
MGX-279D	MGX-378	MGX-478	MGX-519	MGX-534	
MGX-280	MGX-380	MGX-480	MGX-520	MGX-536	
MGX-285	MGX-384	MGX-487	MGX-522	MGX-537	
MGX-292	MGX-402	MGX-488	MGX-524	MGX-541	
MGX-314	MGX-413	MGX-505	MGX-527	MGX-545	

Transfer Cases – 1/Unl/P

MTC-4213	MTC-3118-CV (358)	MTC-3209-GV (RTC-60/420)
MTC-4210	MTC-3120-FV (TC-143)	MTC-3209-GV (RTC-60/380)
MTC-4208	MTC-3124 (T-2119)	MTC-3209-GV (MTC-60/420)
MTC-4206-FV (TC-38)	MTC-3205-GV (MTC-25/247)	MTC-3209-GV (MTC-60/380)
MTC-3106-FV (TC-137)	MTC-3205-GV (MTC-25/350)	MTC-3212-CV (315 & 548B)
MTC-3111 (T-2111)	MTC-3205-GV (RTC-25/350)	MTC-3312-FV (TC-270)
MTC-3112-CV (529 & 548C)	MTC-3206-FV (TC-237)	MTC-3220-FC (TC-142)
MTC-3116 (T-2111)	MTC-3206-CS (544)	MTC-2212-CV (306)
MTC-3118-FV (TC-180 & TC-180-23)	MTC-3208-GV (RTC-50)	



FIRE AND EMERGENCY WARRANTY INFORMATION

Fire and Emergency Vehicles

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Command Vehicle
- Crash Fire Rescue (CFR)
- Pumper
- Rapid Intervention Vehicle (RIV)
- Tanker

Fire and Emergency Typically Is

- Lower mileage operations (less than 20,000 miles/year)
- Generally, on-road service (less than 10% off-road)
- An average of three (3) miles between starting and stopping

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

Front Non-Drive Steer Axles – 5/Unl/P&L

FL-941	MFS-18-193A-N	MFS-22-135A-N
FL-943	MFS-20-133A-N	MFS-22H-135A-N
MFS-18-133A-N	MFS-20-135A-N	MFS-22-193A-N
MFS-18-135A-N	MFS-20-193A-N	MFS-22H-193A-N

Front Drive Steer Axles – 2/Unl/P&L

MX-19140	MX-21160	MX-23810
MX-21140	MX-23160	

Rear Drive Single Axles – 5/Unl/P&L

RC-23-160	RS-23-186	RS-26-185	RS-25-160
RS-23-160	RS-24-160	RS-30-185	
RS-23-161	RC-25-160	RS-35-380	

¹ 3/Unl/P&L if PreSet by Meritor.

Rear Drive Tandem/Tridem Axles – 5/Unl/P&L

MT-40-14X/P	RT-44-145/P	MT-52-616
MT-40-144/P	RT-46-160/P	RT-52-185 ¹
RT-40-145/A	RT-46-164EH/P	MT-58-616
RT-40-160/P	RT-46-169	RT-58-185 ¹
MT-44-14X/P	RT-50-160/P	MT-70-380

¹ Each vehicle must have a Request for Application Recommendation (RAR) approved by Meritor prior to vehicle build. All RARs must identify the chassis number or VIN. Refer to Product Information Letter #303 and #396 for further details.

Brake Components

Cam	3/Unl/P
Q+ Drum Brake™	3/Unl/P&L
ASA	3/Unl/P
Hubs/Cast Drums and Other Wheel-end Components	1/Unl/P
Hydraulic Disc Brakes	1/Unl/P
All Other Brakes	1/Unl/P
EX+ Air Disc Brake™	2/Unl/P&L

¹ Includes: bushing, seal, cam, ASA lubrication and wear coverage of 1/Unl/P.

Drivelines

RPL	4/400/P, 1/Unl/L
MXL	3/350/P, 1/Unl/L
155N	1/Unl/P
92N	1/Unl/P

Transfer Cases – 1/Unl/P

MTC-4208	MTC-3111 (T-2111)
MTC-4210	MTC-3116 (T-2111)
MTC-4213	MTC-3124 (T-2119)



TRANSIT BUS WARRANTY INFORMATION

Transit Bus Vehicles

- Airport Shuttle
- City Bus
- Commuter Coach
- Shuttle Bus
- Transit Bus
- Trolley

Transit Bus Typically Is

- Moderate mileage operation (less than 50,000 miles per year)
- Moderate to frequent stops/starts (up to 10 stops per mile)

Coverage under Meritor's warranty require that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

Front Drive/Non-Drive Steer Axles – 5/300/P&L

FH-946 MFS-12-155
 FH-941¹ MFS-13-155

¹ Commuter coach only – 2/Unl/P&L

Drivelines

RPL 3/Unl/P, 1/Unl/L
 92N 1/Unl/P&L
 MXL 1/Unl/P&L

Rear Drive Single Axles – 5/300/P&L

RS-23-160 79163 RS-21-160
 RC-23-161 RC-23-162¹
 71163 RC-23-165¹

¹ Commuter coach only – 2/Unl/P&L

Tag Axles – 2/Unl/P&L

MC-14002
 MC-16003
 FH-946

Brake Components

Cam Cast Plus™ 2/100/P&L
 Q+ Drum Brake™¹ 2/100/P&L
 ASA¹ 2/100/P
 Hubs/Cast Drums and
 Other Wheel-end
 Components 1/Unl/P
 All Other Brakes 1/Unl/P
 EX+ Air Disc Brake 2/100/P&L

¹ Applies to City Bus, Trolley, Shuttle Bus and Airport Shuttle only.

Center Non-drive Axles – 5/300/P&L

MC-26000
 71063
 79063



TERMS AND CONDITIONS

Coverage Exclusions

Product Description

All

The cost of any repairs, replacements or adjustments to a covered component (1) associated with noise; (2) resulting from the use or installation of non-genuine Meritor components or materials; (3) due to vibration associated with improper operation or misapplication of drivetrain components; and (4) damage resulting from corrosion.

For axle assemblies supplied by Meritor with suspension and interface brackets designed and/or attached by non-Meritor parties, Meritor warranty coverage does not apply to the brackets, bracket attachment methods, and field issues caused by brackets or bracket attachments to any covered component unless specified in a separate OEM agreement.

Front Axles

King Pin Bushings.

Rear Axles

Self-contained traction equalizers and oil filters. The use of NoSPIN differentials will result in the exclusion of axle shafts from warranty considerations. NoSPIN is a product of Eaton.

ASA

Boot and bushing. Bent, broken, over-torqued, missing or otherwise damaged pawl assemblies.

Cam Brake

Brake lining wear and brake shoe “rust-jacking.”

Disc Brake

Pad wear, rotor wear.

Coverage Limitations

Product Description

All

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program. Products purchased on an incomplete vehicle (glider) are limited to one year, unlimited miles parts only (1/Unl/P).

Front Axles

Tie rod and tie rod ends limited to 3-year/300,000-mile or published vocational coverage, whichever is less. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

Rear Axles

Pinion and through shaft seals limited to 3-year/300,000-mile or published vocational coverage, whichever is less, if yoke is installed by Meritor. If yoke is not installed by Meritor, then Meritor does not warrant pinion seals. Wheel seals, gaskets and wheel bearings are covered for 1 year/unlimited miles if the wheel end equipment is supplied and assembled by Meritor.

Rear Axles

The Meritor® breather part number A-2297-C-8765 with A-3196-J-1336 hose must be used for eligibility of any potential warranty consideration relating to contamination and/or loss of lube in axles.

Cam Brake

Limited to bracket, brake spider and camshaft structural integrity.

STEELite X30

Wearable life is up to the discard diameter of the drum.

Disc Brake

Warranty coverage for boots, seals, bushings and pins is 2/200/P. Warranty coverage for pads is 1/100/P.

Warranty coverage on vehicles with 1,850 lb-ft engine torque and over may be reduced on individual drivetrain components. Contact your Meritor representative for specific details.

TERMS AND CONDITIONS

(1) What is Covered by this Commercial Warranty?

Meritor Heavy Vehicle Systems, LLC warrants to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment in vehicles licensed for on-highway use, will be free from defects in material and workmanship. This warranty coverage begins only after the expiration of the OEM's vehicle warranty for the applicable covered components. Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed elsewhere in this warranty statement.

Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Components (whether new, used or remanufactured) installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

For certain components, coverage requires the use of specific extended drain interval or synthetic lubricants. For further information about lubrication and maintenance, see Meritor publication Maintenance Manual Number 1 and the applicable Meritor maintenance manual for the product in question. Other conditions and limitations applicable to this warranty are detailed below.

(2) Designation of Vocational Use Required.

To obtain warranty coverage, each Owner must notify Meritor through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the Meritor components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with Meritor directly. Failure to notify Meritor of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date.

A second Owner and each subsequent Owner must also notify Meritor as to the intended vocational use of the vehicle. This notification can be sent directly to Meritor or through the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use.

Coverage under Meritor's warranty requires that the application of products be properly approved pursuant to OEM and Meritor approvals. Refer to TP-9441 for axles, SP-8320 for trailer axles, TP-12126 for drivelines, and/or contact Meritor regarding specific application approval questions on any product line.

(3) What is the Cost of this Warranty?

There is no charge to the Owner for this warranty.

(4) What is not Covered by this Warranty?

This warranty does not cover normal wear and tear; nor does it cover a component that fails, malfunctions or is damaged as a result of (I) improper installation, adjustment, repair or modification (including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by Meritor), (II) accident, natural disaster, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the axle and/or driveline capacity), or (III) improper or insufficient maintenance (including deviation from approved lubricants, change intervals, or lube levels). This warranty does not cover any component or part that is not branded by Meritor. For vehicles that operate full or part time outside of the United States and Canada, a one year, unlimited mileage, parts only warranty (1/Unl/P) will apply.

(5) Remedy.

The exclusive remedy under this warranty shall be the repair or replacement of the defective component at Meritor's option. Meritor reserves the right to require that all applicable failed materials are available and/or returned to Meritor for review and evaluation.

(6) Disclaimer of Warranty.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, EXPRESSED, IMPLIED OR STATUTORY INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE.

(7) Limitation of Remedies.

In no event shall Meritor be liable for special, incidental, indirect, or consequential damages of any kind or under any legal theory, including, but not limited to, towing, downtime, lost productivity, cargo damage, taxes, or any other losses or costs resulting from a defective covered component.

(8) To Obtain Service.

If the Owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either Meritor or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM new truck and/or trailer dealer or authorized Meritor service location. The dealer will inspect the vehicle and contact Meritor for an evaluation of the claim. When authorized by Meritor, the dealer will repair or replace during the term of this warranty any defective Meritor component covered by this warranty.

(9) Entire Agreement.

This is the entire agreement between Meritor and the Owner about warranty and no Meritor employee or dealer is authorized to make any additional warranty on behalf of Meritor. This agreement allocates the responsibilities for component failure between Meritor and the Owner.

Product models, brands, names and trademarks depicted herein are the property of their respective owners and, except where otherwise indicated, are not in any way associated with Meritor Heavy Vehicle Systems, LLC, or any parent or affiliate, thereof.



Meritor Heavy Vehicle Systems, LLC
2135 West Maple Road
Troy, Michigan 48084 USA

For more information:
call Ontrac at 866-668-7221
or visit meritor.com

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Litho in USA, SP-95155
Revised 1-19 (47865/11900)



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship Meritor Wabco ABS Brake System Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Meritor Wabco ABS brake system shall be covered by Meritor Wabco as indicated in the attached Meritor Wabco warranty coverage description
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	The exclusions listed in the attached Meritor Wabco warranty description shall apply.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

WARRANTY

MODEL YEAR 2021 VEHICLES



Warranty coverage is essential to protecting your investment. But understanding the full details of your coverage can be challenging. This straightforward approach allows you, our valued customer, to better understand how your specific vehicle applications will be covered in your region. Our component warranty coverage is provided according to vocation/usage categories listed below.

- Linehaul covers high mileage operation (over 60,000 miles/year) on well-maintained major highways of concrete or asphalt construction.
- General Service covers moderate mileage operations (less than 60,000 miles/year) on well-maintained public roads (less than 10 percent off-road) typically with less than three (3) stops per mile.
- Heavy Service (Vocational) covers vehicles with more than 10 percent off-road OR moderate to frequent starts/stops typically with more than three (3) stops per mile.
- Off-Highway Service covers lower mileage operations. Vehicles are not typically licensed for highway use.

How to Read Warranty Coverage (Example)

Number of Years	Mileage (in thousands) Unl=Unlimited	P=Parts Only P&L=Parts & Labor
3	300	P

- The standard aftermarket warranty for WABCO products - including WABCO Original parts, WABCO Reman Solutions, ProVia quality aftermarket parts and WABCO retrofit solutions - is one year, parts only from in-service date when purchased from ZF distributor networks or its affiliates and/or subsidiaries.

WABCO

WARRANTY - MODEL YEAR 2021 VEHICLES

LINEHAUL/GENERAL SERVICE WARRANTY INFORMATION

LINEHAUL/GENERAL SERVICE VEHICLES

- Aerial Ladder Truck
- Aerial Platform
- Ambulance
- Auto Hauler
- Beverage Truck
- Bulk Hauler
- Chip Hauler (Truck)
- Cross Country Coach
- Doubles
- Flatbed
- Front Engine Commercial Chassis
- Front Engine Integral Coach
- General Freight
- Grain Hauler
- Intercity Coach
- Intermodal Chassis
- Livestock Hauler
- Meat Packer
- Moving Van
- Municipal Truck
- Pipe Hauler
- Platform Auto Hauler
- Pumper
- Rear Engine Integral Coach
- Recreational Vehicles
- Refrigerated Freight
- School Bus
- Stake Truck
- Tanker
- Tanker Truck
- Triples
- Tour Bus
- Wrecker

LINEHAUL TYPICALLY IS

- High mileage operation (over 60,000 miles/year)
- Well maintained major highways of concrete or asphalt construction

GENERAL SERVICE TYPICALLY IS

- Moderate mileage operations (less than 60,000 miles/year)
- Well maintained public roads (less than 10% off-road)
- Less than three (3) stops per mile

WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Trailer Lift Axle Control Valve	
Trailer Control Line Filter ³	
Air Compressors (ALL) ²	2/200/P&L
Air Dryers (ALL)	3/300/P&L
Aerodynamics	
OptiFlow [®] TrailerSkirt	2/UnU/P
OptiFlow [®] Trailer Tail and AutoTail	2/UnI/P
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Electronic Braking System (EBS)	
Electronic Stability Control (ESC)	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Trailer ABS (Anti-Lock Braking System) ³	
Driveline Suspension Control	
Clutch Controls	2/200/P&L
Leveling Valves	1/100/P&L
OptiRide [®] Automated Manual Transmission (AMT)	
OptiRide [®] Electronically Controlled Air Suspension (ECAS)	3/300/P&L

WABCO Components ¹ (cont.)	
Safety	
OnGuardACTIVE [®]	3/300/P&L
OnLane [®]	
OnLaneALERT [®]	
OnSide [®]	
Trailer SafeStart [™]	
Trailer TailGUARD [™]	
Telematics	
TrailerCAST [™] Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit [™] Slack Adjuster	6/600/P
MAXXUS [™] Truck Air Disc Brake	5/500/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 17 and 19 Air Disc Brake	2/UnI/P and 1/UnI/L
Pan 22 Air Disc Brake	5/500/P and 1/L
TRISTOP [™] D Actuator w/ IBV or IRB	6/600/P
TRISTOP [™] D Actuator	3/300/P
UNISTOP [™] Actuator	2/200/P
Trailer MAXX22T [™] Air Disc Brake	5/500/P and 1/L

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

HEAVY SERVICE (VOCATIONAL) WARRANTY INFORMATION

HEAVY SERVICE VEHICLES

- Airport Rescue Fire (ARF)
- Airport Shuttle
- Asphalt Truck
- Block Truck
- Bottom Dump Trailer Combination
- Cementing Vehicle
- City Bus
- Commercial Pick-Up
- Concrete Pumper
- Construction Material Hauler
- Crash Fire Rescue (CFR)
- Mixer
- Demolition
- Drill Rig
- Dump
- Emergency Service
- Equipment Hauling
- Flatbed Trailer Hauler
- Flatbed Truck
- Fracturing Truck
- Front Loader
- Geophysical Exploration
- Hopper Trailer Combinations
- Landscaping Truck
- Liquid Waste Hauler
- Log Hauling
- Lowboy
- Michigan Special Gravel Trains
- Michigan Special Log Hauler
- Michigan Special Steel Hauler
- Michigan Special Waste Vehicle
- Municipal Dump
- Newspaper Delivery
- Package Delivery
- Pick-up and Delivery
- Rapid Intervention Vehicle (RIV)
- Rear Loader
- Recycling Truck
- Residential Pick-Up/Waste
- Rigging Truck
- Roll-Off
- Scrap Truck
- Semi-End Dump
- Sewer/Septic Vacuum
- Shuttle Bus
- Side Loader
- Snowplow/Snowblower
- Steel Hauling
- Tanker
- Tank Truck
- Tractors with Pole Trailers
- Tractor/Trailer with Jeeps
- Transfer Dump
- Transfer Vehicle
- Transit Bus
- Trolley
- Utility Truck
- Winch Truck

HEAVY SERVICE TYPICALLY IS

- On/Off road vocations (10% or more off-road) OR
- Moderate to frequent starts/stops typically more than three (3) stops per mile



WABCO Components ¹	
Air Management	
Air Brake Valves	1/100/P&L
Air Compressors (ALL) ²	
Air Dryers (ALL)	
Trailer Control Line Filter ³	
Braking Systems	
ABS (Anti-Lock Braking System) Air	3/300/P&L
ABS (Anti-Lock Braking System) Hydraulic	2/200/P&L
Electronic Braking System (EBS)	3/300/P&L
Electronic Stability Control (ESC)	
Trailer ABS Valve ³	
Roll Stability Control (RSS)	
Trailer Roll Stability Support (RSS)	
Driveline Suspension Control	
OptiRide® Electronically Controlled Air Suspension (ECAS)	2/200/P&L
Leveling Valves	1/100/P&L
Clutch Controls	2/200/P&L
Safety	
OnGuardACTIVE®	3/300/P&L
OnLane®	
OnLaneALERT®	
OnSide®	
Trailer SafeStart™	
Trailer TailGUARD™	
Telematics	
TrailerCAST™ Telematics Device	3/300/P&L
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
MAXXUS™ Air Disc Brake	1/Unl/P&L
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
Trailer MAXX22T™	1/Unl/P&L
TRISTOP™ D Actuator w/ IBV	3/Unl/P
TRISTOP™ D Actuator	2/200/P
UNISTOP™ Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ An extended warranty of 4/400/P will apply when a WABCO Trailer Control Line Filter is used in combination with a WABCO Trailer ABS valve.

WARRANTY - MODEL YEAR 2021 VEHICLES

INDUSTRIAL/OFF-HIGHWAY SERVICE WARRANTY INFORMATION

INDUSTRIAL AND OFF-HIGHWAY SERVICE TYPICALLY IS

- Low mileage operation³
- Vehicles are not typically licensed for highway use

Market	Common Application Types
Agriculture	Fertilizer Spreader, Tractor, Heavy Duty Ag Trailers, Harvester, Sprayer, Skid Loader, Silage Bagger, Slurry Wagons, Grain Cart
Airport Support	Pushback Tractor, Towing Tugs, Aircraft Tow Tractor, Refueling Trucks, Food Service Trucks, Baggage Tractors, De-Icing Equipment, Runway Clearing Equipment
Construction	All-Terrain Crane, Rough Terrain Crane, Excavator, Compactor, Wheel Loader, Road Roller, Motor Grader, Articulated Dump Truck, Rubber Tire Road Roller, Backhoe Loaders, Haul Trucks, Scraper Rough Terrain Forklifts, Trenchers, Drills
Forestry	Logging Forwarder, Kidder, Loaders, Yard Forklifts, Harvesters Fellers
Material Handling	Port Tractor, Rail Yard Spotter, Stevedoring Tractor, Trailer Spotter, Yard Jockey, Scissor Lift, Straddle Carrier, Manlift, Forklift, Boom Lift Telehandlers, Aerial Work Platforms
Mining	Specialized Mining, Excavator, Haul Truck, Underground Loader, Service Trucks, Wheel Loaders, Scrapers, Load Haul Dumps, Personnel Transports, Bolters, Scalars
Municipal	Street Sweeper, Utility Tractor, Utility Trucks, Tree Trimmers, Dump Trucks, Tow Trucks, Flat Bed Trucks, Winch Applications
Oil & Gas	Fracturing Trailer, Injector Heads, Top Drives, Jack/Lift Boats, Wireline Trucks, Load-On / Load-Off
Rail	Railcar Mover, Track Layers, Grinders, Platform Crane, Locomotive Railcars, Ballast Equipment, Winch Applications



WABCO Components ¹	
Air Management	
Air Brake Valves	2/Unl/P
Air Compressors (ALL) ²	
Air Dryers (ALL)	
Brake Actuation	
Air/Hydraulic Actuators	2/Unl/P
Master Cylinders	
Remote Actuators	
Slave and Wheel Cylinders	
Two Fluid Actuators	
Brake Locks	
Brake Locks (ALL)	2/Unl/P
Electric Brake Locks	
Lever Locks	
Braking Systems	
ABS (Anti-Lock Braking System) Air	1/100/P&L
ABS (Anti-Lock Braking System) Hydraulic	
Driveline Suspension Control	
Clutch Controls	1/100/P&L
Leveling Valves	
Electrohydraulics & Controls	
Electronic Pedals	2/Unl/P
Electrohydraulic Brake Valves (EBV)	
Pressure Switches	
Hydraulic Braking Solutions	
Accumulator Charging Valves	2/Unl/P
Hydraulic Throttle Controls and Switches	
Modulating Brake Valves	
Wheel End Solutions	
EasyFit™ Slack Adjuster	2/200/P
Caliper Disc Brakes	2/Unl/P
MAXXUS™ Air Disc Brake	1/Unl/P&L
Multiple Disc Brakes	2/Unl/P
IVTM - Wheel Module	6/P
IVTM - All Other Products	2/P
Pan 22, 19 and 17 Air Disc Brake	1/Unl/P&L
TRISTOP™ D Actuator w/ IBV	3/Unl/P
TRISTOP™ D Actuator	2/200/P
UNISTOP™ Actuator	1/100/P

¹ ZF and WABCO branded components. ² WABCO compressors installed on Cummins, Mercedes, and DDC engines are not warranted or serviced by ZF. Please contact your respective dealer/distributor of those engines for warranty and servicing. ³ Equivalent hours of service limit: 2,000 hours for all components.

TERMS AND CONDITIONS

COVERAGE EXCLUSIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

This Warranty shall not apply to the following, but not limited to: (1) damage to the product or its component parts caused by incorrect use, installation, maintenance or repair, including without limitation (a) improper fit of mating components or brackets, damaged threads, cut, broken, chafed, pinched or otherwise damaged wiring (sensors, harnesses and connectors), (b) sensors damaged during removal when seized in block, or associated with sensor adjustments/ alignments, and (c) damage resulting from the use or installation of non-genuine WABCO components or materials; (2) damage to the product, its component parts, or diminished product or component part performance due to incorrect operation, deviation from approved conditions or misapplication; (3) any unauthorized disassembly of the product or its component parts including without limitation (a) obliterated, defaced or missing WABCO or WABCO name plate, serial numbers or label identifying the device as a ZF product or WABCO component, (b) changes to sealed adjusting screws, and (c) opening or attempted repair of non-serviceable components; (4) malfunction of the component due to internal contamination of the vehicle system including without limitation (a) water and other contamination damage that is due to the use of a non-genuine air dryer cartridge or (b) valve failures due to contamination in air system, (5) complaints associated with noise, (6) damage resulting from corrosion (including oxidation of electrical devices and connections).

AIR DRYERS

Mounting brackets (see vehicle OEM). Desiccant cartridge housing only.

AIR SYSTEM COMPONENTS

Normal wear items; Gladhand seals, dash valve knobs, valve actuation handles, treadles, pedals.

ABS, ELECTRONIC STABILITY CONTROL (ESC), ROLL STABILITY CONTROL (RSC), OPTIRIDE®, ONGUARD® AND ONLANE®, COLLECTIVELY “ELECTRONICS”

Failure of electronic components due to overvoltage condition, improper grounding, electrostatic discharge (ESD), improper shielding, electromagnetic interference (EMI), or other wiring or installation issues. Malfunctions and failure codes caused by other electronic subsystem failures (data bus, engine, transmission, dashboard, etc.)

HYDRAULIC COMPONENTS

For certain components, brake fluid DOT3 or DOT4 is used as the operating medium. Use of any other fluid will void all warranties associated with that component. For hydraulic braking applications the brake fluid is considered a maintenance item. Maintenance intervals are listed in TB-1367.

COVERAGE LIMITATIONS

PRODUCT DESCRIPTION

ALL PRODUCTS

Any claim beyond 60 days from date of repair will not be accepted or honored under this warranty program.

Products purchased on an incomplete vehicle (glider) are limited to one year, 1/Unl/P.

For vehicles that operate full- or part-time outside of the United States and Canada, a 1-Year/Unlimited Miles parts only (1/Unl/P) will apply.

TOOLBOX PLUS™ DIAGNOSTIC SOFTWARE

Proper diagnostics of WABCO Electronics may require the latest version of TOOLBOX PLUS™. Additional labor due to use of an outdated version of TOOLBOX™ software and/or the time to purchase or install the latest version of TOOLBOX PLUS™ are not covered under product warranty.

WARRANTY - MODEL YEAR 2021 VEHICLES

TERMS AND CONDITIONS

(1) What is Covered by this Commercial Warranty?

ZF CV Systems North America LLC and its North American subsidiaries and affiliates (ZF) warrant to the owner ("Owner") that the components listed in this publication, which have been installed by an Original Equipment Manufacturer ("OEM") as original equipment will be free from defects in material and workmanship. This warranty coverage begins from the original in-service date to the limits provided and runs concurrently with any warranties provided by OEMs and/or any distribution agreements and/or any service contracts that cover the components listed in this publication, if any. If the components listed in this publication are covered by an OEM warranty and/or service contract, then the OEM's warranty and/or service contract shall supersede ZF's warranty and Owner shall comply with all OEM's warranty and/or service contract requirements for claims under such OEM's warranty and/or service contract until those agreements expire. Once those agreements expire and provided the ZF warranty has not expired under the terms stated above, the ZF warranty will be in effect until its expiration date.

Warranty coverage ends at the expiration of the applicable time period from the date of vehicle purchase by the first Owner, or, the applicable mileage limitation, whichever occurs first. Duration of coverage varies by component and vocation as detailed previously in this publication. Some components are warranted for parts only and the Owner must pay any labor costs associated with the repair or replacement of the component. Other components are warranted for both parts and reasonable labor to repair or replace the subject component. Additional diagnostic time due to use of an outdated version of TOOLBOX™, time to purchase or install latest version of TOOLBOX™ are the responsibility of the authorized ZF distributor networks and are not covered under product warranty. Components installed as replacements under this warranty are warranted only for the remainder of the original period of time or mileage under the original warranty.

(2) Designation of Vocational Use Required. To obtain warranty coverage, each Owner must notify ZF through the OEM new truck and/or trailer dealer of the intended vocational use of the vehicle into which the WABCO components have been incorporated prior to the vehicle in-service date. This notification may be accomplished by registering the vehicle through your OEM new truck and/or trailer dealer or with ZF directly. Failure to notify ZF of (I) the intended vocational use of the vehicle or (II) a change in vocational use from that which was originally designated, will result in the application of a one year, unlimited mileage, parts only warranty (1/Unl/P) from the initial in-service date. A second Owner and each subsequent Owner must also notify ZF as to the intended vocational use of the vehicle. This notification can be sent directly to ZF or through

the OEM new truck and/or trailer dealer. The duration and mileage coverage of this warranty cannot exceed the coverage extended to the first Owner after his or her initial designation of vocational use. Coverage under ZF's warranty requires that the application of products be properly approved pursuant to OEM and ZF, approvals.

- (3) What is the Cost of this Warranty? There is no charge to the Owner for this warranty.
- (4) What is not Covered by this Warranty? In addition to the items listed on "Coverage Exclusions," this warranty does not cover normal wear and tear, or service items; nor does it cover a component that fails, malfunctions or is damaged as a result of (a) improper handling, storage, installation, adjustment, repair or modification including the use of unauthorized attachments or changes or modification in the vehicle's configuration, usage, or vocation from that which was originally approved by ZF, (b) accident, fire or other casualty, natural disaster, road debris, negligence, misuse, abuse, or improper use (including loading beyond the specified maximum vehicle weight or altering engine power settings to exceed the brake system capacity), or (c) improper or insufficient maintenance (including deviation from maintenance intervals, approved lubricants, or lube levels). This warranty does not cover any component or part that is not sold by ZF.
- (5) To obtain service. If the owner discovers within the applicable coverage period a defect in material or workmanship, the Owner must promptly give notice to either ZF or the dealer from which the vehicle was purchased. To obtain service, the vehicle must be taken to any participating OEM dealer or ZF distributor networks' servicer. The dealer or ZF authorized servicer will inspect the vehicle and contact ZF for an evaluation of the claim. When authorized by ZF, the dealer or ZF authorized servicer will repair or replace during the term of this warranty any defective WABCO component covered by this warranty.
- (6) Disclaimer of Warranty and Limitation of remedies. TO THE MAXIMUM EXTENT PERMITTED BY LAW, THE LIMITED WARRANTY SET FORTH HEREIN IS EXCLUSIVE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, ARISING BY OPERATION OF LAW OR OTHERWISE, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND/OR WARRANTY FOR HIDDEN OR LATENT DEFECTS, AND IN NO EVENT WILL ZF OR ANY OF ITS AFFILIATES BE LIABLE FOR DIRECT, INDIRECT, INCIDENTAL, PROGRESSIVE, SPECIAL, OR CONSEQUENTIAL DAMAGES OF ANY KIND.

- (7) Legal action. Any legal action or claim arising from or related to this Warranty, in contract or otherwise, must be commenced within one year from the accrual of that cause of action, or be barred forever. Any dispute arising in connection with this agreement shall be governed by and construed according to the laws of the State of Michigan and be brought, heard and determined exclusively in either the Circuit Court for the County of Oakland, State of Michigan or the United States District Court for the Eastern District of Michigan. The parties stipulate that the referenced venues are convenient.
- (8) Remedy. The exclusive remedy under this warranty shall be the repair or replacement of the defective component at ZF's option. ZF reserves the right to require that all applicable covered components are available and/or returned to ZF for review and evaluation. THE MAXIMUM LIABILITY, IF ANY, OF ZF FOR ALL DAMAGES, INCLUDING WITHOUT LIMITATION CONTRACT DAMAGES, BREACH OF WARRANTY, NEGLIGENCE, STRICT LIABILITY, OR OTHER TORT, IS LIMITED TO AN AMOUNT NOT TO EXCEED THE PURCHASE PRICE OF THE PRODUCT and where indicated in the product and application warranty information above, the inclusion of labor is limited to the standard repair time. THE PARTIES ACKNOWLEDGE AND AGREE THAT THE LIMITATION OF DAMAGES PROVISION SET FORTH IN THIS PARAGRAPH SURVIVES BETWEEN THE ORIGINAL END USER AND ZF EVEN IF THE EXCLUSIVE REMEDY SET FORTH ABOVE IS DEEMED TO FAIL OF ITS ESSENTIAL PURPOSE. ZF may change the design or make improvements to its Products without incurring any warranty obligation for previously manufactured Product .
- (9) Entire Agreement. This is the entire agreement between ZF and the Owner about warranty and no, ZF employee, or dealer is authorized to make any additional warranty on behalf of ZF unless in writing and signed by an authorized representative of ZF.





**For further product details contact your distributor or the
WABCO Customer Care Center at 855-228-3203.**

About ZF Friedrichshafen AG

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO). For more information, visit: www.wabco-na.com



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity Custom Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The Pierce Custom Cab shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the cab tubular support and mounting structures and other structural components of the cab of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Cab

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the cab painted by Pierce shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10%</p> <p>Corrosion Perforation 0-120 months 100%</p> <p>This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship

Command Zone Electronics

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Command Zone control modules shall be free from failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty applies to all of the control modules for the Command Zone system, including the full color graphic displays. Related wire harnesses, cables and connectors are not covered under this limited warranty and are instead covered under the Pierce One Year Basic Apparatus Limited Warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

54 Months Material and Workmanship

Camera System

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	This limited warranty covers repairs to correct any defect related to materials or workmanship of the Sharpvision camera system installed on the apparatus occurring during the warranty period.
Warranty Begins:	The date of delivery.
Warranty Period Ends After:	Fifty - Four (54) months
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty does not apply to related wire harnesses, cables, and connectors, which are covered by the Pierce one (1) year basic apparatus limited warranty.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Material and Workmanship

Pierce 12V LED Strip Light

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	This limited warranty covers repairs to correct any defect related to materials or workmanship of the Pierce 12V LED strip lights installed on the apparatus occurring during the warranty period.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Year
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This limited warranty does not apply to related wire harnesses, cables, and connectors, which are covered by the Pierce one (1) year basic apparatus limited warranty.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

NEW PRODUCT WARRANTY



**PARTICIPATING OEM SALES
DISTRIBUTOR SALES**

LIMITED WARRANTY ON NEW ALLISON AUTOMATIC TRANSMISSIONS USED IN EMERGENCY VEHICLE APPLICATIONS

Allison Transmission will provide for repairs or replacement, at its option, during the warranty period of each new Allison transmission listed below that is installed in an Emergency Vehicle in accordance with the following terms, conditions, and limitations.

WHAT IS COVERED

- **WARRANTY APPLIES** — This warranty is for new Allison transmission models listed below installed in an Emergency Vehicle and is provided to the original and any subsequent owner(s) of the vehicle during the warranty period.
- **REPAIRS COVERED** — The warranty covers repairs or replacement, at Allison Transmission’s option, to correct any transmission malfunction resulting from defects in material or workmanship occurring during the warranty period. Needed repairs or replacements will be performed using the method Allison Transmission determines most appropriate under the circumstances.
- **TOWING** — Towing is covered to the nearest Allison Transmission Distributor or authorized Dealer only when necessary to prevent further damage to your transmission.
- **PAYMENT TERMS** — Warranty repairs, including parts and labor, will be covered per the schedule shown in the chart contained in section “APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE.”
- **OBTAINING REPAIRS** — To obtain warranty repairs, take the vehicle to any Allison Transmission Distributor or authorized Dealer within a reasonable amount of time and request the needed repairs. A reasonable amount of time must be allowed for the Distributor or Dealer to perform necessary repairs.
- **TRANSMISSION REMOVAL AND REINSTALLATION** — Labor costs for the removal and re-installation of the transmission, when necessary to make a warranty repair, are covered by this warranty.
- **WARRANTY PERIOD** — The warranty period for all coverages shall begin on the date the transmission is delivered to the first retail purchaser, with the following exception:

Demonstration Service - A transmission in a new truck or bus may be demonstrated to a total of 5000 miles (8000 kilometers). If the vehicle is within this limit when sold to a retail purchaser, the warranty start date is the date of purchase. Normal warranty services are applicable to the demonstrating Dealer. Should the truck or bus be sold to a retail purchaser after these limits are reached, the warranty period will begin on the date the vehicle was first placed in demonstration service and the purchaser will be entitled to the remaining warranty.

APPLICABLE MODELS, WARRANTY LIMITATIONS, AND ADJUSTMENT SCHEDULE

APPLICABLE MODELS	WARRANTY LIMITATIONS (Whichever occurs first)		ADJUSTMENT CHARGE TO BE PAID BY THE CUSTOMER	
	Months	Transmission Miles Or Kilometers	Parts	Labor
MT, MD 3000, 3200, 3500, 3700	0-24	No Limit	No Charge	No Charge
HT with Hydraulic Controls	0-24	No Limit	No Charge	No Charge
AT, 1000 Series™, 2000 Series™, 2400 Series™	0-36	No Limit	No Charge	No Charge
HT with Electronic Controls	0-60	No Limit	No Charge	No Charge
HD 1000 EVS, 2100 EVS, 2200 EVS 2350 EVS, 2500 EVS, 2550 EVS, 3000 EVS, 3500 EVS, 4000, 4000 EVS, 4500, 4500 EVS, 4700, 4700 EVS, 4800, 4800 EVS	0-60	No Limit	No Charge	No Charge

WHAT IS NOT COVERED

- **DAMAGE DUE TO ACCIDENT, MISUSE, or ALTERATION** — Defects and damage caused as the result of any of the following are not covered:
 - Flood, collision, fire, theft, freezing, vandalism, riot, explosion, or objects striking the vehicle;
 - Misuse of the vehicle;
 - Installation into unapproved applications and installations;
 - Alterations or modification of the transmission or the vehicle, and
 - Damage resulting from improper storage (refer to long-term storage procedure outlined in the applicable Allison Service Manual)
 - Anything other than defects in Allison Transmission material or workmanship

NOTE: This warranty is void on transmissions used in vehicles currently or previously titled as salvaged, scrapped, junked, or totaled.

- **CHASSIS, BODY, and COMPONENTS** — The chassis and body company (assemblers) and other component and equipment manufacturers are solely responsible for warranties on the chassis, body, component(s), and equipment they provide. Any transmission repair caused by an alteration(s) made to the Allison transmission or the vehicle which allows the transmission to be installed or operated outside of the limits defined in the appropriate Allison Installation Guideline is solely the responsibility of the entity making the alteration(s).
- **DAMAGE CAUSED by LACK of MAINTENANCE or by the USE of TRANSMISSION FLUIDS NOT RECOMMENDED in the OPERATOR'S MANUAL** — Defects and damage caused by any of the following are not covered:
 - Failure to follow the recommendations of the maintenance schedule intervals applicable to the transmission;
 - Failure to use transmission fluids or maintain transmission fluid levels recommended in the Operator's Manual.
- **MAINTENANCE** — Normal maintenance (such as replacement of filters, screens, and transmission fluid) is not covered and is the owner's responsibility.
- **REPAIRS by UNAUTHORIZED DEALERS** — Defects and damage caused by a service outlet that is not an authorized Allison Transmission Distributor or Dealer are not covered.
- **USE of OTHER THAN GENUINE ALLISON TRANSMISSION PARTS** — Defects and damage caused by the use of parts that are not genuine Allison Transmission parts are not covered.
- **EXTRA EXPENSES** — Economic loss and extra expenses are not covered. Examples include but are not limited to: loss of vehicle use; inconvenience; storage; payment for loss of time or pay; vehicle rental expense; lodging; meals; or other travel costs.
- **"DENIED PARTY" OWNERSHIP** — Warranty repair parts and labor costs are not reimbursed to any participating or non-participating OEMs, dealers or distributors who perform warranty work for, or on behalf of, end users identified by the United States as being a "denied party" or who are citizens of sanctioned or embargoed countries as defined by the U.S. Department of Treasury Office of Foreign Assets Control. Furthermore, warranty reimbursements are not guaranteed if the reimbursement would be contrary to any United States export control laws or regulations as defined by the U.S. Department of Commerce, the U.S. Department of State, or the U.S. Department of Treasury.

OTHER TERMS APPLICABLE TO CONSUMERS AS DEFINED by the MAGNUSON-MOSS WARRANTY ACT

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Allison Transmission does not authorize any person to create for it any other obligation or liability in connection with these transmissions.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE APPLICABLE TO THESE TRANSMISSIONS IS LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY. PERFORMANCE OF REPAIRS AND NEEDED ADJUSTMENTS IS THE EXCLUSIVE REMEDY UNDER THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (SUCH AS, BUT NOT LIMITED TO, LOST WAGES OR VEHICLE RENTAL EXPENSES) RESULTING FROM BREACH OF THIS WRITTEN WARRANTY OR ANY IMPLIED WARRANTY.**

** Some states do not allow limitations on how long an implied warranty will last or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

OTHER TERMS APPLICABLE TO OTHER END-USERS

THIS WARRANTY IS THE ONLY WARRANTY APPLICABLE TO THE ALLISON TRANSMISSION MODELS LISTED ABOVE AND IS EXPRESSLY IN LIEU OF ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ALLISON TRANSMISSION DOES NOT AUTHORIZE ANY PERSON TO CREATE FOR IT ANY OTHER OBLIGATION OR LIABILITY IN CONNECTION WITH SUCH TRANSMISSIONS. ALLISON TRANSMISSION SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM BREACH OF THIS WARRANTY OR ANY IMPLIED WARRANTY.

QUESTIONS

If you have any questions regarding this warranty or the performance of warranty obligations, you may contact any Allison Transmission Distributor or Dealer or write to:

Allison Transmission, Inc.
P.O. Box 894
Indianapolis, IN 46206-0894
Attention: Warranty Administration PF-9



Fire and Rescue Apparatus

Five (5) Year Material and Workmanship - Transmission Oil Cooler Three (3) Year Collateral Damage Coverage

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The transmission cooler shall be free from component or structural failures caused by defects in material and/or workmanship. Collateral damage up to \$10,000 per occurrence is available for the first three (3) years.
Warranty Begins:	The date of delivery to the first retail purchaser.
Warranty Period Ends After:	Five (5) Years on Oil Cooler and three (3) years on collateral damage coverage
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This warranty does not cover repair due to accidents, misuse, and excessive vibration, flying debris, storage damage (freezing), negligence or modification. This warranty is void if any modification or repairs are performed without authorization. This also voids any future warranty.</p> <p>This warranty does not cover cost of maintenance or repairs due to lack of required maintenance services as recommended. Performance of the required maintenance and use of proper fluids are the responsibility of the owner.</p> <p>Towing is covered to the nearest distributor or authorized dealer only when necessary to prevent further damage to your transmission.</p> <p>Labor costs for the removal and reinstallation of goods may be covered when necessary to make repairs. Please contact your OEM for authorization.</p> <p>Replacement of cooler during the warranty period is limited to 100% of reasonable labor costs up to a maximum of \$700 to remove, replace, or repair the oil cooler.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Structural Integrity

Apparatus Body

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The apparatus body shall be free from structural failures caused by defects in material and workmanship
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the body tubular support and mounting structures and other structural components of the body of the vehicle model, as identified in the Pierce specifications for the Fire and Rescue Apparatus. This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Pierce Warranty Statement for Gortite Roll Up Doors Rev 2/24/2011

All mechanical components of the door shall be warranted to be free from defects in materials and workmanship for the lifetime of the vehicle. All parts covered under this warranty shall be to the original owner.

A&A manufacturing warrants that painted doors shall be free of blistering, peeling, bubbling, or any other adhesion defect caused by defective manufacturing methods or paint material selection. The time period for the coverage shall be 6 years from date of door shipment to Pierce. Satin anodized finish doors shall be warranted for 6 years against corrosion defects from date of door shipment to Pierce. Replacement of decals/Scotchlite is not covered.

The maximum amount A&A will reimburse for labor is \$60.00 per hour and the maximum amount of time allowed for repair is as follows:

Door	1.0 Hr.
Slat Replacement	1.0 Hr.
Pennant Plate Replacement	1.0 Hr.
Roller Replacement	.5 Hr.
Seal Replacement	.5 Hr.
Switch/Magnet Replacement	1.0 Hr.
Travel Time	4.0 Hr.



Fire and Rescue Apparatus

Twenty (20) Year Structural Integrity Pierce Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each new Pierce Aerial Device shall be free from defects in material and workmanship. Aerial Device Models Covered by this warranty include: Aerial Platforms Aerial Ladders SkyBoom
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Twenty (20) Years - or - 100,000 Miles
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty applies only to the torque box, turntable, aerial sections and other structural components of the aerial device, as identified in the Pierce specifications for the aerial device. This warranty shall be void if, or to the extent that the aerial device is not maintained in strict compliance with NFPA Standard 1911 in effect at time of sale, including such periodic inspections and testing by qualified third parties as are required by that Standard as it may be in effect from time to time. Proof of such compliance shall accompany any claims under this warranty. Third party testing agencies known to Pierce to be qualified for such purposes may be obtained from the Pierce Customer Service Department This warranty does not apply to damage caused by corrosion.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY.

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES.

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



AMITY FIRE AND SAFETY, INC.

3750 CHESTNUT ROAD
ALBURTIS, PA 18011-0451
Phone: 610-966-3115
Fax: 610-965-6313

* STANDARD FIVE YEAR WARRANTY *

(standard warranty is in effect for parts shipped after 4/15/10)

Three Function Swivel

A. PRESHIPMENT TESTING The Three Function Swivel fabricated by Amity which is exposed to pressure during normal use is subject to final inspection using the following pressure minimums:

1. Hydrostatic applications will be tested to 400 PSI unless specified otherwise on approved drawings. Operating pressures on installed systems are not to exceed 250 PSI at any point in the system. Warranty will be voided and Amity will not be held liable for failure and/or damage occurring from Water Hammering or freezing of water in any system.
2. Hydraulic applications will be tested to 4000 PSI. System operating pressure in application to be 3000 PSI maximum.
3. Dielectric and Continuity Test all circuits. 30 Amp max current loading.

B. THREE FUNCTION SWIVEL MAINTENANCE – Our Three Function Swivel has been fully tested at assembly. Under no circumstances is there to be any maintenance performed internally or externally to the Three Function Swivel by Purchaser or any other third party other than an authorized representative of or Amity itself. The Three Function Swivel is sealed and must remain so. The Three Function Swivel is designed for a long maintenance free life. Should any problems occur or replacement be necessary, first contact Amity. There is to be no field maintenance performed on the Three Function Swivel .

C. MOUNTING REQUIREMENTS – The following are the mounting requirements for the Three Function Swivel:

1. Mounting points and methods are to be determined at the initial design stage. All drawings and applicable documentation must be signed off by both parties and filed for future reference. No deviation to the approved mounting is allowed without approval from Amity.
2. The Three Function Swivel is to be mounted concentric to the center of the turntable bearing.
3. All inlet and outlet plumbing to conform to swivel mounting, under no circumstances is the Three Function Swivel to be positioned to match connections. This will avoid putting excessive loads on the Three Function Swivel. All tubing or piping to be supported by means other than the Three Function Swivel.

D. LIMITED WARRANTY, LIMITATIONS, CONDITIONS AND PROCEDURES REQUIRED.

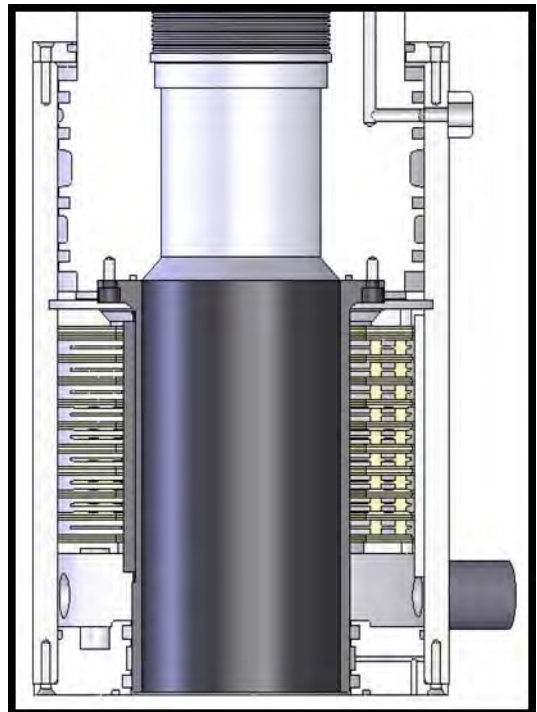
1. The Three Function Swivel is warranted to be free of defects in labor and/or materials for a period of five (5) years from the Date of Service. For purposes here, "Date of Service" shall mean the date when the Three Function Swivel, or the unit to which the Three Function Swivel is incorporated, passes final Underwriters Laboratory testing, or similarly compliant testing, and is certified for service. Evidence of such Date of Service shall be required in connection with any warranty claim by Purchaser.
2. The Three Function Swivel shall be repaired or replaced at the sole option and expense of the Amity provided the Three Function Swivel alleged to be defective was used for its intended normal use of operation and subject to the following qualifications and limitations.
3. Any alteration of the Three Function Swivel without consent from Amity is strictly forbidden and shall void warranty.
4. No welding shall be performed on finished Three Function Swivel.
5. No responsibility is assumed for any malfunctions or damages which are occasionally caused by foreign objects which may be ingested into water or hydraulic systems such as, but not limited to stones, sand or metal chips.
6. Amity assumes responsibility for our Three Function Swivel, which is defective only, and therefore, it will not assume responsibility for labor to either remove or install our Three Function Swivel unless it agrees in writing to assume such responsibility.
7. Unless otherwise approved in writing by the Amity all returns of defective Three Function Swivels (or allegedly defective Three Function Swivels) are at Purchaser's expense and must include a RGA number issued by the Amity.

8. All warranty claims must be presented at the time the problem occurs, or as soon as practical thereafter, either called or faxed to the Amity and include the numbers on the assembly's Amity's label with a detailed explanation of the difficulty in order for the matter to be appropriately evaluated and resolved.
9. Amity will not be held liable for damage incurred during shipment.
10. No responsibility shall be assumed for misuse or improper mounting, unreasonably use or abuse of the Three Function Swivel and or failure to provide or use improper maintenance, failure to follow written installation and use in instruction or any use other than the customary designed use.

THE REMEDIES PROVIDED IN THE ABOVE EXPRESS LIMITED WARRANTY AND ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE. NO OTHER EXPRESS WARRANTIES ARE MADE. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE ARE LIMITED IN DURATION AS SET FORTH ABOVE. IN NO EVENT SHALL THE AMITY ASSUME OR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THE WITHIN DESCRIBED WARRANTY SHALL ONLY BE AFFORDED TO THE ORIGINAL PURCHASER OR FOR INCORPORATION INTO ANOTHER UNIT AND TO FIRST PURCHASER AS PART OF COMPLETED UNIT, HOWEVER, THE WARRANTY PERIOD OF FIVE YEARS IS FROM THE DATE OF SERVICE WITH THE UNDERSTANDING IT IS INSTALLED WITHIN A REASONABLE TIME PERIOD.

Dated: _____, 20__





Fire and Rescue Apparatus

Five (5) Year Material and Workmanship Aerial Hydraulic System Components

Three (3) Year Material and Workmanship Aerial Hydraulic System Seals

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	The aerial hydraulic system components and seals shall be free from component or structural failures caused by defects in material and/or workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Five (5) Years and Three (3) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	Pierce's obligation under this warranty is limited to repairing or replacing without charge, as Pierce may elect, the hydraulic lines, fittings, valves, seals, cylinders, filters, pumps, hydraulic motors, rotary actuators, or components which Pierce determines to have failed due to defective material and workmanship. This warranty shall not apply unless the aerial device is inspected in accordance with NFPA 1911 Standard for Inspection, Maintenance, Testing, and Retirement of In-Service Automotive Fire Apparatus and the applicable Pierce Operator and Maintenance Manuals.

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



AMITY FIRE AND SAFETY, INC.

3750 CHESTNUT ROAD
ALBURTIS, PA 18011-0451
Phone: 610-966-3115
Fax: 610-965-6313

* STANDARD TEN YEAR WARRANTY *

(standard warranty is in effect for parts shipped after 4/15/10)

Telescopic Waterways

A. PRESHIPMENT TESTING All waterways fabricated by Amity are final inspected using the following pressure minimums:

1. Hydrostatic applications will be tested to 400 PSI unless specified otherwise on approved drawings. Operating pressures on installed systems are not to exceed 250 PSI at any point in the system. Warranty will be voided and Amity will not be held liable for failure and/or damage occurring from Water Hammering or freezing of water in any system.

B. COMPONENTS DESCRIPTION AND MAINTENANCE

1. All components are thoroughly greased at assembly. Since internally lubricated seals are used, regular greasing is not required. We recommend components not be greased at installation.
2. Slip Tube Assemblies may be greased at the Amity's regularly scheduled Aerial Inspections. The seals in the Slip Tube Assemblies are self-lubricating, so greasing is not mandatory. We do recommend a visual inspection of the Slip Tube Assembly while it is fully extended after initial installation, from that point on we recommend inspection every ten hours of aerial operation. If any deposits of aluminum appear, they are to be rubbed off using a Teflon scouring pad. Slip Tube Assemblies are designed to give long maintenance free service; however, like any product, problems may occur and periodic visual inspections will aid in determining if a potential problem exists and warrants a call to us. Care must be taken to keep debris off of extended tubes. We recommend wiping tubes with light oil (10 weight) or hydraulic oil after use, if tubes appear to have contamination on them. Under no circumstance are tubes to be cleaned with lacquer thinner, or any other solvent.

C. LIMITED WARRANTY, LIMITATIONS, CONDITIONS AND PROCEDURES REQUIRED.

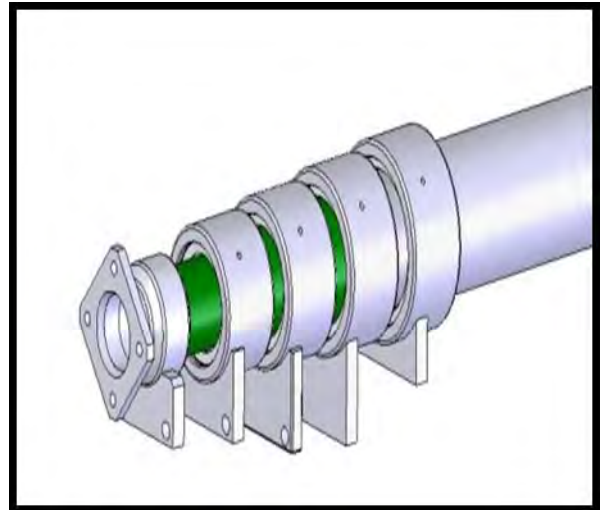
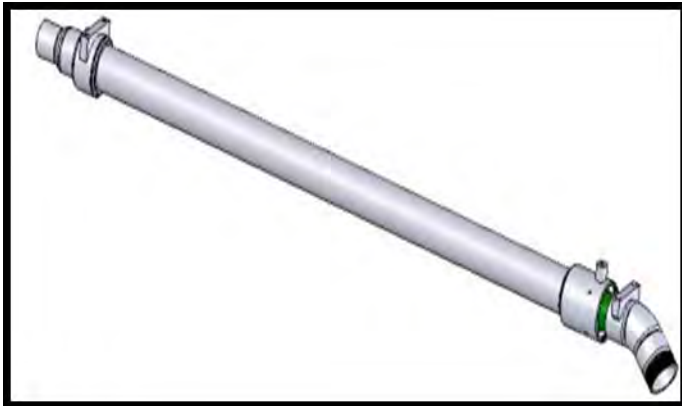
1. Products are warranted to be free of defects in labor and/or materials for a period of ten years from the date of purchase from the Amity and shall be repaired or replaced at the sole option and expense of the Amity provided the products alleged to be defective was used for its intended normal use operation and subject to the following qualifications and limitations.
2. Any alteration of product without consent from Amity is strictly forbidden and shall void warranty.
3. No welding shall be performed on finished product.
4. No responsibility is assumed for any malfunctions or damages which are occasionally caused by foreign objects which may be ingested into water system such as, but not limited to stones, sand or metal chips.
5. Amity assumes responsibility for our product, which is defective only, and therefore, it will not assume responsibility for labor to either remove or install our product unless it agrees in writing to assume such responsibility.
6. Unless otherwise approved in writing by the Amity all returns of defective (or allegedly defective products) are at Purchaser's expense and must include a RGA number issued by the Amity.
7. All warranty claims must be presented at the time the problem occurs, or as soon as practical thereafter, either called or faxed to the Amity and include the numbers on the assembly's Amity's label with a detailed explanation of the difficulty in order for the matter to be appropriately evaluated and resolved.
8. Amity will not be held liable for damage incurred during shipment.
9. No responsibility shall be assumed for misuse or improper mounting, unreasonably use or abuse of the Product and or failure to provide or use improper maintenance, failure to follow written installation and use in instruction or any use other than the customary designed use.

THE REMEDIES PROVIDED IN THE ABOVE EXPRESS LIMITED WARRANTY AND ARE THE SOLE AND EXCLUSIVE REMEDIES AVAILABLE. NO OTHER EXPRESS WARRANTIES ARE MADE. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR

FITNESS FOR A PARTICULAR PURPOSE OR USE ARE LIMITED IN DURATION AS SET FORTH ABOVE. IN NO EVENT SHALL THE AMITY ASSUME OR BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

THE WITHIN DESCRIBED WARRANTY SHALL ONLY BE AFFORDED TO THE ORIGINAL PURCHASER OR FOR INCORPORATION INTO ANOTHER UNIT AND TO FIRST PURCHASER AS PART OF COMPLETED UNIT, HOWEVER, THE WARRANTY PERIOD OF TEN YEARS COMMENCES UPON INSTALLATION INTO FINAL ASSEMBLY WITH THE UNDERSTANDING IT IS INSTALLED WITHIN SIX MONTHS OF PURCHASE.

Dated: _____, 20__





Fire and Rescue Apparatus

Four (4) Year Pro-Rated Paint and Corrosion

Aerial Device

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Aerial device shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection for exterior surfaces.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Four (4) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-24 months 100% 25-48 months 50%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-24 months 100% 25-48 months 50%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-24 months 100% 25-48 months 50%</p> <p>Corrosion Perforation 0-24 months 100% 25-48 months 50%</p> <p>This limited warranty applies only to exterior paint.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Ten (10) Year Pro-Rated Paint and Corrosion

Custom Body

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Exterior surfaces of the body shall be free from blistering, peeling, corrosion or any other adhesion defect caused by defective manufacturing methods or paint material selection.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Ten (10) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	<p>This limited warranty is applicable to the vehicle in the following percentage costs of warranty repair, if any:</p> <p>Topcoat Durability & Appearance: Gloss, Color Retention & Cracking 0-72 months 100% 73-96 months 50% 97-120 months 25%</p> <p>Integrity of Coating System: Adhesion, Blistering/Bubbling 0-36 months 100% 37-84 months 50% 85-120 months 25%</p> <p>Corrosion: Dissimilar Metal and Crevice 0-36 months 100% 37-48 months 50% 49-72 months 25% 73-120 months 10%</p> <p>Corrosion Perforation 0-120 months 100%</p> <p>This limited warranty applies only to exterior paint. Paint on the vehicle's interior is warranted only under the Pierce Basic One Year Limited Warranty.</p> <p>Items not covered by this warranty include: (a) Damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual). (b) UV paint fade. (c) Any cab not manufactured by Pierce.</p>

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

2. DISCLAIMERS OF WARRANTIES

THE WARRANTY SET FORTH IN PARAGRAPH 1 IS THE SOLE AND EXCLUSIVE WARRANTY GIVEN BY PIERCE. PIERCE HEREBY DISCLAIMS AND EXCLUDES ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY WARRANTY OF MERCHANTABILITY, ANY WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, AND ANY WARRANTIES ARISING FROM COURSE OF DEALING OR USAGE OF TRADE.

3. BUYER'S EXCLUSIVE REMEDY

If the product fails to conform to the warranty set forth in paragraph 1 during the warranty period, and such nonconformity is not due to misuse, neglect, accident or improper maintenance, Buyer must notify Pierce within the time period specified in paragraph 1, and shall make the product available for inspection by Pierce or its designated agent. At the request of Pierce, any allegedly defective product shall be returned to Pierce by Buyer for examination and/or repair. Buyer shall be responsible for the cost of such transportation, and for risk of loss of or damage to the product during transportation. Within a reasonable time, Pierce shall repair or replace (at Pierce's option and expense) any nonconforming or defective parts. Repair or replacement shall be made only by a facility approved in advance in writing by Pierce. THIS REMEDY SHALL BE THE EXCLUSIVE AND SOLE REMEDY FOR ANY BREACH OF WARRANTY.

4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



Fire and Rescue Apparatus

Three (3) Year Material and Workmanship

Goldstar® Gold Leaf Lamination

Limited Warranty

1. LIMITED WARRANTY

Subject to the limitations and exclusions set forth below, Pierce Manufacturing provides the following warranty to the Buyer:

Coverage:	Each Goldstar® gold leaf lamination shall be free from defects in material and workmanship.
Warranty Begins:	The date of the original purchase invoice (issued when the product ships from the factory).
Warranty Period Ends After:	Three (3) Years
Conditions and Exclusions: See Also Paragraphs 2 thru 4	This warranty does not cover damage from lack of maintenance and cleaning (proper cleaning and maintenance procedures are detailed in the Pierce operation and maintenance manual).

This limited warranty shall apply only if the product is properly maintained in accordance with Pierce's maintenance instructions and manuals and is used in service which is normal to the particular model. Normal service means service which does not subject the product to stresses or impacts greater than normally result from careful use. If the Buyer discovers a defect or nonconformity, it must notify Pierce in writing within thirty (30) days after the date of discovery, but in any event prior to the expiration of the warranty period. THIS LIMITED WARRANTY MAY NOT BE ASSIGNED OR OTHERWISE TRANSFERRED BY THE BUYER TO ANY SUBSEQUENT USER OR PURCHASER OR TO ANY OTHER PERSON OR ENTITY.

Notwithstanding anything to the contrary herein, Pierce makes no warranty whatsoever as to:

(a) any integral parts, components, attachments or trade accessories of or to the product that are not manufactured by Pierce, including but not limited to engines, transmissions, drivelines, axles, water pumps and generators; with respect to all such parts, components, attachments and accessories, Pierce shall assign to Buyer the applicable warranties, if any, made by the respective manufacturers thereof;

(b) any vehicle, chassis, or component, part, attachment or accessory damaged by misuse, neglect, fire, exposure to severe environmental or chemical conditions, acidic environment, improper maintenance, accident, crash, or force majeure such as natural disaster, lightning, earthquake, windstorm, hail, flood, war or riot;

(c) any vehicle, chassis or component, part, attachment or accessory that has been repaired, altered or assembled in any way by any person or entity other than Pierce which, in the sole judgment of Pierce, adversely affects the performance, stability or purpose for which it was manufactured; or

(d) products or parts which may in the ordinary course wear out and have to be replaced during the warranty period, including, but not limited to, tires, fluids, gaskets and light bulbs. Pierce assumes no responsibility for the assembly of its parts or subassemblies into finishing products or vehicles unless the assembly is performed by Pierce.

The original purchaser may void this warranty in part or in its entirety if the product is repaired or replaced (a) without prior written approval of the Pierce Customer Service Department; or (b) at a facility which has not been approved by Pierce as to technical capability. Any repairs, modifications, alterations or aftermarket parts added after manufacture without the authorization of Pierce may void this warranty.

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4. EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES

Notwithstanding anything to the contrary herein or in any agreement between Pierce and Buyer, IN NO EVENT SHALL PIERCE BE LIABLE FOR ANY CONSEQUENTIAL, INCIDENTAL, SPECIAL, INDIRECT, OR PUNITIVE DAMAGES WHATSOEVER, WHETHER ARISING OUT OF BREACH OF CONTRACT, WARRANTY, TORT (INCLUDING NEGLIGENCE AND STRICT LIABILITY) OR OTHER THEORY OF LAW OR EQUITY, WITH RESPECT TO VEHICLES OR OTHER PRODUCTS SOLD BY PIERCE, OR THEIR OPERATION OR FAILURE TO OPERATE, OR ANY DEFECTS THEREIN, OR ANY UNDERTAKINGS, ACTS OR OMISSIONS RELATED THERETO, REGARDLESS OF WHETHER PIERCE HAS BEEN INFORMED OF THE POSSIBILITY OF ANY SUCH DAMAGES. Without limiting the generality of the foregoing, Pierce specifically disclaims any liability for property or personal injury damages, penalties, damages for lost profits or revenues, loss of vehicles or products or any associated equipment, cost of substitute vehicles or products, down-time, delay damages, any other types of economic loss, or for any claims by any third party for any such damages.

Note: Any Surety Bond, if a part of the sale of the vehicle as to which this limited warranty is provided, applies only to this Pierce Basic One Year Limited Warranty for such vehicle, and not to other warranties made by Pierce in a separate document (if any) or to the warranties (if any) made by any manufacturer (other than Pierce) of any part, component, attachment or accessory that is incorporated into or attached to the vehicle.



County of El Dorado

Minutes - Final Board of Supervisors

Board of Supervisors
Department
330 Fair Lane, Building A
Placerville, California
530-621-5390
FAX 530-622-3645
www.edcgov.us/bos

Lori Parlin, Chair, District IV
Wendy Thomas, First Vice Chair, District III
John Hidahl, Second Vice Chair, District I
George Turnboo, District II
Sue Novasel, District V

Kim Dawson, Clerk of the Board of Supervisors
Don Ashton, Chief Administrative Officer
David Livingston, County Counsel

Tuesday, July 19, 2022

9:00 AM

<https://edcgov-us.zoom.us/j/89052290714>

330 Fair Lane, Building A
Placerville, CA
OR
Live Streamed - [Click here to view](#)

ADDENDUM

Item 56 is hereby added to the Consent Calendar.

PUBLIC PARTICIPATION INSTRUCTIONS: The Board of Supervisors meeting room will be open to the public. The meeting will continue to be live-streamed via Zoom and YouTube.

Members of the public may address the Board in-person or via Zoom to make a public comment. The public should call into 530-621-7603 or 530-621-7610. The Meeting ID is 890 5229 0714. Please note you will be able to join the live-stream 15 minutes prior to the posted meeting start time.

To observe the live stream of the Board of Supervisors meeting go to <https://us06web.zoom.us/j/89052290714>.

To observe the Board of Supervisors meetings via YouTube, click <https://www.youtube.com/channel/UCUMjDk3NUItZJrpw2CL7Zkg>.

If you are joining the meeting via zoom and wish to make a comment on an item, press the "raise a hand" button. If you are joining the meeting by phone, press *9 to indicate a desire to make a comment. Speakers will be limited to 3 minutes.

By participating in this meeting, you acknowledge that you are being recorded.

If you choose not to observe the Board of Supervisors meeting but wish to make a comment on a specific agenda item, please submit your comment in writing. You are encouraged to submit your comment in writing by 4:00 PM on the Monday before the meeting to ensure the Board of Supervisors has adequate time to review. Please submit your comment to the Clerk of the Board at edc.cob@edcgov.us. Your comment will be placed into the record and forwarded to the Board of Supervisors

Vision Statement

**Safe, healthy and vibrant communities, respecting our natural resources
and historical heritage**

This institution is an equal opportunity provider and employer.

Live Web Streaming and archiving of most Board of Supervisors meeting videos, all meeting agendas, supplemental materials and meeting minutes are available on the internet at:
<http://eldorado.legistar.com/Calendar.aspx>

The County of El Dorado is committed to ensuring that persons with disabilities are provided the resources to participate in its public meetings. Please contact the office of the Clerk of the Board if you require accommodation at 530-621-5390 or via email, edc.cob@edcgov.us, preferably no less than 24 hours in advance of the meeting.

The Board of Supervisors is concerned that written information submitted to the Board the day of the Board meeting may not receive the attention it deserves. The Board Clerk cannot guarantee that any FAX, email, or mail received the day of the meeting will be delivered to the Board prior to action on the subject matter.

The Board meets simultaneously as the Board of Supervisors and the Board of Directors of the Air Quality Management District, In-Home Supportive Services, Public Housing Authority, Redevelopment Agency and other Special Districts.

For Purposes of the Brown Act § 54954.2 (a), the numbered items on this Agenda give a brief description of each item of business to be transacted or discussed. Recommendations of the staff, as shown, do not prevent the Board from taking other action.

Materials related to an item on this Agenda submitted to the Board of Supervisors after distribution of the agenda packet are available for inspection during normal business hours in the public viewing packet located in Building A, 330 Fair Lane, Placerville or in the Board Clerk's Office located at the same address. Such documents are also available on the Board of Supervisors' Meeting Agenda webpage subject to staff's ability to post the documents before the meeting.

PROTOCOLS FOR PUBLIC COMMENT

Public comment will be received at designated periods as called by the Board Chair.

Public comment on items scheduled for Closed Session will be received before the Board recesses to Closed Session.

Except with the consent of the Board, individuals shall be allowed to speak to an item only once.

On December 5, 2017, the Board adopted the following protocol relative to public comment periods. The Board adopted minor revisions to the protocol on August 24, 2021, incorporated herein:

The Board wants all members of the public to feel welcome to speak, especially regarding controversial items. Time for public input will be provided at every Board of Supervisors meeting. Individuals will have three minutes to address the Board. If the three minutes are exceeded the speaker's microphone will be muted. Applause or other outbursts are not allowed in the Board Chambers.

During noticed public hearings only, individuals authorized by organizations to speak to organizational positions may request additional time, up to five minutes.

Public comment on certain agenda items designated and approved by the Board may be treated differently within specific time limits per speaker or a limit on the total amount of time designated for public comment. It is the intent of the Board that quasi-jurisdictional matters have additional flexibility depending on the nature of the issue. The Board Chair may limit public comment during Open Forum.

Individual Board members may ask clarifying questions but will not engage in substantive dialogue with persons providing input to the Board.

If a person providing input to the Board creates a disruption by refusing to follow Board guidelines, the Board Chair may take the following actions:

- Step 1. Request the person adhere to Board guidelines. If the person refuses, the Board Chair may turn off the speaker's microphone.
- Step 2. If the disruption continues, the Board Chair may order a recess of the Board meeting.
- Step 3. If the disruption continues, the Board Chair may order the removal of the person from the Board meeting.

9:00 A.M. - CALLED TO ORDER

Present: 5 - Supervisor Novasel, Supervisor Hidahl, Supervisor Parlin, Supervisor Thomas and Supervisor Turnboo

INVOCATION AND PLEDGE OF ALLEGIANCE TO THE FLAG

The Board received the Invocation from Lars Knutson.

Supervisor Thomas led the Pledge of Allegiance to the Flag.

ADOPTION OF THE AGENDA AND APPROVAL OF CONSENT CALENDAR

Public Comment: J. Connolly, J. Harn, M. Lane, K. Greenwood

A motion was made by Supervisor Thomas, seconded by Supervisor Hidahl to Adopt the Agenda and Approve the Consent Calendar with the following change:

Pull item 6 for discussion.

Yes: 5 - Novasel, Hidahl, Parlin, Thomas and Turnboo

[22-1362](#)

Public Comment on the Consent Calednar

The Board may make any necessary additions, deletions or corrections to the agenda including moving items to or from the Consent Calendar and adopt the agenda and the Consent Calendar with one single vote. A Board member may request an item be removed from the Consent Calendar for discussion and separate Board action. At the appropriate time as called by the Board Chair, members of the public may make a comment on matters on the Consent Calendar prior to Board action.

CONSENT CALENDAR

1. [22-1212](#) Clerk of the Board recommending the Board approve the Minutes from the regular meeting on June 26, 2022.

This matter was Approved on the Consent Calendar.

GENERAL GOVERNMENT - CONSENT ITEMS

2. [22-1021](#) Chief Administrative Office and Planning and Building, Economic Development Division, recommending the Board:
 - 1) Award one Non-Profit Organization COVID-19 Economic Impact Grant to Oak Ridge High School Community Foundation, in an amount of \$35,000;
 - 2) Authorize the Chief Administrative Officer, or designee, to execute the grant award, utilizing the Board-approved grant funding agreement template, and all other documents necessary to award the Economic Impact Grant.

FUNDING: American Rescue Plan Act (ARPA) State and Local Fiscal Recovery Funds (SLFRF).

This matter was Approved on the Consent Calendar.

3. [22-1207](#) Chief Administrative Office recommending the Board adopt and authorize the Chair to sign Resolution **107-2022** accepting the exchange of property tax increments for the annexation of one parcel (APN 105-190-042-100) into the El Dorado Fire Protection District service area, Local Agency Formation Commission Project 2022-01.

FUNDING: General Fund.

Resolution 107-2022 was Adopted upon Approval of the Consent Calendar.

4. [22-1249](#) Chief Administrative Office recommending the Board:
 - 1) Order the Auditor-Controller to disburse \$600,000 from the El Dorado County Fire Protection District ("District") Impact Mitigation Fee account to the District for a ladder truck to be placed at Station 28 in Shingle Springs; and
 - 2) Conceptually approve the use of development impact mitigation fees for the expansion of Fire Station no.17 in Pollock Pines, in the amount of \$600,000 as part of a new project to expand the District's capabilities to serve new development that has occurred within the District.

FUNDING: Development Impact Mitigation Fees.

This matter was Approved on the Consent Calendar.



To: Board of Directors
From: Tim Cordero, Fire Chief
Date: August 10, 2022
Subject: Image Trend RMS

The District has been looking into a replacement Report Management System (RMS) as we received notification that ESO Firehouse will be reaching its end of support due to the age of the system. Captain Lindberg has been the District representative, along with other agencies in the County to review and evaluate the various RMS platforms that are available. Upon completion of the review process, our District, along with others in the County, have determined that Image Trend would best meet the needs of our District.

Image Trend as our RMS platform provides several enhancements for the District and the following are some of those features:

- CAD integration
- Telestaff integration
- Common RMS platform with our medic units
- Ability to push reporting information to the website
- Streamline process with the upcoming engine PCR requirements
- Ease of submittal for first responder fee billing
- Modern RMS platform

The upgraded RMS is more costly than our current Firehouse RMS platform, however, recommending funding for this upgrade would be our first responder fee program. If approved our final budget would reflect this upgrade.

Costs for the Image Trend RMS Platform are as follows:

- Initial Setup cost - \$44,817.00

- Initial CAD integration - \$9,000.00
- Annual Image Trend and Support (year 2+) - \$38,407.00
- Annual CAD Integration Support (year 2+) - \$5,000.00
- Initial payment to secure pricing (included in initial cost) - \$6,410.00

First year cost: \$53,817.00

Future years: \$43,407.00

Staff would recommend the Board approve the movement of our RMS Platform to Image Trend and authorize the Fire Chief to enter into contract with Image Trend, and adjust the final budget to reflect this purchase with funding from the First Responder Fee program.

Chief Cordero,

Attached to this you will find two quotes. One is for the implementation of Image Trend for our incident reporting software. As you are aware, Firehouse is set to expire December 31st of this year. Expiration aside, we have been in need of new Incident reporting software for some time now. I sat on a committee a couple years back with Diamond Springs Fire and El Dorado Hills Fire to research and determine a potential company to provide new incident reporting as all three of our agencies used Firehouse. During the meetings we reviewed 4 different products and in the end Image Trend appeared to meet all our needs. Since then, El Dorado Hills has transitioned to Image Trend and Diamond Springs is currently in the process of transitioning.

Coinciding with the implementation are a few steps that we need to take if the Fire Board approves the purchase of Image Trend for our department. First would be gaining integration with Camino Dispatch's CAD system. This would grant us the ability to utilize the full benefits of Image Trend in allowing times and units to auto-populate into the Image trend NFIRS report. The quote attached from Peraton is the IT company that handles setting up that integration through CAD. The second quote is from Image Trend themselves with a detailed breakdown of the services it will provide. There have been a few adjustments to the quote to meet the needs of our district.

Besides NFIRS reporting Image Trend has a fairly seamless integration of batching and sending incidents that would be flagged for both Fire Recovery as well as the First Responder Fee. Again, the First Responder Fee is contingent on approval from the Fire Board. Currently, we use Whitman as our billing service as well as Fire Recovery. Both of these companies are recognized by Image Trend and are already integrated into the product.

Regarding cost, it is a bit more expensive than Firehouse. The JPA currently uses Image Trend for its electronic Patient Care Reports. With the auto-population of units and times from CAD and personnel from Telestaff this greatly reduces the time spent entering in reports for the company officers. With the handling of the auto exportation of both Fire Recovery and the First Responder Fee the offset, even on a low estimation, is much greater than the cost of Image Trend. Thanks also to Captain Shepard for taking the initial lead on reaching out to Image Trend and getting the ball rolling on this.

ImageTrend Initial cost - \$44,817.00

ImageTrend Annual Fee - \$38,407.00

Peraton CAD Integration - \$9,000.00

Peraton Maintenance after 1st year \$5,000.00 +3% year over year increase.

If you have any questions, please feel free to reach out.

Jason Lindberg

Captain 19A



Peraton
Citizen Services BU
Public Safety & Products OU
First Responder Solutions
7575 Colshire Drive
McLean, Virginia 22102

May 17, 2022

CR: #160995

Connor B. DiNapoli
Communications Operator
Altaris CAD/GIS Administrator
CAL FIRE – AEU
2840 Mount Danaher Road
Camino, CA 95709

Sent via email to Connor.DiNapoli@fire.ca.gov

RE: Quotation for ImageTrend Interface to El Dorado County Fire District (CAECF)

Dear Mr. DiNapoli,

Peraton is pleased to provide this quote for the Firm-Fixed Price (FFP) for ImageTrend ePCR interface on the Peraton Altaris™ CAD system at CAL FIRE Amador-El Dorado Unit (AEU) Emergency Command Center to send data to El Dorado County Fire District (CAECF).

Scope of Work

Peraton will provide the following:

- Implement the interface as it resides in released software at the AEU CAL FIRE CAD system.
- Assist AEU in understanding the implementation and CAD data setup requirements
- Provide bug fixes as AEU's unique data exposes a new interface problem.
- The fields in the attached interface document and listed here will be pushed to Image Trend ePCR:

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This document contains Peraton Proprietary Information including trade secrets and shall not be duplicated, used, or disclosed (in whole or in part) without the express written authorization of Peraton. This document may be used by the authorized recipient solely for internal purposes.

XML Tag	Data Element	Comments
CadID	A unique identifier for each record is generated by combining the event agency, the event number and the resource id dispatched to the event.	One ePCR record is generated for every dispatched resource.
Agency Number	The CAD event agency.	These must be entered into an ImageTrend Elite table before the data will import.
IncidentNumber	The CAD event number.	
EMSResponseNumber	The CAD Site Incident Number	
PSAP	When the event is created from the E-911 interface, this is the date and time the E-911 record was received by CAD.	
DispatchNotified	The date and time the event was entered in CAD.	
UnitNotifiedByDispatch	The date and time the resource as dispatched in CAD	
UnitEnroute	The date and time the resource was marked en- route in CAD	
InitialResponderArrivedOnScene	The first date and time a resource was marked at the scene in CAD	
UnitArrivedOnScene	The date and time the resource was marked at the scene in CAD	
UnitLeftScene	The date and time the resource was marked as transporting in CAD.	
PatientArrivedAtDestination	The date and time the resource was marked as transport arrived in CAD.	
UnitBackInService	The date and time the resource was removed from the event in CAD	
UnitCanceled	The date and time the resource was removed from the event in CAD via the CX command only.	

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XML Tag	Data Element	Comments
SceneStreetAddress	The event’s location is parsed, the apartment, city code, and common name are removed. The remainder is placed in this field.	
SceneStreetAddress2	If the location parsing identified a common place name, it is placed in this field.	
SceneApartmentNumber	The apartment information from the event’s location is parsed out and placed here.	
SceneCrossStreet	The event’s low and high cross street or access point are provided in this field.	
SceneCityName	The city code information from the event’s location is parsed out and placed here.	ImageTrend requires a translation table of city codes to city names.
ZoneNumber	The Atom for the incident, when the incident has a verified address.	ImageTrend workbook indicates they want an edit table for this.
GPSLatitude	The latitude of the incident in CAD, when the incident has a verified address.	
GPSLongitude	The longitude of the incident in CAD, when the incident has a verified address.	
EMSUnitNumber	The Resource ID	
EMDPerformed	Yes / No if there is a ProQA invocation attached to the event in CAD.	
EMDCardNumber	The ProQA determinant if there is a ProQA invocation attached to the event in CAD and a determinant was reached.	

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XML Tag	Data Element	Comments
DispatchLocation	The Resource’s currently assigned response area (home or moved up response area).	
BeginningOdomReading	If an M/miles is found in the resource history chronology TRNS segment for this resource and event, it is provided.	
OnSceneOdomReading	If an M/miles is found in the resource history chronology TRNS segment for this resource and event, it is provided.	
PatientDestinationOdomReading	If an M/miles is found in the resource history chronology TAR segment for this resource and event, it is provided.	
EndingOdomReading	If an M/miles is found in the resource history chronology TCM segment for this resource and event, it is provided.	
PatientDisposition	The last disposition assigned to the incident.	ImageTrend requires a translation table.
DestinationName	If a resource history chronology TRNS segment for this resource and event exist, the location in square braces is pulled out and parsed. The common place name portion is placed in this field.	ImageTrend wants a translation table to make this name into a Destination Code.
DestinationStreetAddress	Once the common place name is removed from the transport location (see DestinationName above) the remainder of the address is placed here.	
DestinationCityName	The city code portion of the parsing that resulted in setting a DestinationName is placed here.	

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XML Tag	Data Element	Comments
	Elements below are repeated for every person logged into the resource.	
LicensureID	The Employee ID from the PER record for every person logged in to the resource. If the Employee ID field is blank, the CAD PER ID is provided.	
CrewMemberLevel	The rank from the PER record for every person logged in to the resource.	ImageTrend requires a translation table.

Also included in the interface will be the recently added AEU CAD event data (regardless of jurisdiction) transferred to ImageTrend when one of their agency resources is dispatched. The same exception for ambulances that was applied to El Dorado Hills integration will also apply to the integration with El Dorado County Fire District.

The Firm Fixed Price and Payment for this quote are as follows:

Price

Total price to implement this interface and provide the first year maintenance is \$9,000.00.

Estimated Implementation Period: July 1, 2022 to August 31, 2022

Actual implementation period will be based on receipt of customer purchase order and availability of Peraton resources.

Payments

At issuance of Purchase Order

Implementation Labor (50%) \$2,000.00

Total Due \$2,000.00

Go Live & Acceptance

Implementation Labor (50%) \$2,000.00

First Year Maintenance \$5,000.00

Total Due \$7,000.00

Estimated Year 1 Maintenance Period will be September 1, 2022 to August 31, 2023

Maintenance will begin at acceptance. Maintenance will be renewed on an annual basis and is subject to a 3% year over year increase.

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Customer may choose to pay entire amount of \$9,000.00 upfront at issuance of purchase order.
Payment shall be made by the Customer within 30 days of the receipt of an invoice from Peraton.

The Peraton standard terms and conditions apply to this quotation unless noted otherwise herein.
This quote is valid for ninety days unless extended by Peraton in writing.

We sincerely appreciate the opportunity to respond to the needs of your agency. If you need any additional information, please call me at the number below or Teresa Richardson at (813) 220-9348.

Sincerely,

Cynthia Williams

Contracts Administrator

Mobile: (865) 269-3779

Cynthia.Williams@peraton.com

[Sent Via E-Mail – Cynthia Williams](#)

CC: Teresa Richardson

Chris Valvo

Florian Kogelnik

Marin Browning



Master Software and Services Agreement

CONTRACT NUMBER: 00005361.0

BETWEEN

El Dorado County Fire Protection District
P.O. Box 807
Camino, California 95709

AND

IMAGETREND®

ImageTrend, Inc.
20855 Kensington Blvd.
Lakeville, Minnesota 55044

THIS AGREEMENT is made and entered into on the date last written below, by and between the ImageTrend, Inc., a Minnesota corporation (hereinafter "ImageTrend"), and El Dorado County Fire Protection District (hereinafter "Client"), together "the Parties."

RECITALS

WHEREAS, Client desires to have services performed by ImageTrend, or

WHEREAS, Client desires to purchase Commercial-Off-The-Shelf Software from ImageTrend, or

WHEREAS, Client desires to purchase Custom Software Development from ImageTrend, and

WHEREAS, ImageTrend possesses technical skill, knowledge, and capability in consulting and designing custom and off-the-shelf software solutions and performing technical software services and Client desires such services,

NOW, THEREFORE, THE PARTIES HEREBY AGREE AS FOLLOWS:

SECTION 1. DEFINITIONS

"Agreement" and **"This Agreement"** means this Master Software and Services Agreement, the Work Orders issued hereunder, all Attachments and Exhibits attached hereto, or any Amendments made in mutually executed hereto.

"Business Day" means a single 8 hour period occurring on a Monday, Tuesday, Wednesday, Thursday or Friday, 9:00am CST to 5:00pm CST, excluding holidays per §14(b) below. Unless specified in a Service Order, ImageTrend personnel will only perform services during Business Days.

"Business Week" means a 5 day period, beginning Monday at 9:00am CST and ending Friday at 5:00pm CST, excluding holidays per below.

"Confidential information" means the proprietary products and trade secrets, including, but not limited to, computer software, code, technical parameters, price lists, methods of pricing, customer lists, designs, software documentations, manuals, models and account tables, and any and all information maintained or developed. Information shall be considered Confidential Information if it is identified in writing as confidential or proprietary, or if disclosed verbally or visually in discussion, upon written notice specifying and describing the nature of the orally disclosed Confidential Information at that time, or within fifteen (15) days of such disclosure.

"Commercial Off The Shelf" or "COTS" means pre-designed software products which are made available for sale by ImageTrend to many customers. COTS is mutually exclusive to Custom Software or Custom IP. MOTS means Modified Off The Shelf, and is a derivative work of ImageTrend COTS Software.

"Custom IP" or "Custom Software" means software products, or other Intellectual Property, which is designed for a specific purpose, for a specific customer or CLIENT.

“Deliverable” means an intangible or tangible product, material, or service produced as a result of a Work Order, and each Deliverable is specified in the corresponding Work Order from which it is produced.

“Disclosing Party” means the party disclosing Confidential Information to the other party, see also Receiving Party.

“Effective Date” means the date upon which the last party has signed and executed this Agreement.

“Fixed Fee” means a fixed amount of compensation due in return for a fixed Deliverable.

“Governmental Entity” shall have the same meaning as “State and local government entities” as defined in the General Services Administration Acquisition Manual (GSAM) at 538.7001, as updated

“Intellectual Property” means any intellectual property or proprietary rights in any jurisdiction, whether owned or held for use under license, whether registered or unregistered, including such rights in and to: (i) trademarks, trade dress, service marks, certification marks, logos, trade names, brand names, corporate names, assumed names and business names (“Trademarks”, which term shall include the items described in clause (viii) below); (ii) patents and any and all divisions, continuations, continuations-in-part, reissues, continuing patent applications, reexaminations or extensions thereof, any counterparts claiming priority therefrom, utility models, patents of importation/confirmation, certificates of invention, certificates of registration and like statutory rights; inventions, invention disclosures, discoveries and improvements, whether patentable or not; (iii) copyrights and works of authorship; (iv) trade secrets (including those trade secrets defined in the Uniform Trade Secrets Act and under corresponding federal, state or foreign statutory or common law), business, technical and know-how information, non-public information, and confidential information and rights to limit the use or disclosure thereof by any Person; (v) mask works; (vi) moral rights, author’s rights or rights of publicity; (vii) claims, causes of action and defenses relating to the enforcement of any of the foregoing; (viii) any applications for registration of any of the foregoing, and all renewals or extensions of any of the foregoing, whether now existing or hereafter arising; and (ix) the goodwill associated with each of the foregoing. For the avoidance of doubt, “Intellectual Property Rights” includes any and all of the foregoing related to computer software, data files, Source Code, Object Code, APIs, manuals, documentation, specifications, databases or other materials or information.

“Licensed Information” means any information pertaining to the Software which is owned by IMAGETREND and is licensed to CLIENT. Licensed Information includes such information as input form, user manuals and user documentation, interface format and input/output format, and any other materials pertaining to the Software.

“Local Travel” means travel to a destination in the Twin Cities Metro area, within 30 miles of Lakeville, MN.

“Materials” and “Expenses” means but is not limited to third party software licenses, physical hardware, test devices, or other items, reasonable travel expenses (including but not limited to food, lodging, and transportation), printing, delivery of materials, or any other cost reasonably incurred arising out of this Agreement.

“Master Services Agreement” means this document excluding Work Orders issued from this document.

“Pre-Existing Materials” means code, documentation, frameworks, development accelerators, tool sets or any other materials owned by ImageTrend and not developed as part of the services performed for

Client. It may include, without limitation, Security Framework, Dashboard, ImageTrend Frameworks, Report Writer and any other tools or Intellectual Property made or used by ImageTrend unrelated to this Agreement.

“On-Site Hour” means time an hour worked by ImageTrend personnel on Client premises, or other premises of Client’s choosing that are not ImageTrend’s corporate offices.

“Statement of Work” means the technical document which outlines a mutually agreed upon specification for particular Custom Development projects and associated costs, payment terms and acceptance procedures. This document requires client acceptance and signature prior to beginning work.

“Support” means technical support for the configuration and functioning of the products, including taking and monitoring defect reports, as defined further below in the Service Level Agreement between ImageTrend and Client

“Software” means ImageTrend software provided to Client by ImageTrend, specifically software developed and/or written by ImageTrend. Software developed by a third-party which is purchased on behalf of Client is considered Third Party Material.

“Receiving Party” means the party receiving Confidential Information from the Disclosing Party

“The Agreement” means collectively this Master Services Agreement, its Exhibits, all Work Orders issued from this Master Services Agreement, and all Exhibits to Work Orders.

“Third Party Material(s)” means software or other materials owned by a party other than Client or ImageTrend

“Time and Materials Basis” means charges billable to the Client based upon each hour worked, multiplied by the hourly rate for the work, plus the cost of any Materials necessary (including but not limited to, the cost of third party software licenses, travel and accommodation expenses, or otherwise), or Materials beneficial (conditioned upon mutual assent of the parties), billed on a monthly basis in arrears.

“Work Order” means the document which outlines a mutually agreed upon set of services, products, or Deliverables and associated costs, payment terms, and acceptance procedures

SECTION 2. TERM OF AGREEMENT

The Term of this Agreement shall be 12 months from the Effective Date of this Agreement (“Initial Term”). Upon expiration of a Term, the Term shall automatically renew under the same terms and conditions for additional subsequent 12 month term (“Renewal Term”), unless terminated under the terms of this Agreement or by otherwise giving the other party no less than 30 days of written notice prior to the last day of the then-current Term.

SECTION 3. WORK ORDERS

CREATION OF WORK ORDERS. The parties may, from time to time, work together to detail the specific engagement scope, pricing, acceptance criteria, and terms of services to be performed and Deliverables to be delivered by ImageTrend. ImageTrend will set forth these details as a Work Order. If the Work Order is for the purchase of COTS Software, the Work Order shall also outline the quantity and SKU of

each product or service as applicable. Should a Work Order contain no term regarding a topic, the terms of this Master Software and Services Agreement shall hold instead.

LIMITATIONS OF WORK ORDERS. Work Orders may include requirements on the Client. Such requirements, when executed as part of a mutual agreed writing, form a material part of this Agreement and of the Work Order where the requirement is presented. Additionally, either party may set forth factual assumptions (“Assumption”) in each Work Order. Notwithstanding anything in this Agreement or the Work Order, a Work Order will be rendered void to the extent that ImageTrend is obligated to perform services which are impossible or impracticable. Further, a Work Order will be rendered voidable to the extent that ImageTrend is obligated to perform services materially different than originally set out in that Work Order due to an inaccurate Assumption. The parties will make commercially reasonable efforts to negotiate an alternative or modified Work Order in light of the inaccurate Assumption.

MODIFICATION OF WORK ORDERS. Any modification to the scope or tasks identified within the Work Order that change the work budget by an estimated 10 hours of work or more shall require a new modified written Work Order or written Change Order. ImageTrend shall not work on the new tasks in the modified Work Order until the Client has provided signed written acceptance of the new Work Order. The parties may waive this requirement on a case-by-case basis in writing. Modifications requiring less than an estimated 10 hours of work may be proposed and accepted verbally, with such modifications requiring less than 10 hours of work billed on a Time and Materials basis.

FEE MODEL. The Work Order will contain fee and payment terms. The following fee models are contemplated:

Model Name	Definition
Fixed Fee	ImageTrend shall perform the work outlined in the Work Order for a fixed flat fee, plus Expenses. The Fixed Fee is exclusive of Expenses unless the Work Order outlines the Expenses. The Fixed Fee model may include milestone payments, with such milestone payments outlined in the Work Order.
Time and Materials	ImageTrend shall perform the work outlined in the Work Order on a Time and Materials basis, at the rate(s) specified in the Work Order.

LEGAL EFFECT. Work Orders issued under this Master Services Agreement are incorporated by reference into this Master Services Agreement which collectively is called “the Agreement.” Work Orders do not override the terms of this Master Services Agreement unless specifically stated that they do so. Work Orders may contain their own Fee/Payment Schedules and Payment Terms; those terms are binding insofar as they concern the services or Deliverables contemplated by the Work Order. For Work Orders without their own fee and payment terms, the payment terms in Price Sheet and Work Order Attachment below control.

CUSTOMIZED SOFTWARE DEVELOPMENT. The parties may mutually agree to a Work Order also known as a Statement of Work for the development of new or custom software, also known as “Modified Off The Shelf” or MOTS. All normal requirements of the Work Order shall apply, but additionally the parties must work together to mutually define a Statement of Work which outlines the tasks, and their timelines, to be undertaken as part of the project. Any Customized Software or MOTS Software developed under this Agreement will be Intellectual Property owned by ImageTrend. Should Client

desire ownership of any Intellectual Property developed by ImageTrend, this must be embodied by a separate, mutually executed contract. For clarity, Client shall not and will not own any ImageTrend Intellectual Property under any circumstance under this Agreement. Client may only receive a license thereto as outlined in each Work Order.

SECTION 4. PERFORMANCE OF SERVICES

COMMENCEMENT. ImageTrend shall begin services described in the Work Order subsequent mutual signed execution the Work Order. No services shall begin before mutual signed and written final acceptance of each Work Order.

USE OF KNOW HOW. ImageTrend shall use its know-how, Intellectual Property, talent, skills, and employees to perform the services. Client shall conditionally receive a license to any and all pre-existing ImageTrend Intellectual Property and Know-How used in the creation of Deliverables and delivery of services as outlined below in §6 “Licensing and Intellectual Property” and Software Licensing Terms Attachment.

MATERIALS. Materials (including, but not limited to, third party software licenses, physical hardware, test devices, or other items and any other Material) that will be used in the development of the Software will be identified by ImageTrend to Client. ImageTrend shall acquire such Materials as the parties mutually agree should be acquired, and it shall be the Client’s responsibility to pay for those materials.

ACCEPTANCE OF SERVICES AND DELIVERABLES. ImageTrend shall deliver completed Deliverables and services to Client for acceptance. Each Work Order must detail the acceptance criteria for each Deliverable or service contained within that Work Order. If a Deliverable or services acceptance criteria is measurable objectively, it shall be complete upon satisfaction of that objective measurement without regard to either party’s satisfaction with the Deliverable. If 1) a Deliverable’s acceptance criteria is based on Client’s satisfaction with the Deliverable, or 2) no acceptance criteria is detailed, then the following default clause shall apply:

After delivery of the Deliverable or performance of the service, Client shall have no more than 15 days to: 1) accept the deliverable or service, or 2) reject the deliverable or service by providing a written rejection that reasonably sets forth the reason for the rejection and the changes required to gain Client’s acceptance, or 3) provide a written request for a 15 additional day extension to review the Deliverable or service; ImageTrend shall not unreasonably withhold approval of such 15 day extension. If Client does not provide an acceptance within the above time frame inclusive of extensions, the Deliverable or service will be deemed accepted. After delivery of the fourth revision of the service or Deliverable, the service or Deliverable shall be deemed accepted by Client.

SECTION 5. FEES, INVOICING, AND PAYMENT TERMS

PROMPT PAYMENT ACTS. IF CLIENT IS A GOVERNMENTAL ENTITY, THE FOLLOWING PARAGRAPH APPLIES: To the degree any term in this Section 5, or any payment related term in any Work Order,

conflicts with the governing prompt payment act or similar procurement act which unambiguously limits client's ability to agree or comply with any term in this section 5 or in any payment related term in any work order ("The PPA"), the term in the PPA will instead control. For clarity, unless there is an unambiguous conflict between the terms of this Section 5 or in any Work Order, the PPA shall not control and this Agreement shall still control.

FEES. Client shall owe to ImageTrend such fees as set forth in each mutually executed Work Order.

SCHEDULING NON-LOCAL TRAVEL. For air travel Client may, and is strongly advised to, schedule travel no less than 3 weeks in advance of the first on-site date by written request; ImageTrend reserves the right to approve or deny travel requests on a per-request basis. Client may also request travel by writing with 3 weeks or less advance notice; ImageTrend reserves the right to approve or deny such travel requests, and to invoice costs to Client due to scheduling changes ImageTrend must make to accommodate such a request if approved.

CANCELLATION, RESCHEDULE, OR DELAY. Client will provide to ImageTrend (10) ten business days prior written notice of Client's intent to delay, reschedule, or cancel ("Staffing Change") any service in a Work Order which requires an ImageTrend employee to perform work at a specific location or at a specific time (e.g. face-to-face meetings, on-site visits, after hours on-call status). If Client fails to provide such notice, Client shall reimburse ImageTrend for loss caused by the Staffing Change. ImageTrend shall use commercially reasonable efforts to mitigate any losses that would be incurred by a Staffing Change and due to ImageTrend by Client.

INVOICING. Unless otherwise specified in a Work Order, invoices must be paid on Net 30 terms. Any objection to an invoice must be made in writing. Client may request up to an additional 15 days to review Deliverables associated with an invoice, approval to which ImageTrend shall not unreasonably withhold. If Client does not object to an invoice, or request an extension to review Deliverables, within 15 days after receipt of the invoice then the invoice is deemed accepted and any right to object to the invoice is waived. Payment shall be made by check or by ACH transfer to ImageTrend.

REMEDIES FOR NON-PAYMENT. Should Client fail to pay per the terms of this Agreement and this Section 5, ImageTrend may 1) suspend services under all Work Orders until such payment is made in full, and/or 2) charge a late fee at the lesser of 1.5% or the maximum allowed by law, and/or 3) invoice Client for the costs of collection including reasonable attorney's fees.

TRAVEL COSTS. Should Client desire ImageTrend to send personnel to a location of Client's choosing in the continental United States, Client may pay \$1,750 per ImageTrend trainer per trip and a further \$1,400 per trainer per day spent at Client's chosen location. Travel outside of the continental US will be quoted by ImageTrend upon request. Travel may only be scheduled for a maximum of one business week of Monday through Friday per trip; however Client may book consecutive trips. Non-local travel scheduling which runs from one business week into a subsequent business week(s) (e.g. start date on Friday at 8:00am, end date Wednesday at 5:00pm, "Overlapped Weekend") will result in ImageTrend invoicing Client an additional trip for each Overlapped Weekend. ImageTrend staff will work 8 hours

each day, except on the first and last day of each trip ImageTrend may reserve up to 2 hours of the Business Day for travel time.

TIME AND MATERIALS RATE. Unless otherwise specified in a Work Order, ImageTrend's Time and Materials rate is \$225.00 per hour.

PRICE ESCALATION. ImageTrend reserves the right to escalate the prices contained herein, and any recurring fee, by no more than 5 % of the then current price for each anniversary of the Effective Date beginning on 8/31/2023. ImageTrend further reserves the right to escalate travel prices once per year upon written notice to Client. Such travel price increases will only affect future travel prices and will not change the price or amount due to ImageTrend for previously rendered travel.

SECTION 6. DATA AND INTELLECTUAL PROPERTY

CLIENT DATA. All Client data provided to ImageTrend remains at all times the property of the Client unless otherwise specified by a Work Order. ImageTrend will not to use or make available any personally identifiable information or patient health information other than for performing the services outlined in a Work Order, and for use in an aggregated manner to monitor, operate, train artificial intelligence, and conduct statistical analyses relevant to the application's proper functioning, maintenance, optimization, or improvement. ImageTrend will not in any way transfer to any third party any Confidential Information of Client.

DE-IDENTIFICATION. ImageTrend may create a de-identified data set of Client's data ("the De-identified Data Set") and ImageTrend may, in ImageTrend's discretion, transform, analyze, distribute and redistribute, create derivative works of, license, make available to 3rd party researchers, or otherwise use the De-identified Data Set except as limited by: 1) this Agreement, 2) applicable law and regulation, e.g. State and Local data privacy law and HIPAA/HITECH, 3) notwithstanding any of the prior, ImageTrend shall create the De-identified Data Set in accordance with the then current HIPAA Safe Harbor Rule at 45 CFR § 164.514(2)(i) by removing the 18 listed data elements, and any additional data element designated as 'Personal Information' by State and Local data breach law (or equivalent laws). The § 164.514(2)(i) data elements are reproduced below at Attachment A. ImageTrend shall ensure its methods for creating the De-identified Data Set comport with industry best practices and guidance such as NISTIR 8053 'De-Identification of Personal Information' (available at <http://dx.doi.org/10.6028/NIST.IR.8053>). ImageTrend shall use reasonable administrative, technical, and physical safeguards to protect and prevent unauthorized disclosure of the De-identified Data Set. ImageTrend shall not attempt to re-identify any de-identified records.

GRANT OF LICENSE TO IMAGETREND'S PRE-EXISTING IP AND OWNERSHIP OF NEW IP. All Intellectual Property Rights connected to the ImageTrend pre-existing materials such as architectural structure, modules, processes, and Know-How that may be used in Deliverables ("Pre-existing IP"), shall remain owned by ImageTrend. ImageTrend agrees to grant to Client a royalty-free, worldwide, transferable, non-exclusive, use license for these architectural structures, modules, and processes that may be used solely in conjunction with the Deliverables and services performed under Work Orders and in accordance with the license selected below at Software Licensing Terms Attachment, conditioned upon full payment of the Work Order from which the Deliverable containing Pre-Existing IP originates. This license may not be transferred, and Client may not sublicense, use, reproduce, distribute or prepare derivative works of ImageTrend's Pre-Existing IP except to the extent strictly necessary to fulfill the

purpose of a Work Order. New Deliverables utilizing the same Pre-Existing IP may require another license for that new Deliverable, in ImageTrend's discretion. New Custom Intellectual Property authored by the parties in the course of performing a Work Order shall be owned by the party that authored the Intellectual Property and in the case of derivative works, it shall be owned by the party who owns the work from which the derivative is made, or as otherwise set forth in the Work Order. In the case of ImageTrend Software products licensed per Software Licensing Terms Attachment below, or "Modified Off The Shelf Software" as defined above, ImageTrend shall own all Intellectual Property related to or arising out of any Work Order. A Work Order may specify who owns the intellectual property embodied in a Deliverable; however, absent such terms in the Work Order, the terms of this Agreement shall control. Any right not hereby granted is reserved.

SECTION 7. CONFIDENTIALITY

CONFIDENTIALITY ACKNOWLEDGEMENT. Each party hereby acknowledges and agrees that the other Party's Data, potential clients or customers, client or customer lists, business plans, pricing structures, software and database designs, and any other information a Party has marked as Confidential, constitute Confidential Information. Each party agrees to treat (and take precautions to ensure that its authorized personnel treat) Confidential Information as confidential in accordance with the confidentiality requirements and conditions set forth below. Orally transmitted information shall not be Confidential Information unless specified as such in a writing transmitted from the Disclosing party to the Receiving party within 15 days of the oral transmission, with such writing providing a reasonable description and scope of the Confidential Information transmitted.

CONFIDENTIALITY OBLIGATIONS. Each party agrees to keep confidential all confidential information disclosed to it by the other party in accordance herewith, and to protect the confidentiality thereof in the same manner it protects the confidentiality of similar information and data of its own (at all times exercising at least a reasonable degree of care in the protection of confidential information); provided, however, that the provisions of this §7 shall not apply to information which: (i) is in the public domain; (ii) has been acquired by a Party by means other than the disclosure of the information by the Disclosing Party; (iii) is duly obtained by a Party directly or indirectly from a third party who has independently developed the information and is entitled to disclose the information to the Party, and such disclosure does not directly or indirectly violate the confidentiality obligation of such third party; or (iv) becomes known publicly, without fault on the part of a Party, subsequent to the receipt of the information by Party.

SURVIVAL. This §7 shall survive the termination of this Agreement or of any license granted under this Agreement.

SECTION 8. WARRANTIES

NO CONFLICTS OF INTEREST. ImageTrend does not have any express or implied obligation to a third party which in any way conflicts with any of ImageTrend's obligations under this Agreement.

SERVICES. All services and will be provided in a professional and workmanlike manner in accordance with applicable industry standards and will comply with all applicable laws. All Deliverables will substantially conform to the agreed-upon specifications set forth in the applicable Work Order or as otherwise set forth in this Agreement.

EXCEPT AS SPECIFICALLY SET FORTH IN THIS AGREEMENT ABOVE, THE SERVICES IMAGETREND PROVIDES TO CLIENT ARE PROVIDED WITHOUT ADDITIONAL WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ANY ORAL OR WRITTEN REPRESENTATIONS, PROPOSALS, OR STATEMENTS MADE PRIOR TO THIS AGREEMENT. IMAGETREND HEREBY EXPRESSLY DISCLAIM, AND CLIENT HEREBY WAIVES, ANY REPRESENTATION OR WARRANTY OF ANY KIND WITH RESPECT TO THE SERVICES, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT AND FITNESS FOR A PARTICULAR PURPOSE. THE REMEDIES PROVIDED IN THIS AGREEMENT ARE CLIENT'S SOLE AND EXCLUSIVE REMEDIES.

SECTION 9. LIMITATION OF LIABILITY

EACH PARTY SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE TO THE OTHER PARTY FOR CONSEQUENTIAL, INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, OR EXEMPLARY DAMAGES OR LOSSES ARISING OUT OF OR RELATED TO THIS AGREEMENT, EVEN IF THAT PARTY IS ADVISED OF THE LIKELIHOOD OF SUCH DAMAGES OCCURRING. EACH PARTY'S CUMULATIVE LIABILITY ARISING OUT OF OR IN ANY MANNER RELATED TO THIS SHALL BE LIMITED TO THE AMOUNT OF THE FEES DUE UNDER THIS AGREEMENT.

SECTION 10. DISPUTE RESOLUTION

DUTY TO NEGOTIATE IN GOOD FAITH PRIOR TO FORMAL DISPUTES. IF CLIENT IS A GOVERNMENTAL ENTITY, THE FOLLOWING 2 PARAGRAPHS APPLY:

The parties shall attempt in good faith to resolve any dispute arising out of or relating to this agreement promptly by negotiation between executives who have authority to settle the controversy and who are at a higher level of management than the persons with direct responsibility for administration of this agreement. Any party may give the other party written notice of any dispute not resolved in the normal course of business. Within 15 days after delivery of the notice, the receiving party shall submit to the other a written response. The notice and response shall include with reasonable particularity (a) a statement of each party's position and a summary of arguments supporting that position, and (b) the name and title of the executive who will represent that party and of any other person who will accompany the executive. Within 30 days after delivery of the notice, the executives of both parties shall meet at a mutually acceptable time and place, or by teleconference.

All offers, promises, conduct and statements, whether oral or written, made in the course of the negotiation by any of the parties, their agents, employees, experts and attorneys are confidential, privileged and inadmissible for any purpose, including impeachment, in arbitration or other proceeding involving the parties, provided that evidence that is otherwise admissible or discoverable shall not be rendered inadmissible or non-discoverable as a result of its use in the negotiation.

ARBITRATION. If Client is NOT a Governmental Entity the following paragraph applies:

Any dispute between ImageTrend and Client under this Agreement shall be resolved by arbitration by an arbitrator selected under the rules of the American Arbitration Association in the State of the defending party and the arbitration shall be conducted in that same location under the rules of said Association. If an arbitrator cannot be agreed upon by the parties, ImageTrend and Client shall each choose an arbitrator, and those two chosen arbitrators shall choose a third arbitrator, that third arbitrator shall preside over any dispute. ImageTrend and Client shall each be entitled to present evidence and argument to the arbitrator. The arbitrator shall have the right only to interpret and apply the provisions

of this Agreement and may not change any of its provisions. The arbitrator shall permit reasonable pre-hearing discovery of facts, to the extent necessary to establish a claim or a defense to a claim, subject to supervision by the arbitrator. The arbitrator shall endeavor to keep costs as low as possible while still allowing for the just and fair disposition of the dispute. The determination of the arbitrator shall be conclusive, final and binding upon the parties and judgment upon the same may be entered in any court having jurisdiction thereof. The arbitrator shall give written notice to the parties stating his determination, and shall furnish to each party a signed copy of such determination. ImageTrend and Client shall equally share the cost of the arbitrator(s) fees. The arbitrator may award reasonable costs and expenses, including reasonable attorney fees, to the prevailing party.

SECTION 11. NON-EXCLUSIVITY

This Agreement does not establish any exclusivity of service, contract, customer relationship, or otherwise between the parties.

SECTION 12. AMENDMENTS

This Agreement may only be modified by a mutually executed writing including but not limited to Work Orders, signed by a person having authority to sign.

SECTION 13. TERMINATION

Either Party may terminate this Agreement upon giving the other Party thirty days (30) days' prior written notice to the other Party in addition to any other remedy or right contained in this Agreement. This right of termination is additive to other rights of termination identified above in this Agreement and does not preclude the exercise of those other rights.

SECTION 14. INDEMNIFICATION

IMAGETREND INDEMNITY. ImageTrend shall defend and indemnify Client from and against third party claims, actions, suits, demands, damages, obligations, losses, settlements, judgments, costs, and expenses ("Claims"), which arise out of any negligent act or omission, or willful misconduct of ImageTrend. Client shall promptly notify ImageTrend for any actual or prospective Claim for which indemnification is sought. In the event that any third-party Claim is made and Client invokes this clause, ImageTrend shall have the right and option to undertake and control such defense of such action with counsel of ImageTrend's choice with control to settle any such Claim. ImageTrend shall have no obligation to defend or indemnify Client from Claims arising out of Client's negligent or intentional wrongful acts or omissions. Because ImageTrend must provide its own insurers with notice of a claim within 60 days of actual knowledge of a Claim, Client accordingly must provide ImageTrend written notice no more than 60 days after Client has actual knowledge of a Claim else ImageTrend shall have no obligation to indemnify Client.

CLIENT INDEMNITY. IF CLIENT IS A GOVERNMENTAL ENTITY THE FOLLOWING PARAGRAPH DOES NOT APPLY. Client shall defend and indemnify ImageTrend from and against third party claims, actions, suits, demands, damages, obligations, losses, settlements, judgments, costs, and expenses ("Claims"), which arise out of any negligent act or omission, or willful misconduct of Client. ImageTrend shall promptly notify Client for any actual or prospective Claim for which indemnification is sought. In the event that any third-party Claim is made and Client invokes this clause, Client shall have the right and option to undertake and control such defense of such action with counsel of Client's choice with control to settle

any such Claim. Client shall have no obligation to defend or indemnify ImageTrend from Claims arising out of Client's negligent or intentional wrongful acts or omissions. ImageTrend accordingly must provide Client written notice no more than 60 days after ImageTrend has actual knowledge of a Claim else Client shall have no obligation to indemnify Client.

SECTION 15. GENERAL TERMS

- a. **INSURANCE REQUIREMENTS.** ImageTrend will provide to Client a Certificate of Insurance upon request.
- b. **ELECTRONIC SIGNATURES.** The parties agree to conduct transactions primarily via electronic means. Accordingly, each party accepts electronic signatures and Deliverables as equivalent to physical versions of the same.
- c. **BUSINESS DAYS AND HOLIDAYS.** The parties agree a business day is 8 hours long, and excludes Saturdays, Sundays, and days reasonably considered a holiday by either party per each party's written policies. Unless otherwise specified in a Work Order, ImageTrend shall perform services only during business days, from 9:00am CST to 5:00pm CST.
- d. **COUNTERPARTS.** This Agreement may be executed in counterpart originals, duly signed by both parties, each of which will be deemed an original but all of which, together, will constitute one and the same Agreement. Any terms not present in all counterpart copies are severed and void. Electronic counterparts are equally as valid as original counterparts.
- e. **FORCE MAJEURE.** Neither party will be liable for delays nor for non-performance due to an unforeseeable event, external to this Agreement and the parties, where the occurrence of the event beyond the non-performing or delayed party's reasonable control ("Force Majeure Events.") This clause shall not apply to costs due to ImageTrend to reimburse cancellation, reschedule, or modification of travel arrangements per §5 above. Force Majeure Events may include, but are not limited to: war, terrorism or threats of terrorism, civil disorder, labor strikes, fire, disease, medical epidemics or outbreaks, events which curtail necessary transportation facilities (e.g. airports), or other unforeseeable events where the occurrence of the event is beyond the non-performing or delayed party's control.
- f. **REASONABLE COOPERATION.** Client will reasonably cooperate with ImageTrend to the extent reasonably necessary to enable ImageTrend to perform the Services contemplated in each Work Order. Accordingly, Client will provide access, information or other materials in a fashion timely to the schedule of each Work Order. ImageTrend shall have no liability to Client for delays arising out the actions or non-actions of Client.
- g. **NON ASSIGNABILITY.** A party shall not assign this Agreement or its rights hereunder without the prior written consent of the other party.
- h. **JURISDICTION AND VENUE.** The parties agree that the law governing this Agreement shall be that of the State of Minnesota without regard to its conflict of laws principles. **IF CLIENT IS A**

GOVERNMENTAL ENTITY the law governing this Agreement shall be that of the Client's jurisdiction without regard to its conflict of laws principles.

- i. **ENTIRE AGREEMENT.** This Agreement constitutes the entire Agreement between the parties, with respect to this subject matter, including, but not limited to the services, goods, products, and Software provided by ImageTrend for Client and the compensation provided by Client for said provision of such services therefore, and supersedes all previous proposals, both oral and written, negotiations, representations, writings and all other communications between the parties. This Agreement may not be released, discharged, or modified except by an instrument in writing signed by the parties.
- j. **SEVERABILITY.** If any provision of this Agreement is determined by a court of competent jurisdiction to be invalid or unenforceable, such determination shall not affect the validity or enforceability of any other part or provision of this Agreement.
- k. **WAIVER.** No waiver by either party of any of any provision hereof shall constitute a waiver of any other term of this Agreement nor shall it preclude either party from enforcing its rights.
- l. **NONAPPROPRIATION. IF CLIENT IS A GOVERNMENTAL ENTITY THE FOLLOWING PARAGRAPH APPLIES.** The continuation of this Agreement is contingent upon the appropriation of funds by the legislature or other sources as applicable to fulfill the requirements of the Agreement. If the insufficient monies are appropriated to provide for the continuation of the Contract, or if such appropriation is reduced by the veto of the Governor or by any means provided in the applicable appropriation laws or regulations for any lawful purpose, and the effect of such reduction is to provide insufficient monies for the continuation of this Agreement or any Work Order hereto, the Agreement or applicable Work Order(s) shall terminate on the date of the beginning of the first fiscal year for which funds have not been appropriated. ImageTrend shall be entitled to payment for deliverables in progress, to the extent work has been performed pursuant to this Agreement or any Work Order hereto; obligations that have been incurred that extend beyond the date of termination; and reasonable contract close-out costs.
- m. **ATTORNEYS' FEES.** In any action between the parties to enforce any of the terms of this Agreement, the prevailing party shall be entitled to recover reasonable expenses, including reasonable attorneys' fees.
- n. **INDEPENDENT CONTRACTORS.** It is the express intention of Client and ImageTrend that ImageTrend and its employees and agents will perform the services hereunder as independent contractors to Client. Nothing in this Agreement shall in any way be construed to constitute ImageTrend or its employees or agents as an agent, employee or representative of Client. Without limiting the generality of the foregoing, ImageTrend is not authorized to bind Client to any liability or obligation or to represent ImageTrend has any such authority. Client and ImageTrend agree that neither ImageTrend employees nor its agents will receive Client - sponsored benefits from Client.

- o. **NOTICES.** Any notice required to be given by either party to the other shall be deemed given if in writing on the date actually delivered (including electronic methods such as e-mail), or if deposited in the United States mail in registered or certified form with return receipt requested, postage prepaid, on the postmarked date and addressed to the notified party at the address set forth below, or to such other address as a party may designate from time to time by means of notice given hereunder to the other party.

If to Client:

El Dorado County Fire Protection District
Attn: Lucas Shepard
PO Box 807
Camino, California 95709

If to ImageTrend:

ImageTrend, Inc.
Attn: Mike McBrady
20855 Kensington Boulevard
Lakeville, MN 55044

IN WITNESS WHEREOF: the undersigned parties, each having authority to bind their respective organizations, hereby agree

<u>Client</u>	<u>ImageTrend</u>
<u>Signature:</u> _____	<u>Signature:</u> _____
<u>Print Name:</u> _____	<u>Print Name:</u> _____
<u>Title:</u> _____	<u>Title:</u> _____
<u>Date:</u> _____	<u>Date:</u> _____

SOFTWARE LICENSING TERMS ATTACHMENT

To the degree any Work Order involves licensing ImageTrend Software, the following terms shall apply:

“ImageTrend Elite Data Marts” means the relational database(s) that contain an enhanced and simplified reporting-ready format of the transactional data collected within ImageTrend Elite. The Elite Data Marts are available for use with the ImageTrend Elite Reporting Tools.

“ImageTrend Elite Reporting Tools” means the Transactional Report Writer, Visual Informatics, Analytical Chart Reporting Tool and Analytical Tabular Reporting Tool in the Software that are based on a set of Elite Data Marts.

“Incident(s)” means an instance where the Client sends a vehicle or emergency responder to a situation requiring emergency response, as measured by the number of incident reports within ImageTrend Software systems.

“Licensed Information” means other Deliverables provided to Client by ImageTrend relating to the operation or design of the Software, or other Deliverables provided to Client by ImageTrend which are common to ImageTrend (e.g. such Deliverables are not unique to Client). A copy of the software specification Licensed Information is available within the Software labeled as “ImageTrend University.”

“The Software” means the sum of all software licenses granted by this Agreement or Work Order hereto as provided in Section 1 below.

1. GRANT OF LICENSE TO SOFTWARE.

Each Work Order for the sale of Software Licenses shall outline which of the below licenses are being granted by the Work Order. The license selection will be evidenced by the title of each SKU in the Work Order, e.g. “Elite EMS SaaS” shall be licensed under the Software as a Service License below. If the license is not apparent by the name of the SKU, then the license shall default to Software as a Service. ImageTrend may discontinue or replace a license in this table by providing Client reasonable written notice of the change. Replacing this table shall not have the effect of revoking previously agreed licenses, rather, ImageTrend’s right to replace this table shall apply to only future Work Orders.

Name of License	Terms of License
Software as a Service License (SaaS) or Integration as a Service (IaaS) (“SaaS”)	ImageTrend hereby grants Client a non-exclusive, non-transferable license to use the ImageTrend Software product(s) listed in the Work Order for such time as listed in said Work Order. During the term of the Work Order, the Client shall have access to the Software, which will be installed on servers at the ImageTrend hosting facility and subject to the Service Level Agreement attached. All copies of the Software and/or Licensed Information in any form provided by ImageTrend to Client hereunder are the sole property of ImageTrend and/or its suppliers, and that Client shall not have any right, title, or interest to any such Software

and/or Licensed Information or copies thereof except as provided in this Agreement.

2. PROTECTION OF SOFTWARE AND LICENSED INFORMATION

Client agrees to respect and not to, nor permit any third-party to, remove, obliterate, or cancel from view any copyright, trademark, confidentiality or other proprietary notice, mark, or legend appearing on any of the Software or Licensed Information, and to reproduce and include the same on each authorized copy of the Software and Licensed Information.

Client shall not nor shall Client permit any third-party under Client's control to, copy, reverse engineer, or duplicate the Software or any part thereof except for the purposes of system backup, testing, maintenance, or recovery. Client may duplicate the Licensed Information only for internal training, provided that all the names, trademark rights, product names, copyright statement, and other proprietary right statements of ImageTrend are reserved. ImageTrend reserves all rights which are not expressly granted to Client in this Agreement.

Client shall not, nor shall Client permit any third-party to, modify, reverse engineer, disassemble, or decompile the Software, or any portion thereof, and shall not use the software or portion thereof for purposes other than as intended and provided for in this Agreement.

3. IMAGETREND ELITE DATA MARTS NON-EXCLUSIVE USE LICENSE.

In accordance with the terms and conditions hereof, ImageTrend hereby grants the use of the ImageTrend Elite Data Marts only via ImageTrend Elite Reporting Tools, unless an "Elite Data Mart License" is included and detailed in a Work Order. Absent that license, this Agreement does not give the Customer the rights to access and query the ImageTrend Elite Data Marts directly using SQL query tools, reporting tools, ETL tools, or any other tools or mechanisms. Direct access to ImageTrend Elite Data Marts is only available via the aforementioned separately-priced product and service offering from ImageTrend.

4. INSTALLATION, INTRODUCTORY TRAINING AND DEBUGGING.

IMPLEMENTATION. ImageTrend shall provide Client with start-up services such as the installation and introductory training relating to the Software, and, if necessary, initial debugging services known as "Implementation". During Implementation, Client must make available sufficient time and resources as is necessary to accomplish the milestones and tasks per the party's project plans (as applicable), typically between 4 and 15 hours a week. Depending on Client's objectives, Client may need to allocate more time or resources to achieve Client's desired timelines.

TRAIN THE TRAINER. ImageTrend may provide "Train-the-trainer" training for administrators as detailed in each Work Order. Additionally, online training videos and user guides in electronic format will be made available via ImageTrend University.

INSTRUCTIONS. ImageTrend will provide installation instructions and assistance for installation of the Software on the Servers appropriate to the License selection in the Work Order per the table above at (e.g. Client Hosted on premise license) as detailed in Service Level Attachment, below.

SOFTWARE SUPPORT. ImageTrend shall provide Software Support as detailed in the Service Level Attachment, below.

TRAINING USAGE AND EXPIRATION. The training line items and quantities as detailed in price table attached must be delivered within 2 years of the Effective Date. It shall be Client's responsibility to request the training session(s). Training not used within the 2 year cut-off shall expire and no refund or credit will be payable to Client.

5. SOFTWARE WARRANTIES.

PERFORMANCE WARRANTY. ImageTrend warrants that the Software will conform to the specifications as set forth in the Licensed Information. However, this warranty shall be revoked in the event that any person other than ImageTrend and its agents make any unauthorized modification or change to the Software in any manner outside of the configuration available within the Software's built-in functionality. This warranty does not apply to data extracted from the system.

OWNERSHIP WARRANTY. ImageTrend represents that it is the owner of the entire right, title, and interests in and to the Software, and that it has the sole right to grant licenses thereunder, and that it has not knowingly granted licenses thereunder to any other entity that would restrict rights granted hereunder to Client.

LIMITATIONS ON WARRANTY. All of ImageTrend's obligations under this Section shall be contingent on Client's use of the Software in accordance with this Agreement and in accordance with ImageTrend's instructions as provided by ImageTrend in the Licensed Information, and as such instructions may be amended, supplemented, or modified by ImageTrend from time to time. ImageTrend shall have no warranty obligations with respect to usage which does not conform with ImageTrend's instructions as provided by ImageTrend in the Licensed Information. ImageTrend shall have no warranty obligations with respect to any failures of the Software which are the result of accident, abuse, misapplication, extreme power surge or extreme electromagnetic field of a Client device. In addition to any other limitation on warranty or liability; Client's sole remedy for breach of warranty related to or arising out of the Software, or a defect with the Software, shall be at Client's option 1) repair of the Software or defect, 2) termination of this Agreement for convenience as outlined elsewhere in this Agreement.

THE EXPRESS WARRANTIES PROVIDED HEREIN ARE THE ONLY WARRANTIES MADE BY ImageTrend WITH RESPECT TO THE SOFTWARE AND SUPERSEDE ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTIES OF MERCHANTABILITY AND WARRANTIES FOR ANY SPECIAL PURPOSE.

6. MAINTENANCE.

ImageTrend shall provide scheduled updates and new releases for the Software, as well as defect correction as needed per the Service Level Agreement, attached for so long as Client has contracted for support (as indicated by a recurring fee containing the product name and word 'Support'). Specific out-of-scope system enhancement requests are excluded from support. Should Client desire specific source-code level modifications to the system, Client may submit a request to ImageTrend's UserVoice page at <https://ImageTrend.uservoice.com/>.

7. RETURN OF DATA.

Upon termination of this Agreement for any reason, Client may request ImageTrend provide to Client a copy of Client’s data. ImageTrend will produce this data by first using relevant export functionality provided by the application, e.g. for ImageTrend Elite the data would be produced as a NEMESIS Version 3 XML file(s), or by other native data export format should the application provide no export functionality. ImageTrend may redact or remove ImageTrend trade secret and confidential information, such as database schema design details, or data which is used solely in an operational or administrative fashion (e.g. data which was never entered by Client end-users). For clarity, ImageTrend may not redact or remove data that Client or Client’s end-users entered. ImageTrend will provide this exported data to Client via secure electronic transfer, such as SFTP/FTPS. ImageTrend shall have 90 days from Client’s request to produce the native data export for Client. Should Client desire the data to come in any alternative format, or be in any way different than as described in this section, Client must request those services from ImageTrend separately on a Time and Materials basis under its own time frame. ImageTrend will make efforts to accommodate Client’s request, but ImageTrend is under no obligation to do so.

8. IMAGETREND ELITE AUTHORIZED USERS AND SCOPE OF USAGE

This Grant of License is strictly conditioned on the Software being used by only Authorized Users. ImageTrend may audit Client’s Software, users, and usage to ensure compliance with the scope of usage detailed by this Agreement, in ImageTrend’s discretion. Non-compliance with the scope of usage shall be considered a material breach.

If this Agreement is for the licensing of ImageTrend Elite EMS, the following scope of usage and Authorized User definitions apply.

Organization Type	Organization Definition	Authorized User Definition
Private Agency	Client responds to emergency medical incidents for-profit or not-for-profit and the Client <u>is not</u> a Governmental Entity.	All employees & contractors of Client who respond to emergency medical incidents in the regular scope of their employment
Public Agency, County, Region, or City for its own employed EMS workers (“Public Agency”)	Client responds to emergency medical incidents and transports patients therefrom and <u>is</u> a Governmental Entity	All employees & contractors of Client who respond to emergency medical incidents in the regular scope of their employment
Hospital or Health Network	Client is a 1) hospital, 2) health network, 3) or other medical institution that provides care which does not involve responding to emergency medical incidents and transporting patients therefrom as a primary service of the organization; and Client is recognized and licensed as such by the Client’s governing State	All employees & contractors of Client who respond to emergency medical incidents in their regular scope of employment at or from the named Hospital brick-and-mortar locations. If the specific brick-and-mortar location(s) is not named in a Work Order, then it shall be interpreted as the brick-and-mortar location from which the Client primary contact, Lucas Shepard or their successor,

		conducts their job duties most frequently.
State, County, Region, City for its constituents	Client is a Governmental Entity with authority or a official mandate to improve, facilitate, organize, surveil, investigate, report, collect reports of, or otherwise govern public health matters; or another entity acting under a grant or contract of and for equivalent authority	Licensed individuals within Client’s legal or governing jurisdiction and geographic boundary, who to respond to emergency medical incidents in the regular scope of their employment, and not individuals whose primary job duty involves law enforcement.
Group Purchase (Multi-Agency)	Client(s) are a plurality of Private Agencies and/or Public Agencies	All employees & contractors of each named organization, who respond to emergency medical incidents
Financing Party (e.g. billing company) on behalf of Agency/City/County third party beneficiary	Client is an entity which does not respond to emergency medical incidents or provide for the care or transportation of patients; rather Client is an entity who procures or pays for a third party beneficiary who is a Private or Public Agency.	All employees & contractors of third party beneficiary Public or Private Agency, who respond to emergency medical incidents in the regular scope of their employment.

PRICE SHEET AND WORK ORDER ATTACHMENT

The prices below are based on the following SaaS transaction volumes, as provided by Client:
9,000 Incidents annually

One Time Fees

Description	SKU	Unit Price	Qty	Extended Amount
Elite™ Rescue Setup	ELT.003.002.003	\$3,710.00	1	\$3,710.00
Webinar Training 2hr Session	ELT.006.003.009	\$450.00	6	\$2,700.00

Total One-Time Fees: \$6,410.00

Recurring Fees

Description	SKU	Unit Price	Qty	Extended Amount
Other CAD Vendor	ELT.002.007.019	\$0.00	1	\$0.00
Elite™ Rescue - SaaS *Includes Elite™ Field	ELT.001.002.015	\$11,507.00	1	\$11,507.00
CAD Distribution	ELT.002.007.001	\$3,500.00	1	\$3,500.00
Mobile Fire Inspections - SaaS	ELT.001.002.014	\$3,200.00	1	\$3,200.00
Investigations	ELT.001.002.018	\$1,750.00	1	\$1,750.00
Permits	ELT.001.002.021	\$1,750.00	1	\$1,750.00
Continuum®	CTM.001.002.001	\$4,300.00	1	\$4,300.00
Continuum® EMS Content Package	CTM.001.002.002	\$950.00	1	\$950.00
Continuum® Fire Content Package	CTM.001.002.003	\$950.00	1	\$950.00
TeleStaff Distribution	ELT.002.011.004	\$3,500.00	1	\$3,500.00
Target Solutions Distribution	ELT.002.011.003	\$3,500.00	1	\$3,500.00
Fire Recovery NFIRS Integration	ELT.002.010.002	\$3,500.00	1	\$3,500.00
Billing Company Purchased FTP Auto Export	ELT.002.009.010	\$0.00	1	\$0.00

Total Recurring Fees: \$38,407.00

TOTAL YEAR 1: \$44,817.00

Send Invoices To:

Lucas Shepard
shepardl@eldofire.com
PO Box 807
Camino California, 95709

Payment Terms:

- “One Time Fees” are due once, as specified by the Milestone terms below.
- “Recurring Fees” are annual fees which recur each year. They are due on each anniversary of the fee, with the start date beginning upon completion as specified by the Milestone terms below. The Recurring Fees will escalate in price annually by 5% beginning on 08/31/2023 and each year thereafter.
- ImageTrend may temporarily suspend performance (e.g. cease to provide access, hosting, support) due to Client’s breach of contract provided Client shall have 30 days to cure such breach before ImageTrend may suspend performance.
- ImageTrend may charge to Client a late fee of 1.5% per month, or the highest rate allowed under the law, whichever is lower, on any overdue amounts. Client also agrees ImageTrend may charge to Client all reasonable costs and expenses of collection, including attorneys' fees where, in ImageTrend’s discretion, payments are consistently deficient or late.
- All Annual SaaS Fees are based upon anticipated transaction volumes (as provided by Client) and are subject to an annual usage audit. ImageTrend reserves the right to increase fees in accordance with increased transaction volume per the Unit Price listed in the tables above.
- ImageTrend will not be responsible for third-party fees related to this Agreement unless specifically outlined by this Agreement

Optional Items

Items in the table below are not goods or services currently contracted or provided by this Agreement, rather, they are included to allow Client to add those goods or services by first providing written notice to ImageTrend, subsequently ImageTrend will provide Client with a Work Order for the Optional item, and upon Client’s signature of that Work Order, ImageTrend will begin the work.

Product	SKU	Unit Price	Description
Onsite Training Session - 8 Hours	ELT.006.003.004	\$1,800.00	Training that is to be completed onsite at the client’s location. Training topics can range from administrator training to user education to in-depth Report Writer usage.
Travel	ELT.006.003.008	\$1,750.00	
Elite Site to Site Transfers	ELT.002.010.016	\$500.00	Elite Site to Site Transfers allows your agency to transfer EMS incidents in the field from your agency to other agencies using an Elite site that exists outside of your Elite System. The setup is based on a per agency basis.
Continuum® Geocoding	CTM.001.002.004	\$400.00	The Continuum Geocoding option generates latitude and longitude information from EMS and Fire scene location addresses. This option is available for those clients that don’t currently have

			latitude and longitude information being added to their system via either a CAD integration or the ImageTrend MARS offering. Latitude and longitude information is required if you want to view map content in Continuum's numerous content domains.
Hospital Hub™ Distribution	ELT.002.010.007	\$2,500.00	Hospital Hub Distribution allows you a hospital-centric window into EMS incidents of patients that were delivered. Users can view and print ePCR's, send outcome data, view related incidents and download any attachments of a patient that is available. Hospital Hub can connect to multiple Elite systems allowing a hospital to only need one place to be able to go even when multiple agencies are delivering to them.

MILESTONE 1

Site Available. ImageTrend software is available via the Web. This Site Available Milestone is complete when ImageTrend has provided Client: 1) at least one web URL to the ImageTrend software, and 2) a system administrator account with login credentials, and 3) Client is able to log into the ImageTrend software at that URL.

Description	Unit Price	Quantity	Extended Amount
Elite™ Rescue - SaaS *Includes Elite™ Field	\$11,507.00	1	\$11,507.00
Elite™ Rescue Setup	\$3,710.00	1	\$3,710.00
Mobile Fire Inspections - SaaS	\$3,200.00	1	\$3,200.00
Investigations	\$1,750.00	1	\$1,750.00
Permits	\$1,750.00	1	\$1,750.00
Continuum®	\$4,300.00	1	\$4,300.00
Continuum® EMS Content Package	\$950.00	1	\$950.00
Continuum® Fire Content Package	\$950.00	1	\$950.00
Milestone 1 Total			\$28,117.00

MILESTONE 2

Go Live. The parties understand that while the system can be infinitely configured and refined, that the software system must reach a level of readiness and it must "go-live" for usage by the end-users in its intended use cases. Client may desire staged roll out of different features or products for large implementations, or Client may desire to have all functions go live all at once. In the interest of defining a fair and objective measurement point, this Go Live Milestone will be complete when the Client's Software system processes, receives, transmits, generates, or otherwise interacts with the first non-test data record, excluding non-test data which is migrated on a one-time basis from another system.

Description	Unit Price	Quantity	Extended Amount
Other CAD Vendor	\$0.00	1	\$0.00
CAD Distribution	\$3,500.00	1	\$3,500.00

Webinar Training 2hr Session	\$450.00	6	\$2,700.00
TeleStaff Distribution	\$3,500.00	1	\$3,500.00
Target Solutions Distribution	\$3,500.00	1	\$3,500.00
Fire Recovery NFIRS Integration	\$3,500.00	1	\$3,500.00
Billing Company Purchased FTP Auto Export	\$0.00	1	\$0.00
		Milestone 2 Total	\$16,700.00

SERVICE LEVEL AGREEMENT ATTACHMENT

ImageTrend is committed to offering exceptional levels of service to our customers. This Service Level Agreement (“SLA”) guarantees your website or application’s availability, reliability and performance. This SLA applies to any site or application hosted on our network.

1. Customer Support

ImageTrend is committed in providing an exceptional level of customer support. ImageTrend’s servers are monitored 24 hours per day, 7 days per week, 365 days per year and our support staff is available via phone (888.469.7789) and email (www.imagetrend.com/support) as posted on the company’s website. ImageTrend works to promptly resolve all issues reported by customers, and will acknowledge the disposition and potential resolution according to the chart below:

Severity Level	Example	Acknowledgement of Error Notice	Response Goal
High/Site Down	<ul style="list-style-type: none"> - Complete shutdown or partial shutdown of one or more Software functions - Access to one or more Software functions not available - Major subset of Software application impacted that is necessary for usage of the software 	Within one (1) hour of initial notification during business hours or via support.imagetrend.com	Six (6) hours
Medium	<ul style="list-style-type: none"> - Minor subsystem failure -Data entry or access impaired on a limited basis. 	Within four (4) hours of initial notification	24 Business hours
Low	<ul style="list-style-type: none"> - User error (i.e. training) or forgotten passwords - Issue can or must be delegated to local Client contact as a first level of response for resolution 	Same day or next business day of initial notification	As appropriate depending on nature of issue and party responsible for resolution

2. Data Ownership

All customer data collected and maintained by ImageTrend shall at all times remain the property of the customer.

3. Data Protection

ImageTrend takes data privacy and cybersecurity very seriously. ImageTrend utilizes compliant and industry recognized best practices to ensure data security, and does not use or make available any personally identifiable information to third parties without customer consent or as required by law. ImageTrend acknowledges that its handling of information on behalf of customers may be subject to federal, state or local laws, rules, regulation and restrictions regarding the privacy of consumer information. ImageTrend agrees to comply with all of such laws, rules, regulations and restrictions at its sole cost and expense.

4. Suspension of Service

ImageTrend reserves the right to suspend and limit network resources to customers failing to pay the monthly fee in advance at its own discretion. In the event of service suspension, full service delivery will be restored within 48 hours from the date and time that payment is received.

5. Availability

ImageTrend is fully committed to providing quality service to all customers. To support this commitment, ImageTrend offers the following commitments related to application server Availability:

Availability Objective: ImageTrend will provide 99.5% Availability (as defined below) for the ImageTrend network services within ImageTrend's Immediate Control. For purposes, hereof, "Availability" or "Available" means the ImageTrend Services are available for access and use through the Internet.

"Immediate Control" includes ImageTrend's network services within the ImageTrend data center which extends to, includes and terminates at the Internet Service Provider ("ISP") circuit termination point on the router in ImageTrend's data center (*i.e.*, public Internet connectivity).

Specifically excluded from the definition of "Immediate Control" are the following:

- a. Equipment, data, materials, software, hardware, services and/or facilities provided by or on behalf of Client or a third-party entity (or any of their vendors or service providers) and Client's or a third party entity's network services or end-user hardware.
- b. Acts or omissions of Client, their employees, contractors, agents or representatives, third party vendors or service providers or anyone gaining access to the ImageTrend Services at the request of Client.
- c. Issues arising from bugs, defects, or other problems in the software, firmware, or hardware of third parties.
- d. Delays or failures due to circumstances beyond ImageTrend's reasonable control that could not be avoided by its exercise of due care.
- e. Any outage, network unavailability or downtime outside the ImageTrend data center.

Availability Calculation: Availability is based on a monthly calculation. The calculation will be as follows: $((a - b) / a) \times 100$, where "a" is the total number of hours in a given calendar month, excluding Scheduled Maintenance (as defined below), and "b" is the total number of hours that service is not Available in a given month.

Offline Capability: The Software may have offline capability which provides redundancy when network or server back-end capability is not available. Periods of time when the Software's primary functions continue to function offline shall be excluded from the unavailability calculation "b" above.

Scheduled Maintenance: ImageTrend conducts scheduled maintenance, as necessary, every last Wednesday of the month. ImageTrend will perform scheduled maintenance within that maintenance window between the hours of 9:00 p.m. CST to 11:00 p.m. CST. ImageTrend may change the regularly scheduled maintenance window from time to time at ImageTrend's discretion upon reasonable notice to Client.

Service Disruption: Upon customer's written notice to ImageTrend, if Availability for the month is below the guaranteed level, ImageTrend will issue a credit to customer in accordance with the schedule below:

Availability: 99.0% - 99.5% = 5% of monthly hosting fee credited
95.0% - 98.99% = 10% of monthly hosting fee credited
90.0% - 94.99% = 15% of monthly hosting fee credited
89.99% or below = 2.5% for every 1% of lost Availability (in no event exceeding 50% of monthly hosting fees)

ImageTrend maintains precise and objective Availability metrics, which shall be determinative when calculating any customer requested credit. ImageTrend maintained Availability metrics shall only be requested in good faith to address material customer concerns. To receive a credit, customers must specifically request it during the month following the month for which the credit is requested. Credits shall not be issued if a customer account is past due, suspended or pending suspension.

6. General

ImageTrend reserves the right to change or modify this SLA and the related services being provided to benefit its customers, including changes to hosting environments and infrastructure, provided that any such improvements shall adhere to the regulatory guidelines and best practices referenced herein.

BUSINESS ASSOCIATE AGREEMENT ATTACHMENT

This Business Associate Agreement (“Agreement”) dated 08/31/2022 (the “Effective Date”), is entered into by and between **El Dorado County Fire Protection District** located at PO Box 807, Camino, California 95709 (the “Covered Entity”) and ImageTrend, Inc. a Minnesota corporation (the “Business Associate”).

WHEREAS, Covered Entity (also referred to as “Client”) and Business Associate have entered into, or are entering into, or may subsequently enter into, agreements or other documented arrangements (collectively, the “Business Arrangements”) pursuant to which Business Associate may provide products and/or services for Covered Entity that require Business Associate to access, create and use health information that is protected by state and/or federal law; and

WHEREAS, pursuant to the Administrative Simplification provisions of the Health Insurance Portability and Accountability Act of 1996 (“HIPAA”), the U.S. Department of Health & Human Services (“HHS”) promulgated the Standards for Privacy of Individually Identifiable Health Information (the “Privacy Standards”), at 45 C.F.R. Parts 160 and 164, requiring certain individuals and entities subject to the Privacy Standards (each a “Covered Entity”, or collectively, “Covered Entities”) to protect the privacy of certain individually identifiable health information (“Protected Health Information”, or “PHI”); and

WHEREAS, pursuant to HIPAA, HHS has issued the Security Standards (the “Security Standards”), at 45 C.F.R. Parts 160, 162 and 164, for the protection of electronic protected health information (“E PHI”); and

WHEREAS, in order to protect the privacy and security of PHI, including E PHI, created or maintained by or on behalf of the Covered Entity, the Privacy Standards and Security Standards require a Covered Entity to enter into a “business associate agreement” with certain individuals and entities providing services for or on behalf of the Covered Entity if such services require the use or disclosure of PHI or E PHI; and

WHEREAS, on February 17, 2009, the federal Health Information Technology for Economic and Clinical Health Act was signed into law (the “HITECH Act”), and the HITECH Act imposes certain privacy and security obligations on Covered Entities in addition to the obligations created by the Privacy Standards and Security Standards; and

WHEREAS, the HITECH Act revises many of the requirements of the Privacy Standards and Security Standards concerning the confidentiality of PHI and E PHI, including extending certain HIPAA and HITECH Act requirements directly to business associates; and

WHEREAS, Business Associate and Covered Entity desire to enter into this Business Associate Agreement;

NOW THEREFORE, in consideration of the mutual promises set forth in this Agreement and the Business Arrangements, and other good and valuable consideration, the sufficiency and receipt of which are hereby severally acknowledged, the parties agree as follows:

1. **Business Associate Obligations.** Business Associate may receive from Covered Entity, or create or receive on behalf of Covered Entity, health information that is protected under applicable state and/or federal law, including without limitation, PHI and E PHI. All capitalized terms not

otherwise defined in this Agreement shall have the meanings set forth in the Privacy Standards, Security Standards or the HITECH Act, as applicable (collectively referred to hereinafter as the “Confidentiality Requirements”). All references to PHI herein shall be construed to include EPHI. Business Associate agrees not to use or disclose (or permit the use or disclosure of) PHI in a manner that would violate the Confidentiality Requirements if the PHI were used or disclosed by Covered Entity in the same manner.

2. **Use of PHI.** Except as otherwise required by law, Business Associate shall use PHI in compliance with 45 C.F.R. § 164.504(e). Furthermore, Business Associate shall use PHI (i) solely for Covered Entity’s benefit and only for the purpose of performing services for Covered Entity as such services are defined in Business Arrangements, and (ii) as necessary for the proper management and administration of the Business Associate or to carry out its legal responsibilities, provided that such uses are permitted under federal and state law. Covered Entity shall retain all rights in the PHI not granted herein.

3. **Disclosure of PHI.** Subject to any limitations in this Agreement, Business Associate may disclose PHI to any third party persons or entities as necessary to perform its obligations under the Business Arrangement and as permitted or required by applicable federal or state law. Further, Business Associate may disclose PHI for the proper management and administration of the Business Associate, provided that (i) such disclosures are required by law, or (ii) Business Associate: (a) obtains reasonable assurances from any third party to whom the information is disclosed that it will be held confidential and further used and disclosed only as required by law or for the purpose for which it was disclosed to the third party; (b) requires the third party to agree to immediately notify Business Associate of any instances of which it is aware that PHI is being used or disclosed for a purpose that is not otherwise provided for in this Agreement or for a purpose not expressly permitted by the Confidentiality Requirements. Additionally, Business Associate shall ensure that all disclosures of PHI by Business Associate and the third party comply with the principle of “minimum necessary use and disclosure,” i.e., only the minimum PHI that is necessary to accomplish the intended purpose may be disclosed; provided further, Business Associate shall comply with Section 13405(b) of the HITECH Act, and any regulations or guidance issued by HHS concerning such provision, regarding the minimum necessary standard and the use and disclosure (if applicable) of Limited Data Sets. If Business Associate discloses PHI received from Covered Entity, or created or received by Business Associate on behalf of Covered Entity, to agents, including a subcontractor (collectively, “Recipients”), Business Associate shall require Recipients to agree in writing to the same restrictions and conditions that apply to the Business Associate under this Agreement. Business Associate shall report to Covered Entity any use or disclosure of PHI not permitted by this Agreement, of which it becomes aware, such report to be made within three (3) business days of the Business Associate becoming aware of such use or disclosure. In addition to Business Associate’s obligations under Section 9, Business Associate agrees to mitigate, to the extent practical and unless otherwise requested by Covered Entity in writing or as directed by or as a result of a request by Covered Entity to disclose to Recipients, any harmful effect that is known to Business Associate and is the result of a use or disclosure of PHI by Business Associate or Recipients in violation of this Agreement.

4. **Individual Rights Regarding Designated Record Sets.** If Business Associate maintains a Designated Record Set on behalf of Covered Entity, Business Associate shall (i) provide access to, and permit inspection and copying of, PHI by Covered Entity or, as directed by Covered Entity,

an individual who is the subject of the PHI under conditions and limitations required under 45 CFR §164.524, as it may be amended from time to time, and (ii) amend PHI maintained by Business Associate as requested by Covered Entity. Business Associate shall respond to any request from Covered Entity for access by an individual within five (5) days of such request and shall make any amendment requested by Covered Entity within ten (10) days of such request. Any information requested under this Section 4 shall be provided in the form or format requested, if it is readily producible in such form or format. Business Associate may charge a reasonable fee based upon the Business Associate's labor costs in responding to a request for electronic information (or a cost-based fee for the production of non-electronic media copies). Covered Entity shall determine whether a denial is appropriate or an exception applies. Business Associate shall notify Covered Entity within five (5) days of receipt of any request for access or amendment by an individual. Covered Entity shall determine whether to grant or deny any access or amendment requested by the individual. Business Associate shall have a process in place for requests for amendments and for appending such requests to the Designated Record Set, as requested by Covered Entity.

5. **Accounting of Disclosures.** Business Associate shall make available to Covered Entity in response to a request from an individual, information required for an accounting of disclosures of PHI with respect to the individual in accordance with 45 CFR §164.528, as amended by Section 13405(c) of the HITECH Act and any related regulations or guidance issued by HHS in accordance with such provision. Business Associate shall provide to Covered Entity such information necessary to provide an accounting within thirty (30) days of Covered Entity's request or such shorter time as may be required by state or federal law. Such accounting must be provided without cost to the individual or to Covered Entity if it is the first accounting requested by an individual within any twelve (12) month period. For subsequent accountings within a twelve (12) month period, Business Associate may charge a reasonable fee based upon the Business Associate's labor costs in responding to a request for electronic information (or a cost-based fee for the production of non-electronic media copies) so long as Business Associate informs the Covered Entity and the Covered Entity informs the individual in advance of the fee, and the individual is afforded an opportunity to withdraw or modify the request. Such accounting obligations shall survive termination of this Agreement and shall continue as long as Business Associate maintains PHI.
6. **Withdrawal of Authorization.** If the use or disclosure of PHI in this Agreement is based upon an individual's specific authorization for the use of his or her PHI, and (i) the individual revokes such authorization in writing, (ii) the effective date of such authorization has expired, or (iii) the consent or authorization is found to be defective in any manner that renders it invalid, Business Associate agrees, if it has notice of such revocation or invalidity, to cease the use and disclosure of any such individual's PHI except to the extent it has relied on such use or disclosure, or where an exception under the Confidentiality Requirements expressly applies.
7. **Records and Audit.** Business Associate shall make available to the U.S. Department of Health and Human Services or its agents, its internal practices, books, and records relating to the use and disclosure of PHI received from, created, or received by Business Associate on behalf of Covered Entity for the purpose of determining Covered Entity's compliance with the Confidentiality Requirements or any other health oversight agency, in a time and manner designated by the Secretary. Except to the extent prohibited by law, Business Associate agrees to notify Covered Entity immediately upon receipt by Business Associate of any and all requests

by or on behalf of any and all federal, state and local government authorities served upon Business Associate for PHI.

8. **Implementation of Security Standards; Notice of Security Incidents.** Business Associate will use appropriate safeguards to prevent the use or disclosure of PHI other than as expressly permitted under this Agreement. Business Associate will implement administrative, physical and technical safeguards that reasonably and appropriately protect the confidentiality, integrity and availability of the PHI that it creates, receives, maintains or transmits on behalf of Covered Entity. Business Associate acknowledges that the HITECH Act requires Business Associate to comply with 45 C.F.R. §§ 164.308, 164.310, 164.312, 164.314, and 164.316 as if Business Associate were a Covered Entity, and Business Associate agrees to comply with these provisions of the Security Standards and all additional security provisions of the HITECH Act. Furthermore, **to the extent feasible, Business Associate will use commercially reasonable efforts to ensure that the technology safeguards used by Business Associate to secure PHI will render such PHI unusable, unreadable and indecipherable to individuals unauthorized to acquire or otherwise have access to such PHI in accordance with HHS Guidance published at 74 Federal Register 19006 (April 17, 2009), or such later regulations or guidance promulgated by HHS or issued by the National Institute for Standards and Technology (“NIST”) concerning the protection of identifiable data such as PHI.** Business Associate acknowledges and agrees that the HIPAA Omnibus Rule finalized January 25, 2013 at 78 Fed. Reg. 5566 requires Business Associate to comply with new and modified obligations imposed by that rule under 45 C.F.R. §164.306, 45 C.F.R. § 164.308, 45 C.F.R. § 163.310, 45 C.F.R. § 164.312, 45 C.F.R. § 164.316, 45 C.F.R. § 164.502, 45 C.F.R. § 164.504. Lastly, Business Associate will promptly report to Covered Entity any successful Security Incident of which it becomes aware. At the request of Covered Entity, Business Associate shall identify: the date of the Security Incident, the scope of the Security Incident, the Business Associate’s response to the Security Incident and the identification of the party responsible for causing the Security Incident, if known. Business Associate and Covered Entity shall take reasonable measures to ensure the availability of all affirmative defenses under the HITECH Act, HIPAA, and other state and federal laws and regulations governing PHI and EPHI.

9. **Data Breach Notification and Mitigation.**

A. **HIPAA Data Breach Notification and Mitigation.** Business Associate agrees to implement reasonable systems for the discovery and prompt reporting of any “breach” of “unsecured PHI” as those terms are defined by 45 C.F.R. §164.402 (hereinafter a “HIPAA Breach”). The parties acknowledge and agree that 45 C.F.R. §164.404, as described below in this Section 9.1, governs the determination of the date of a HIPAA Breach. In the event of any conflict between this Section 9.1 and the Confidentiality Requirements, the more stringent requirements shall govern. Business Associate will, following the discovery of a HIPAA Breach, notify Covered Entity immediately and in no event later than three (3) business days after Business Associate discovers such HIPAA Breach, unless Business Associate is prevented from doing so by 45 C.F.R. §164.412 concerning law enforcement investigations. For purposes of reporting a HIPAA Breach to Covered Entity, the discovery of a HIPAA Breach shall occur as of the first day on which such HIPAA Breach is known to the Business Associate or, by exercising reasonable diligence, would have been known to the Business Associate. Business Associate will be considered to have had knowledge of a HIPAA Breach if the HIPAA Breach is known, or

by exercising reasonable diligence would have been known, to any person (other than the person committing the HIPAA Breach) who is an employee, officer or other agent of the Business Associate. No later than seven (7) business days following a HIPAA Breach, Business Associate shall provide Covered Entity with sufficient information to permit Covered Entity to comply with the HIPAA Breach notification requirements set forth at 45 C.F.R. §164.400 *et seq.* Specifically, if the following information is known to (or can be reasonably obtained by) the Business Associate, Business Associate will provide Covered Entity with: (i) contact information for individuals who were or who may have been impacted by the HIPAA Breach (e.g., first and last name, mailing address, street address, phone number, email address); (ii) a brief description of the circumstances of the HIPAA Breach, including the date of the HIPAA Breach and date of discovery; (iii) a description of the types of unsecured PHI involved in the HIPAA Breach (e.g., names, social security number, date of birth, address(es), account numbers of any type, disability codes, diagnostic and/or billing codes and similar information); (iv) a brief description of what the Business Associate has done or is doing to investigate the HIPAA Breach, mitigate harm to the individual impacted by the HIPAA Breach, and protect against future HIPAA Breaches; and (v) appoint a liaison and provide contact information for same so that the Covered Entity may ask questions or learn additional information concerning the HIPAA Breach. Following a HIPAA Breach, Business Associate will have a continuing duty to inform Covered Entity of new information learned by Business Associate regarding the HIPAA Breach, including but not limited to the information described in items (i) through (v), above.

- B. Data Breach Notification and Mitigation Under Other Laws. In addition to the requirements of Section 9.1, Business Associate agrees to implement reasonable systems for the discovery and prompt reporting of any breach of individually identifiable information (including but not limited to PHI, and referred to hereinafter as “Individually Identifiable Information”) that, if misused, disclosed, lost or stolen, Covered Entity believes would trigger an obligation under one or more State data breach notification laws (each a “State Breach”) to notify the individuals who are the subject of the information. Business Associate agrees that in the event any Individually Identifiable Information is lost, stolen, used or disclosed in violation of one or more State data breach notification laws, Business Associate shall promptly: (i) cooperate and assist Covered Entity with any investigation into any State Breach or alleged State Breach; (ii) cooperate and assist Covered Entity with any investigation into any State Breach or alleged State Breach conducted by any State Attorney General or State Consumer Affairs Department (or their respective agents); (iii) comply with Covered Entity’s determinations regarding Covered Entity’s and Business Associate’s obligations to mitigate to the extent practicable any potential harm to the individuals impacted by the State Breach; and (iv) assist with the implementation of any decision by Covered Entity or any State agency, including any State Attorney General or State Consumer Affairs Department (or their respective agents), to notify individuals impacted or potentially impacted by a State Breach.
- C. Breach Indemnification. Business Associate shall indemnify, defend and hold Covered Entity and its officers, directors, employees, agents, successors and assigns harmless, from and against all reasonable losses, claims, actions, demands, liabilities, damages, costs and expenses (including costs of judgments, settlements, court costs and

reasonable attorneys' fees actually incurred) (collectively, "Information Disclosure Claims") arising from or related to: (i) the use or disclosure of Individually Identifiable Information (including PHI) by Business Associate in violation of the terms of this Agreement or applicable law, and (ii) whether in oral, paper or electronic media, any HIPAA Breach of unsecured PHI and/or State Breach of Individually Identifiable Information by Business Associate. If Business Associate assumes the defense of an Information Disclosure Claim, Covered Entity shall have the right, at its expense and without indemnification notwithstanding the previous sentence, to participate in the defense of such Information Disclosure Claim. Business Associate shall not take any final action with respect to any Information Disclosure Claim without the prior written consent of Covered Entity. Covered Entity likewise shall not take any final action with respect to any Information Disclosure Claim without the prior written consent of Business Associate. To the extent permitted by law and except when caused by an act of Covered Entity or resulting from a disclosure to a Recipient required or directed by Covered Entity to receive the information, Business Associate shall be fully liable to Covered Entity for any acts, failures or omissions of Recipients in furnishing the services as if they were the Business Associate's own acts, failures or omissions.

- A. **If Client is a Governmental Entity the following clause does not apply:** Covered Entity shall indemnify, defend and hold Business Associate and its officers, directors, employees, agents, successors and assigns harmless, from and against all reasonable losses, claims, actions, demands, liabilities, damages, costs and expenses (including costs of judgments, settlements, court costs and reasonable attorneys' fees actually incurred) (collectively, "Information Disclosure Claims") arising from or related to: (i) the use or disclosure of Individually Identifiable Information (including PHI) by Covered Entity, its subcontractors, agents, or employees in violation of the terms of this Agreement or applicable law, and (ii) whether in oral, paper or electronic media, any HIPAA Breach of unsecured PHI and/or State Breach of Individually Identifiable Information by Covered Entity, its subcontractors, agents, or employees.
- B. Covered Entity and Business Associate shall seek to keep costs or expenses that the other may be liable for under this Section 9, including Information Disclosure Claims, to the minimum reasonably required to comply with the HITECH Act and HIPAA. Covered Entity and Business Associate shall timely raise all applicable affirmative defenses in the event a violation of this Agreement, or a use or disclosure of PHI or EPHI in violation of the terms of this Agreement or applicable law occurs.

10. Term and Termination.

- A. This Agreement shall commence on the Effective Date and shall remain in effect until terminated in accordance with the terms of this Section 10, provided, however, that termination shall not affect the respective obligations or rights of the parties arising under this Agreement prior to the effective date of termination, all of which shall continue in accordance with their terms.
- B. Covered Entity shall have the right to terminate this Agreement for any reason upon thirty (30) days written notice to Business Associate.

- C. Covered Entity, at its sole discretion, may immediately terminate this Agreement and shall have no further obligations to Business Associate if any of the following events shall have occurred and be continuing:
 - A. Business Associate fails to observe or perform any material covenant or obligation contained in this Agreement for ten (10) days after written notice thereof has been given to the Business Associate by Covered Entity; or
 - B. A violation by the Business Associate of any provision of the Confidentiality Requirements or other applicable federal or state privacy law relating to the obligations of the Business Associate under this Agreement.

 - D. Termination of this Agreement for either of the two reasons set forth in Section 10.c above shall be cause for Covered Entity to immediately terminate for cause any Business Arrangement pursuant to which Business Associate is entitled to receive PHI from Covered Entity.

 - E. Upon the termination of all Business Arrangements, either Party may terminate this Agreement by providing written notice to the other Party.

 - F. Upon termination of this Agreement for any reason, Business Associate agrees either to return to Covered Entity or to destroy all PHI received from Covered Entity or otherwise through the performance of services for Covered Entity, that is in the possession or control of Business Associate or its agents. In the case of PHI which is not feasible to “return or destroy,” Business Associate shall extend the protections of this Agreement to such PHI and limit further uses and disclosures of such PHI to those purposes that make the return or destruction infeasible, for so long as Business Associate maintains such PHI. Business Associate further agrees to comply with other applicable state or federal law, which may require a specific period of retention, redaction, or other treatment of such PHI.
11. **No Warranty.** PHI IS PROVIDED TO BUSINESS ASSOCIATE SOLELY ON AN “AS IS” BASIS. COVERED ENTITY DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY, AND FITNESS FOR A PARTICULAR PURPOSE.
12. **Ineligible Persons.** Business Associate represents and warrants to Covered Entity that Business Associate (i) is not currently excluded, debarred, or otherwise ineligible to participate in any federal health care program as defined in 42 U.S.C. Section 1320a-7b(f) (“the Federal Healthcare Programs”); (ii) has not been convicted of a criminal offense related to the provision of health care items or services and not yet been excluded, debarred, or otherwise declared ineligible to participate in the Federal Healthcare Programs, and (iii) is not under investigation or otherwise aware of any circumstances which may result in Business Associate being excluded from participation in the Federal Healthcare Programs. This shall be an ongoing representation and warranty during the term of this Agreement, and Business Associate shall immediately notify Covered Entity of any change in the status of the representations and warranty set forth in this section. Any breach of this section shall give Covered Entity the right to terminate this Agreement immediately for cause.

13. **Miscellaneous.**

- A. **Notice.** All notices, requests, demands and other communications required or permitted to be given or made under this Agreement shall be in writing, shall be effective upon receipt or attempted delivery, and shall be sent by (i) personal delivery; (ii) certified or registered United States mail, return receipt requested; or (iii) overnight delivery service with proof of delivery. Notices shall be sent to the addresses below. Neither party shall refuse delivery of any notice hereunder.

If to Covered Entity:

ATTN: Compliance Department
PO Box 807
Camino, California 95709

If to Business Associate:

ImageTrend, Inc.
Attn: Michael J. McBrady
20855 Kensington Blvd.
Lakeville, MN 55044

14. **Waiver.** No provision of this Agreement or any breach thereof shall be deemed waived unless such waiver is in writing and signed by the Party claimed to have waived such provision or breach. No waiver of a breach shall constitute a waiver of or excuse any different or subsequent breach.
15. **Assignment.** Neither Party may assign (whether by operation or law or otherwise) any of its rights or delegate or subcontract any of its obligations under this Agreement without the prior written consent of the other Party. Notwithstanding the foregoing, Covered Entity shall have the right to assign its rights and obligations hereunder to any entity that is an affiliate or successor of Covered Entity, without the prior approval of Business Associate.
16. **Severability.** Any provision of this Agreement that is determined to be invalid or unenforceable will be ineffective to the extent of such determination without invalidating the remaining provisions of this Agreement or affecting the validity or enforceability of such remaining provisions.
17. **Entire Agreement.** This Agreement constitutes the complete agreement between Business Associate and Covered Entity relating to the matters specified in this Agreement, and supersedes all prior representations or agreements, whether oral or written, with respect to such matters. In the event of any conflict between the terms of this Agreement and the terms of the Business Arrangements or any such later agreement(s), the terms of this Agreement shall control unless the terms of such Business Arrangements are more strict with respect to PHI and comply with the Confidentiality Requirements, or the parties specifically otherwise agree in writing. No oral modification or waiver of any of the provisions of this Agreement shall be binding on either Party; provided, however, that upon the enactment of any law, regulation, court decision or relevant government publication and/or interpretive guidance or policy that the Covered Entity believes in good faith will adversely impact the use or disclosure of PHI under

this Agreement, Covered Entity may amend the Agreement to comply with such law, regulation, court decision or government publication, guidance or policy by delivering a written amendment to Business Associate which shall be effective thirty (30) days after receipt. No obligation on either Party to enter into any transaction is to be implied from the execution or delivery of this Agreement. This Agreement is for the benefit of, and shall be binding upon the parties, their affiliates and respective successors and assigns. No third party shall be considered a third-party beneficiary under this Agreement, nor shall any third party have any rights as a result of this Agreement.

18. **Governing Law.** This Agreement shall be governed by and interpreted in accordance with the laws of the state in which Business Associate is located, excluding its conflicts of laws provisions. Jurisdiction and venue for any dispute relating to this Agreement shall exclusively rest with the state and federal courts in the county in which Business Associate is located.
19. **Equitable Relief.** The parties understand and acknowledge that any disclosure or misappropriation of any PHI in violation of this Agreement will cause the other irreparable harm, the amount of which may be difficult to ascertain, and therefore agrees that the injured party shall have the right to apply to a court of competent jurisdiction for specific performance and/or an order restraining and enjoining any such further disclosure or breach and for such other relief as the injured party shall deem appropriate. Such right is to be in addition to the remedies otherwise available to the parties at law or in equity. Each party expressly waives the defense that a remedy in damages will be adequate and further waives any requirement in an action for specific performance or injunction for the posting of a bond.
20. **Nature of Agreement; Independent Contractor.** Nothing in this Agreement shall be construed to create (i) a partnership, joint venture or other joint business relationship between the parties or any of their affiliates, or (ii) a relationship of employer and employee between the parties. Business Associate is an independent contractor, and not an agent of Covered Entity. This Agreement does not express or imply any commitment to purchase or sell goods or services.
21. **Counterparts.** This Agreement may be executed in one or more counterparts, each of which shall be deemed an original, but all of which together shall constitute one and the same document. In making proof of this Agreement, it shall not be necessary to produce or account for more than one such counterpart executed by the party against whom enforcement of this Agreement is sought. Signatures to this Agreement transmitted by facsimile transmission, by electronic mail in portable document format (".pdf") form, or by any other electronic means intended to preserve the original graphic and pictorial appearance of a document, will have the same force and effect as physical execution and delivery of the paper document bearing the original signature.

IN WITNESS WHEREOF: the undersigned parties, each having authority to bind their respective organizations, hereby agree

Client	_____	ImageTrend	_____
Signature:	_____	Signature:	_____
Print Name:	_____	Print Name:	_____
Title:	_____	Title:	_____
Date:	_____	Date:	_____

DATA EXCHANGE AUTHORIZATION

Between ImageTrend, Inc. (“ImageTrend”), a Minnesota Corporation located at 20855 Kensington Blvd., and El Dorado County Fire Protection District (“the Data Controller” and “Client”) residing at PO Box 807 Camino, California 95709 for transmitting ePHI data as identified below

Whereas; ImageTrend is a provider of data management services and a current Business Associate to the Data Controller and;

Whereas; the Data Controller wishes ImageTrend to exchange certain ePHI data from and to the Data Controller’s System, in ImageTrend’s capacity as a Business Associate

Data Exchange Purpose The purpose of this Data Exchange Authorization is to exchange Data Controller’s data in accordance with the table below that lists the data exchange work items to be fulfilled by ImageTrend (“the Identified Data Exchanges”). It is Data Controllers sole obligation to ensure the “Destination” column is accurate. ImageTrend will fulfill and exchange data with the listed Destination party, and will not deviate from the identified destination unless ImageTrend is directed otherwise in writing by Data Controller. Notwithstanding any term to the contrary, ImageTrend shall not be liable in any manner for sending or receiving data as outlined below; Data Controller assumes all risk for the data source(s) and destination(s) identified below.

Description	Quote Description	Data Source	Data Destination
TeleStaff Distribution	Once a CAD incident comes through for EMS or fire incidents, the incident time and unit data is used to look up the appropriate crew from the Telestaff data in order to populate on the report.	ImageTrend at Lakeville, MN55044	TeleStaff

Authorization. Data Controller hereby authorizes ImageTrend to transmit, import, and/or disclose in accordance with the Identified Data Exchanges, and to transmit, import and/or disclose other data reasonably necessary to achieve the purpose of each work line item outlined in the table above. This Agreement modifies any prior agreements of the parties only to the extent necessary to effect this agreement, and does not otherwise change the terms of any prior agreements between the parties.

Right to Revoke or Terminate. Data Controller may terminate or revoke the right to transmit or disclose data granted to ImageTrend by this Agreement at any time by providing reasonable written notice to ImageTrend and providing a commercially reasonable period of time in which to effect the termination.

The Parties hereby agree to this Data Exchange Authorization:

IN WITNESS WHEREOF: the undersigned parties, each having authority to bind their respective organizations, hereby agree

Client _____

ImageTrend _____

Signature: _____

Signature: _____

Print Name: _____

Print Name: _____

Title: _____

Title: _____

Date: _____

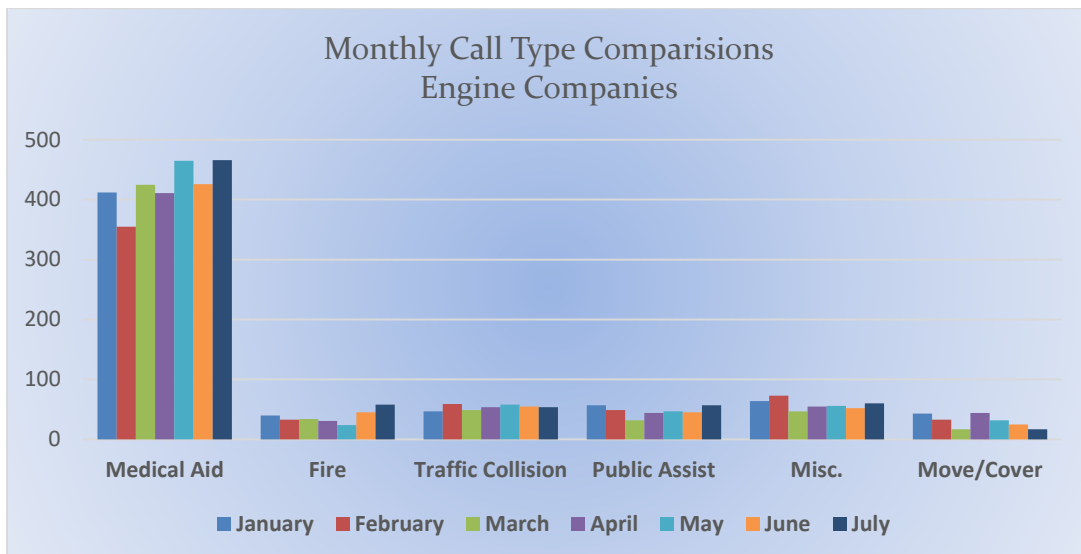
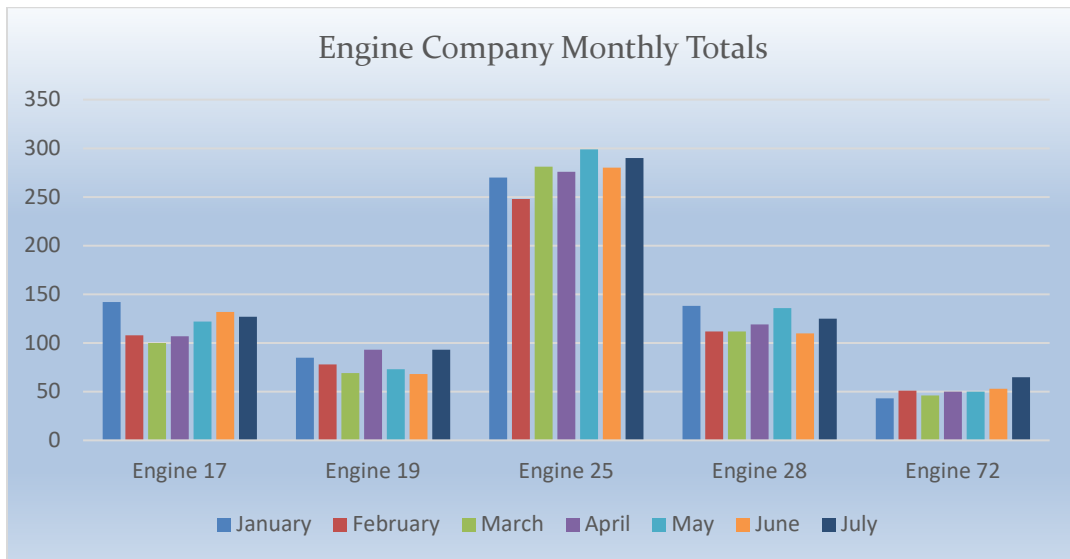
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El Dorado County Fire Protection District

Monthly Run Statistics and Call Break Down – July 2022 Engine Companies and Medic Units

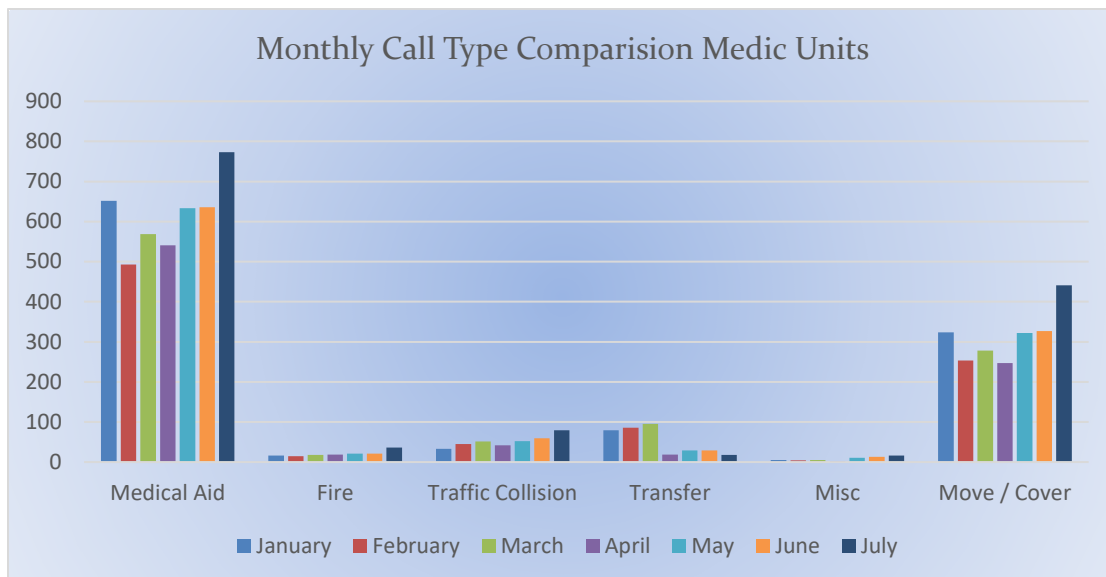
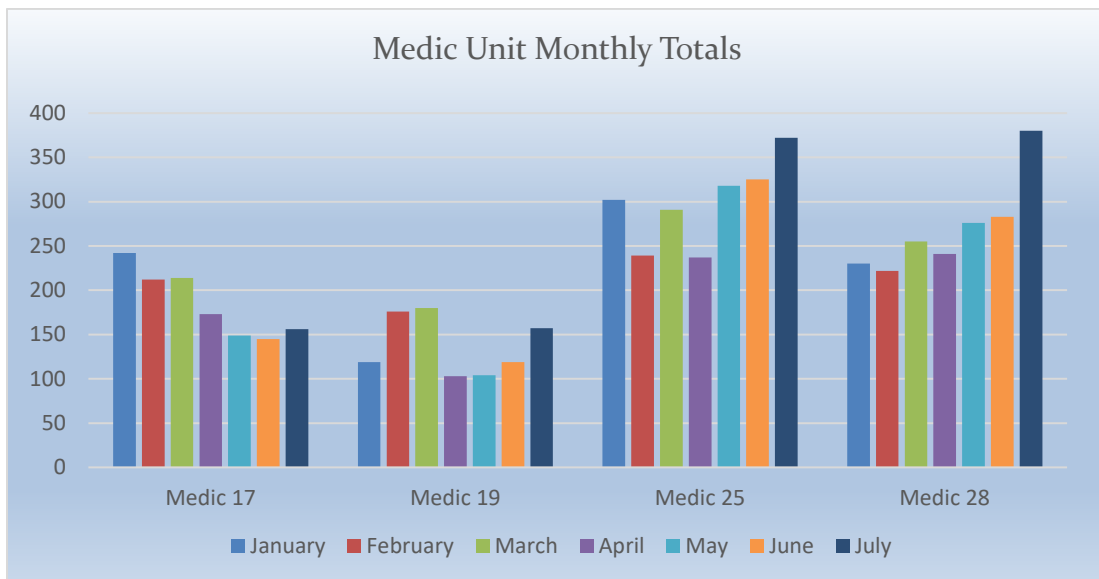
Total Responses for Engine Companies: 700





El Dorado County Fire Protection District

Total Responses for Medic Units: 1065





El Dorado County Fire Protection District



Station 25 Run Review July 2022

ENGINE 25: 290 Total Calls

Medical Aid- 208
Fire- 13
Traffic Collision- 15
Public Assist- 25
Misc- 27
Move/Cover - 1

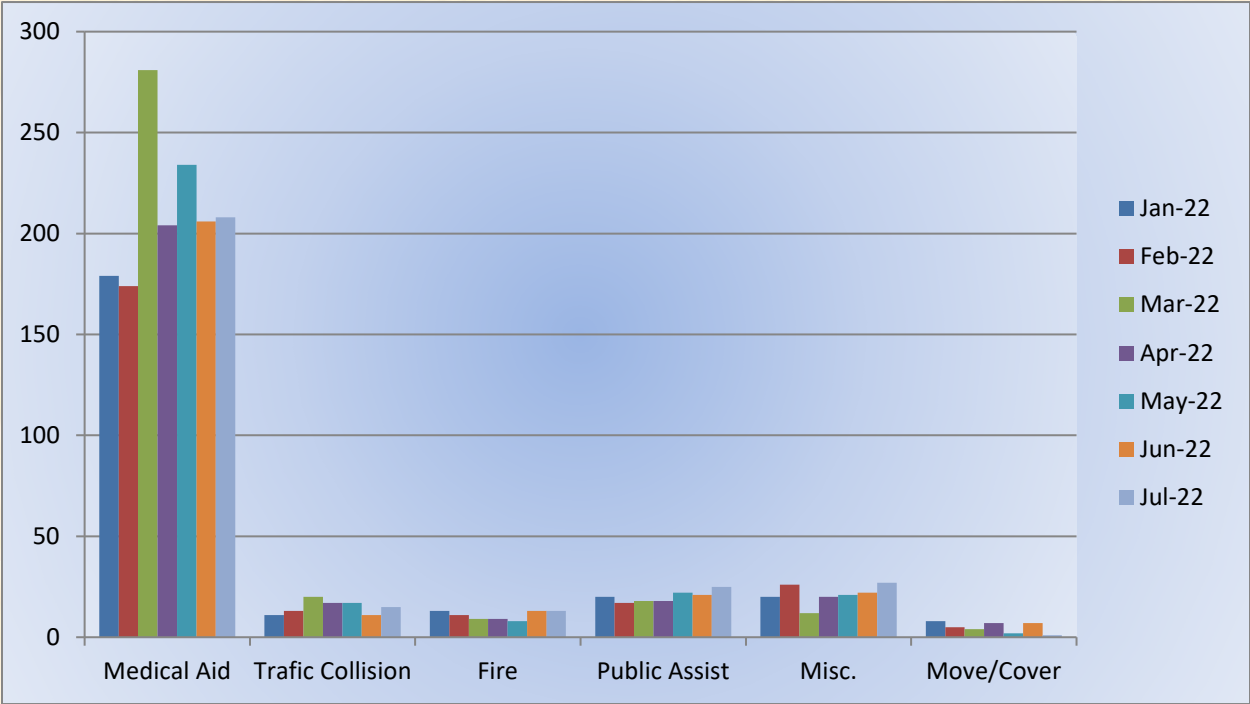
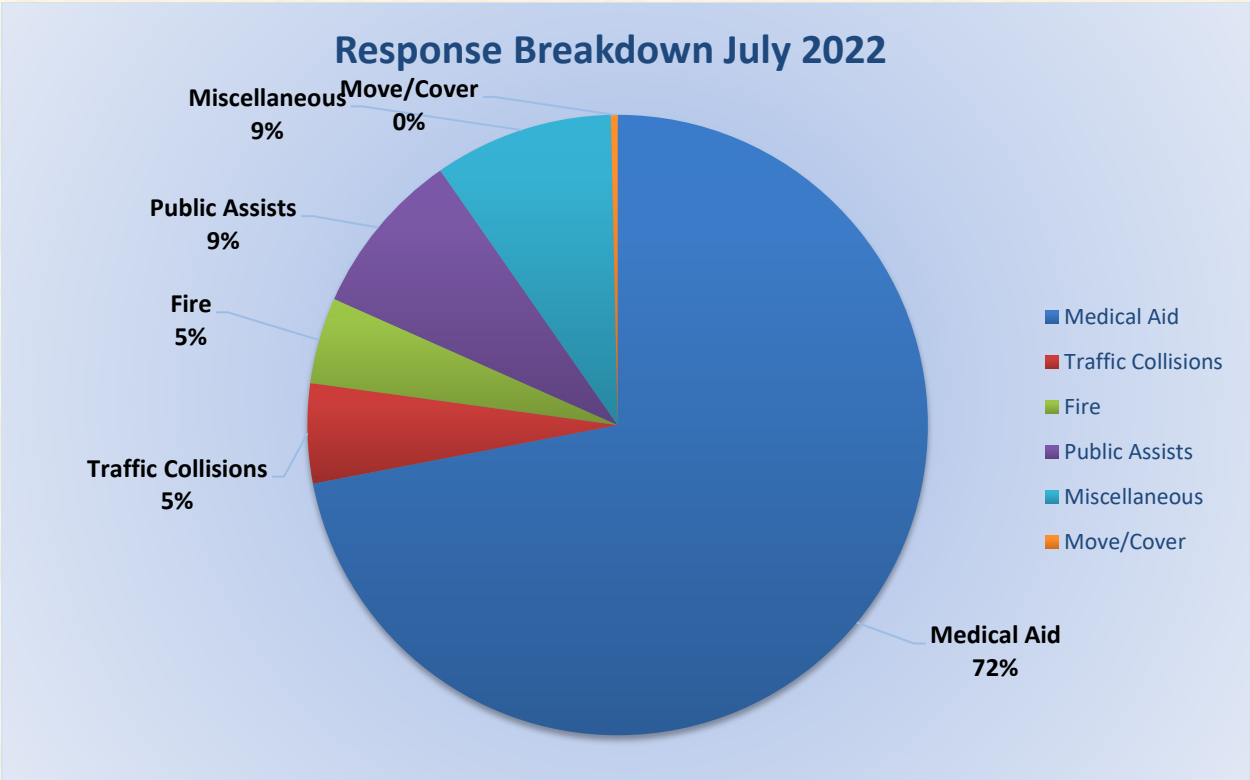


MEDIC 25: 372 Total Calls

Medical Aid- 273
Fire- 11
Traffic Collision- 18
Transfer- 13
Misc- 7
Move/Cover – 60

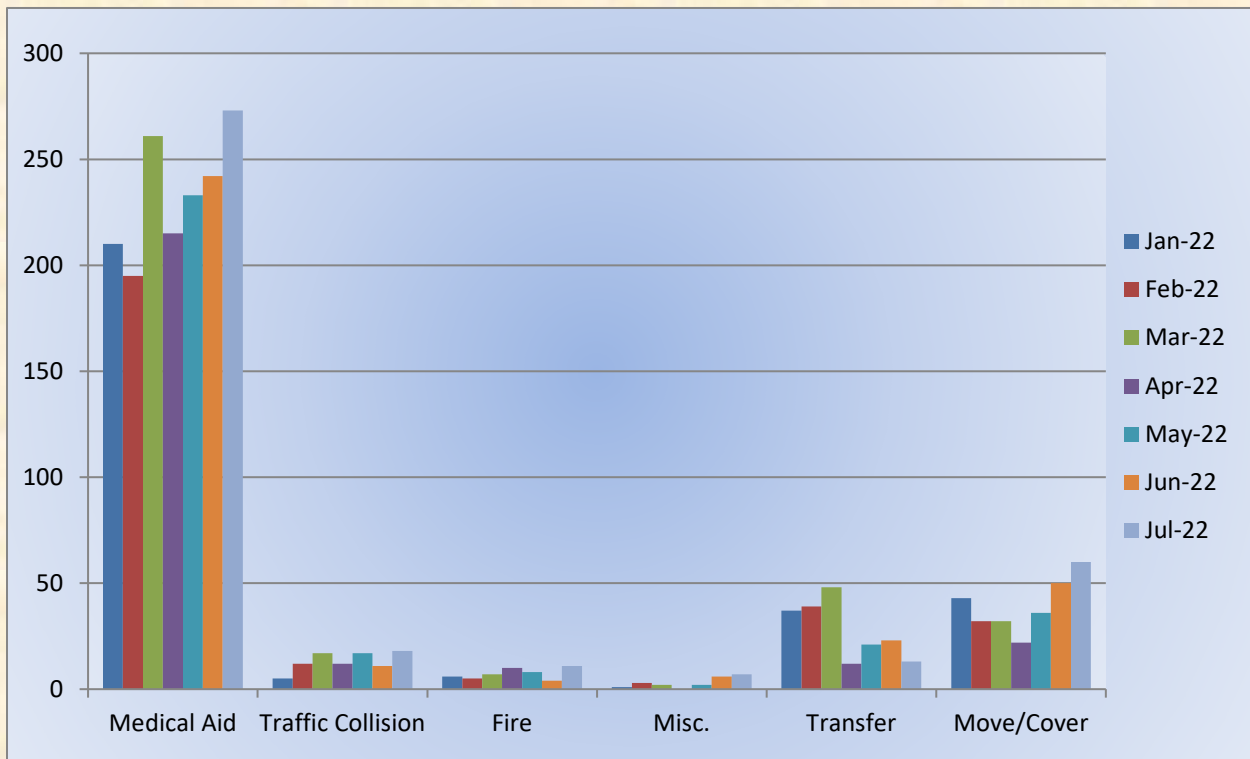
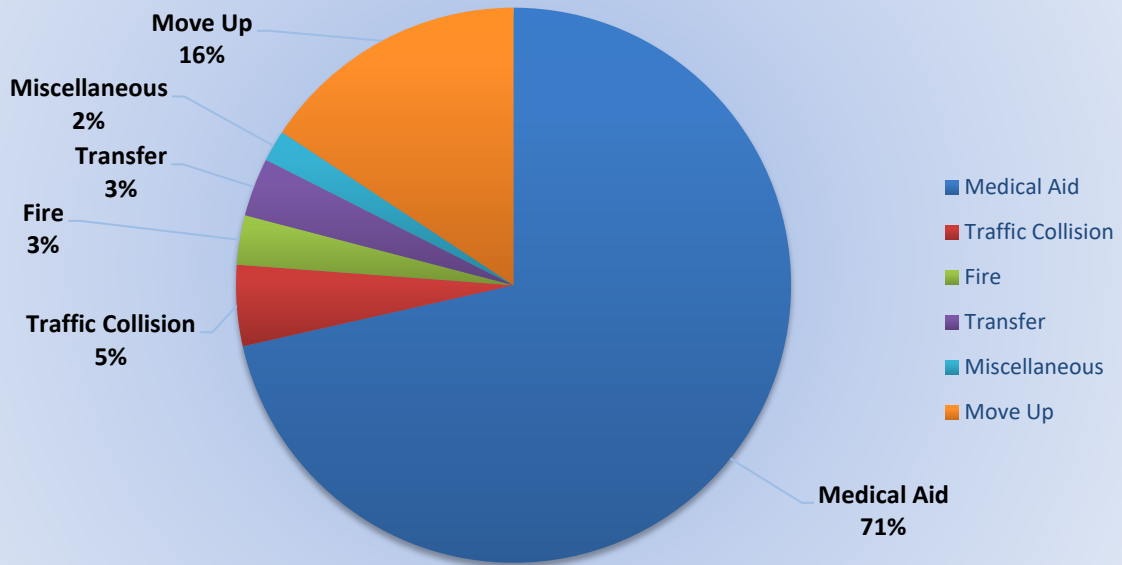


Engine 25 Monthly Statistics Comparison



Medic 25 Monthly Statistics Comparison

Response Breakdown July 2022



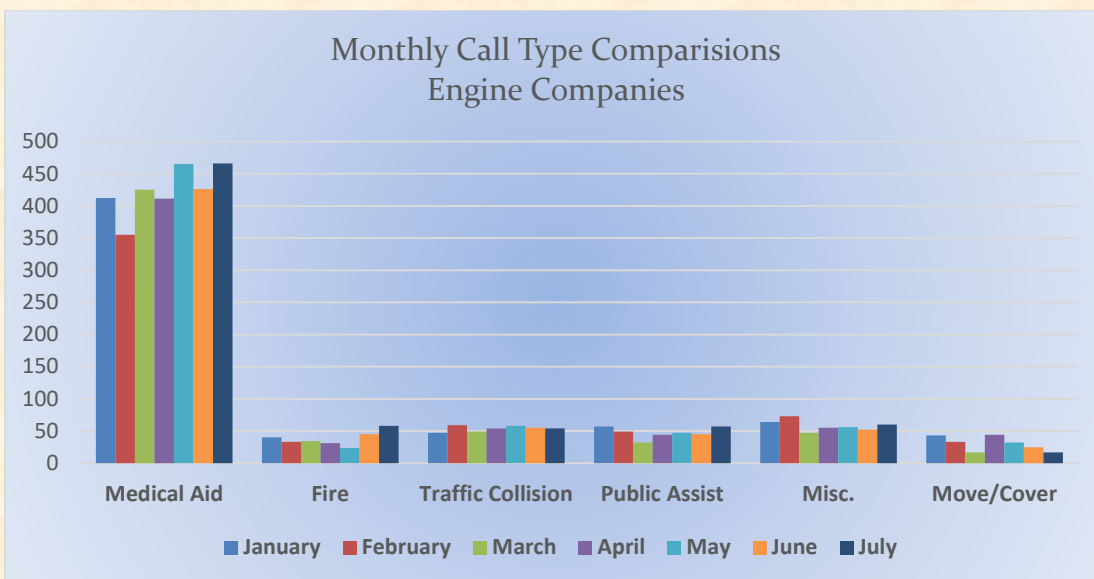
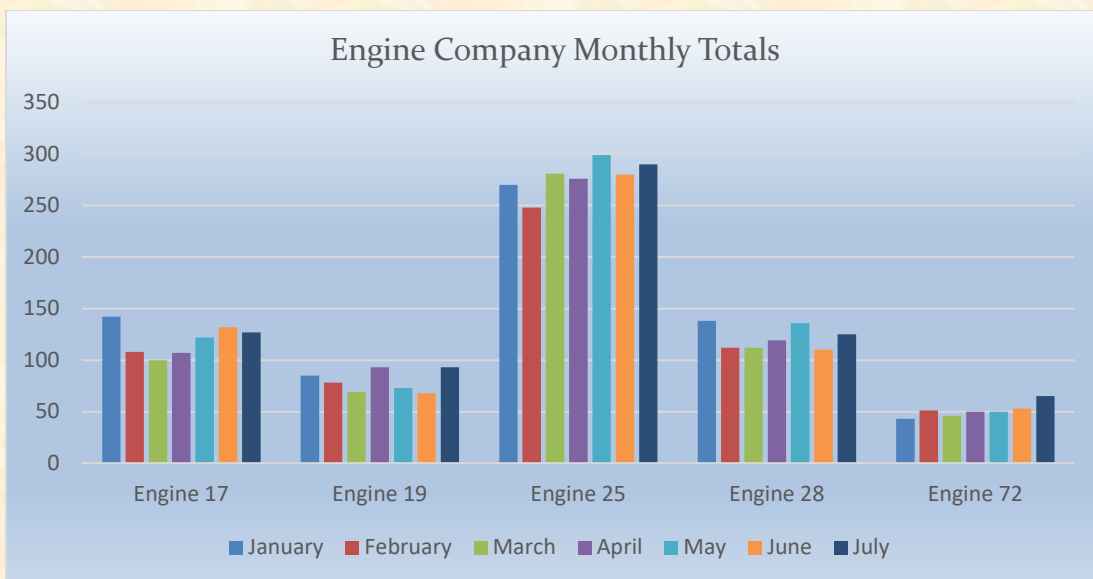


El Dorado County Fire Protection District



Monthly Run Statistics and Call Break Down – July 2022 Engine Companies and Medic Units

Total Responses for Engine Companies: 700

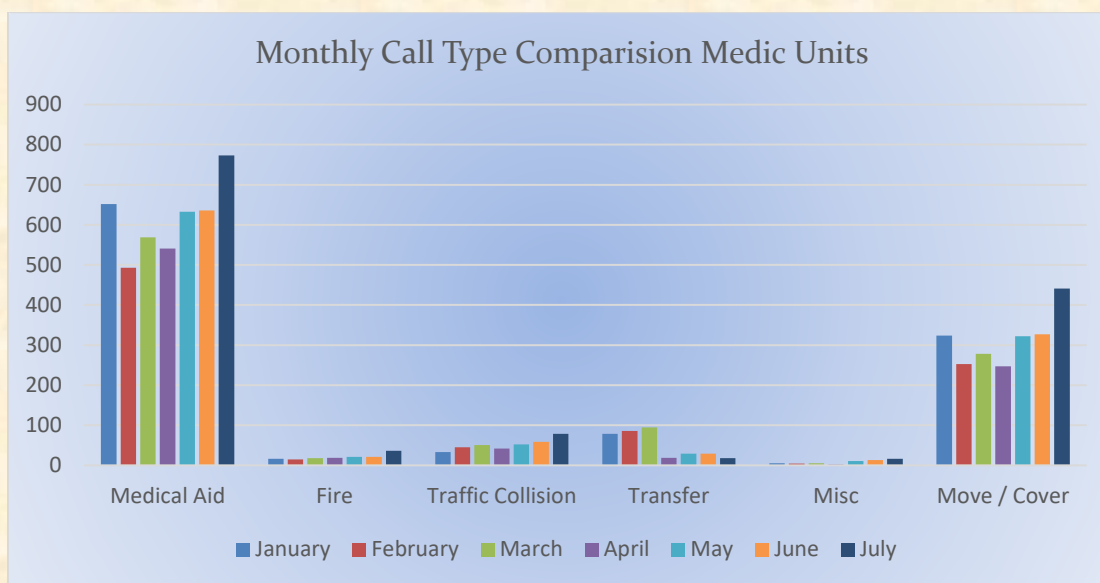
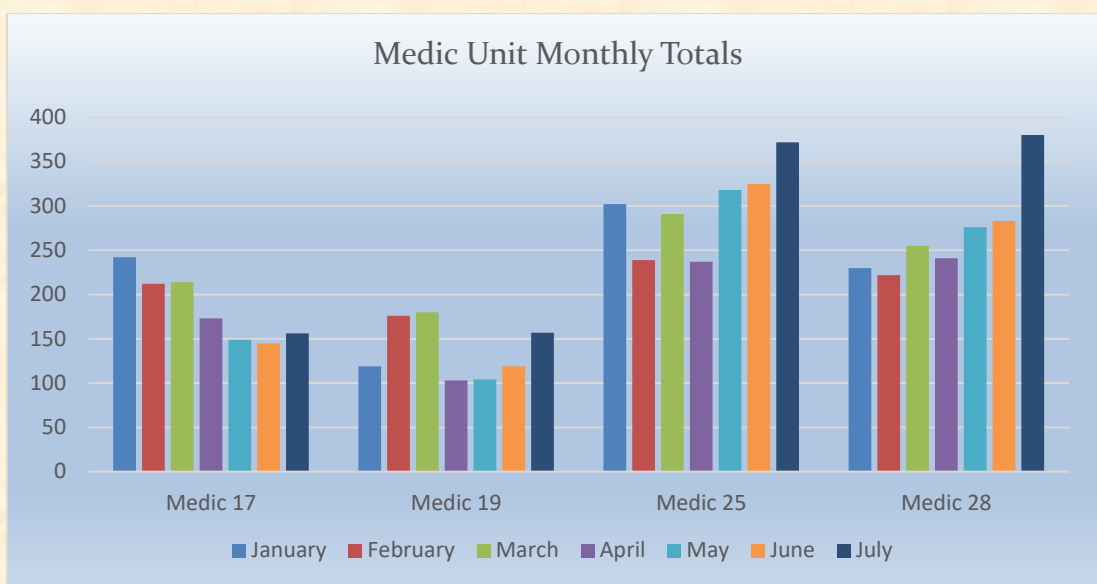




El Dorado County Fire Protection District



Total Responses for Medic Units: 1065





El Dorado County Fire Protection District

Station 17 Run Review July 2022

ENGINE 17: 127 Total Calls

Medical Aid- 84

Fire- 9

Traffic Collision- 14

Public Assist- 10

Misc.- 8

Move/Cover - 0

MEDIC 17: 156 Total Calls

Medical Aid- 135

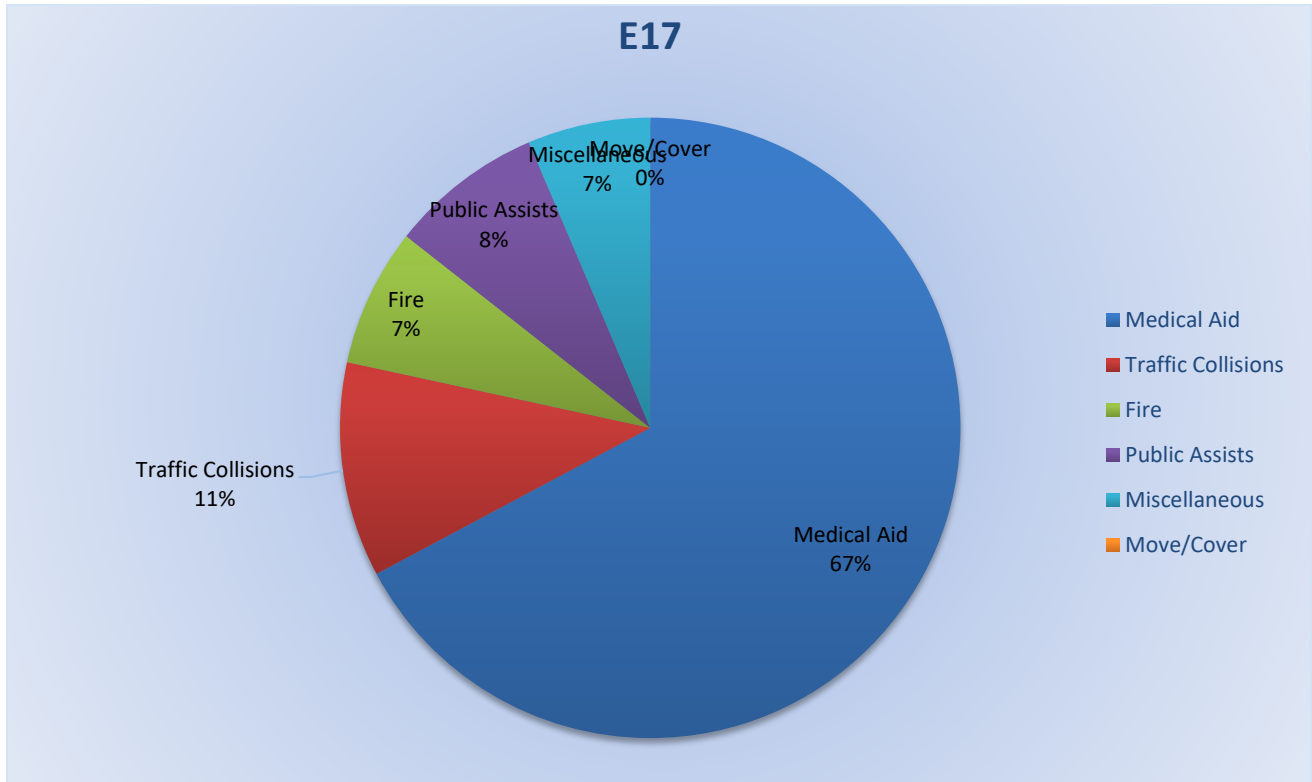
Fire- 4

Traffic Collision- 17

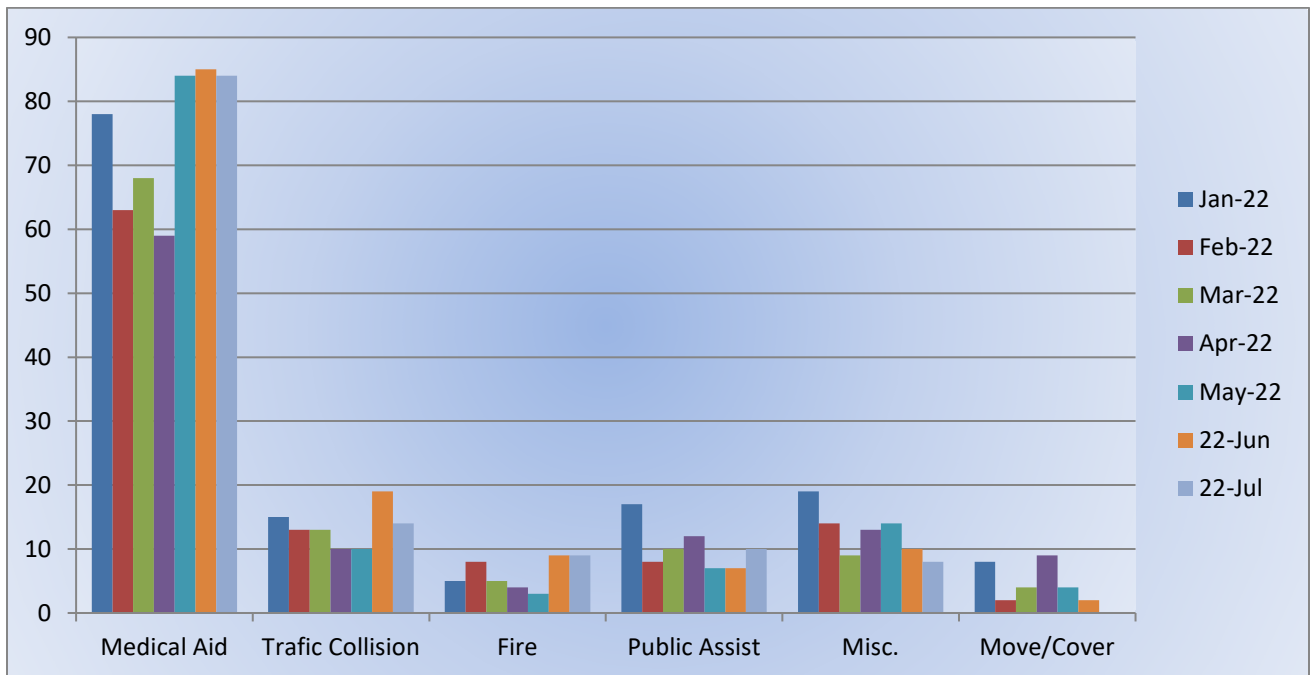
Transfer- 1

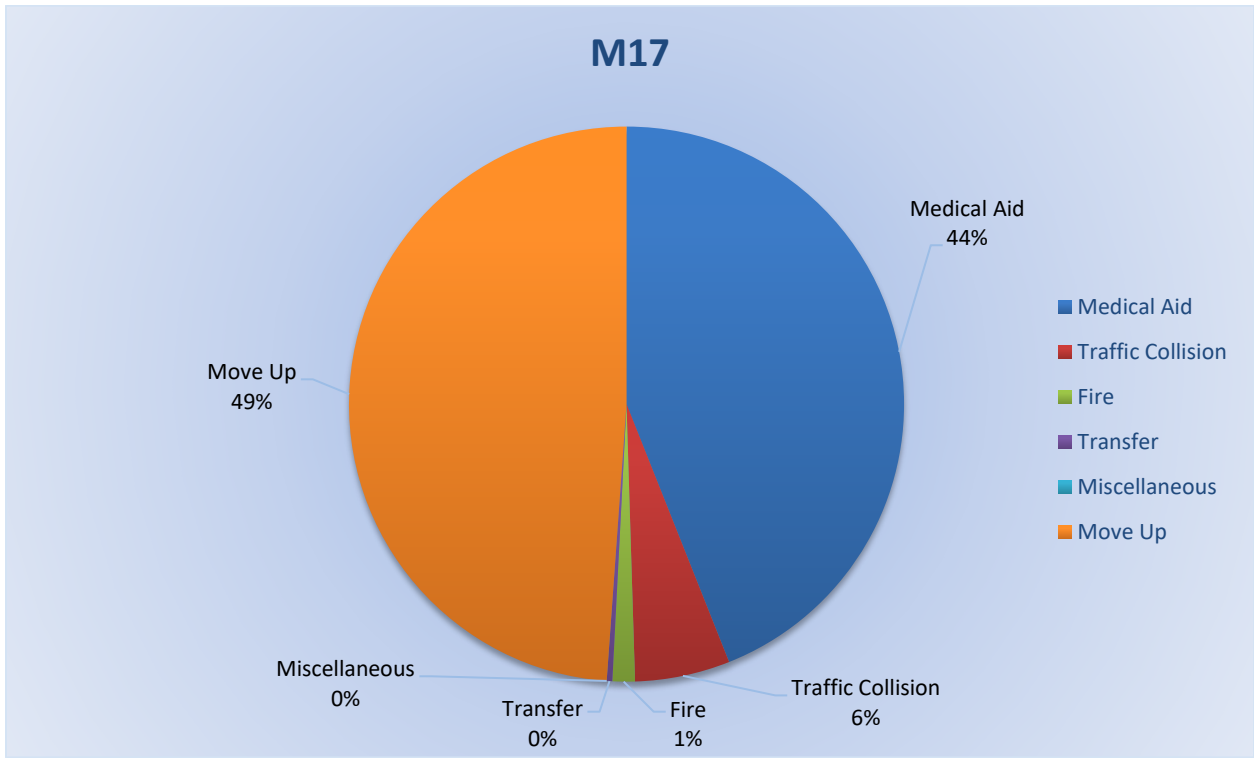
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Move/Cover - 150

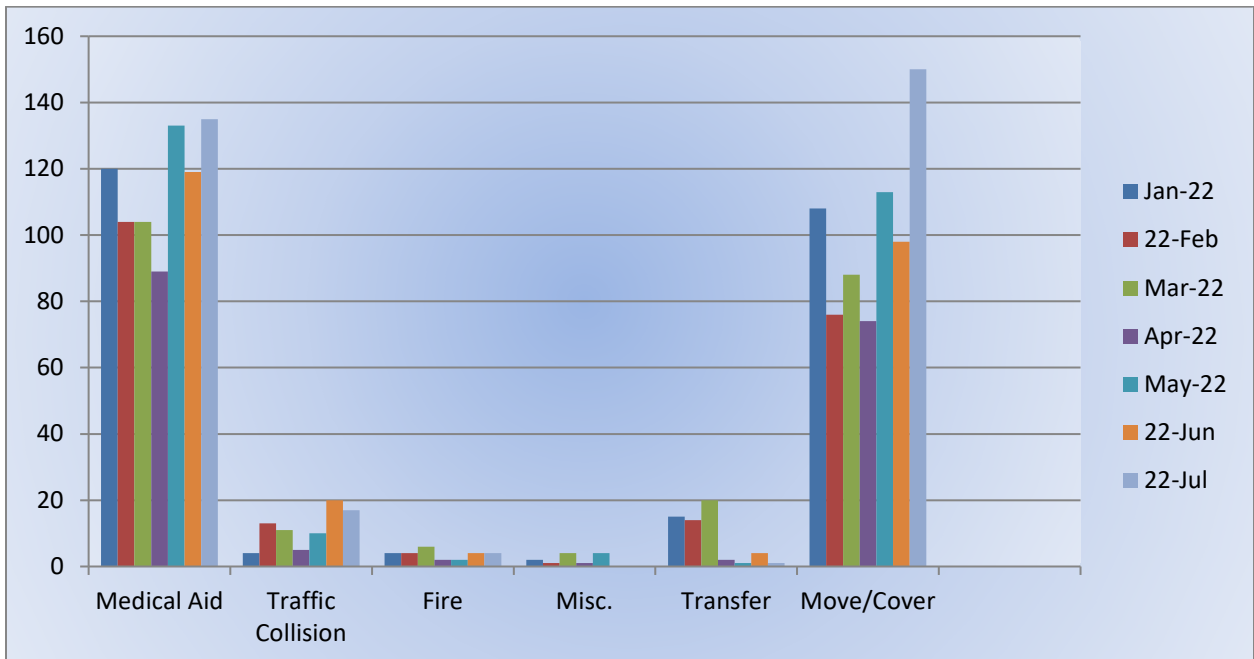


E17 Monthly Statistics Comparison





M17 Monthly Statistics Comparison





El Dorado County Fire Protection District

Station 19 Run Review July 2022

ENGINE 19: 93 Total Calls

Medical Aid - 73

Fire - 11

Traffic Collision - 11

Public Assist - 5

Misc - 4

Move/Cover - 3

MEDIC 19: 157 Total Calls

Medical Aid- 124

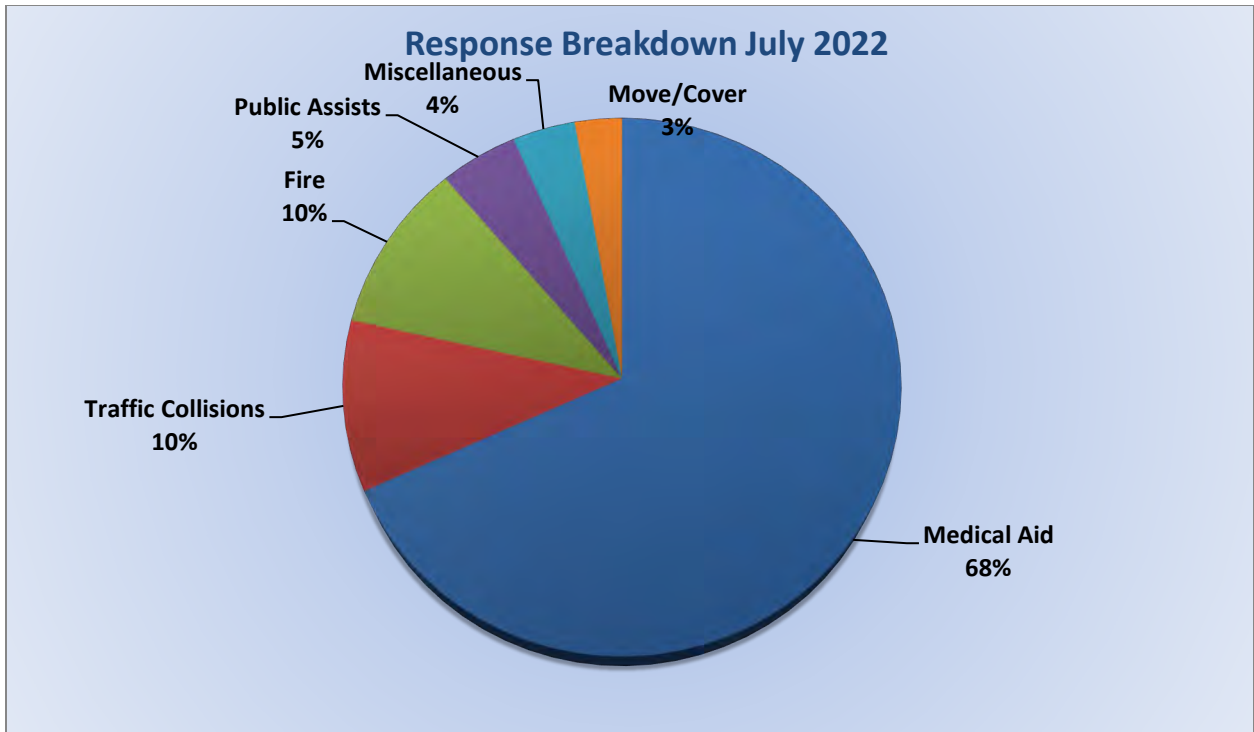
Fire- 9

Traffic Collision- 17

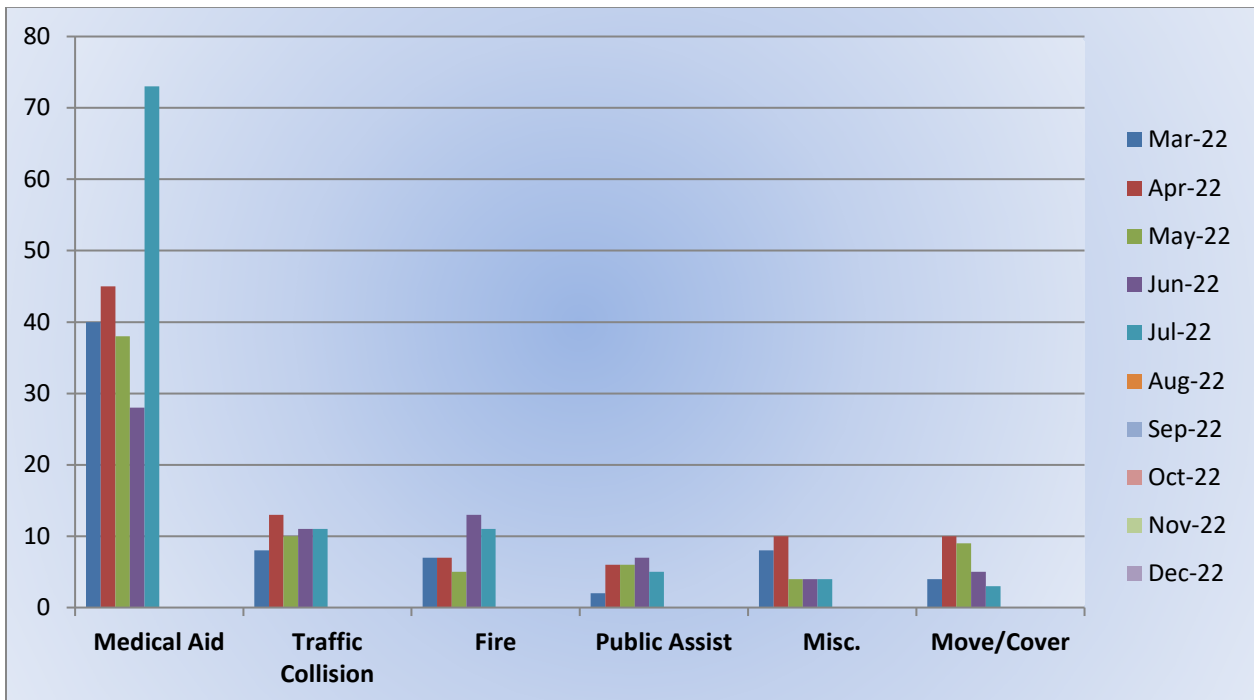
Transfer- 1

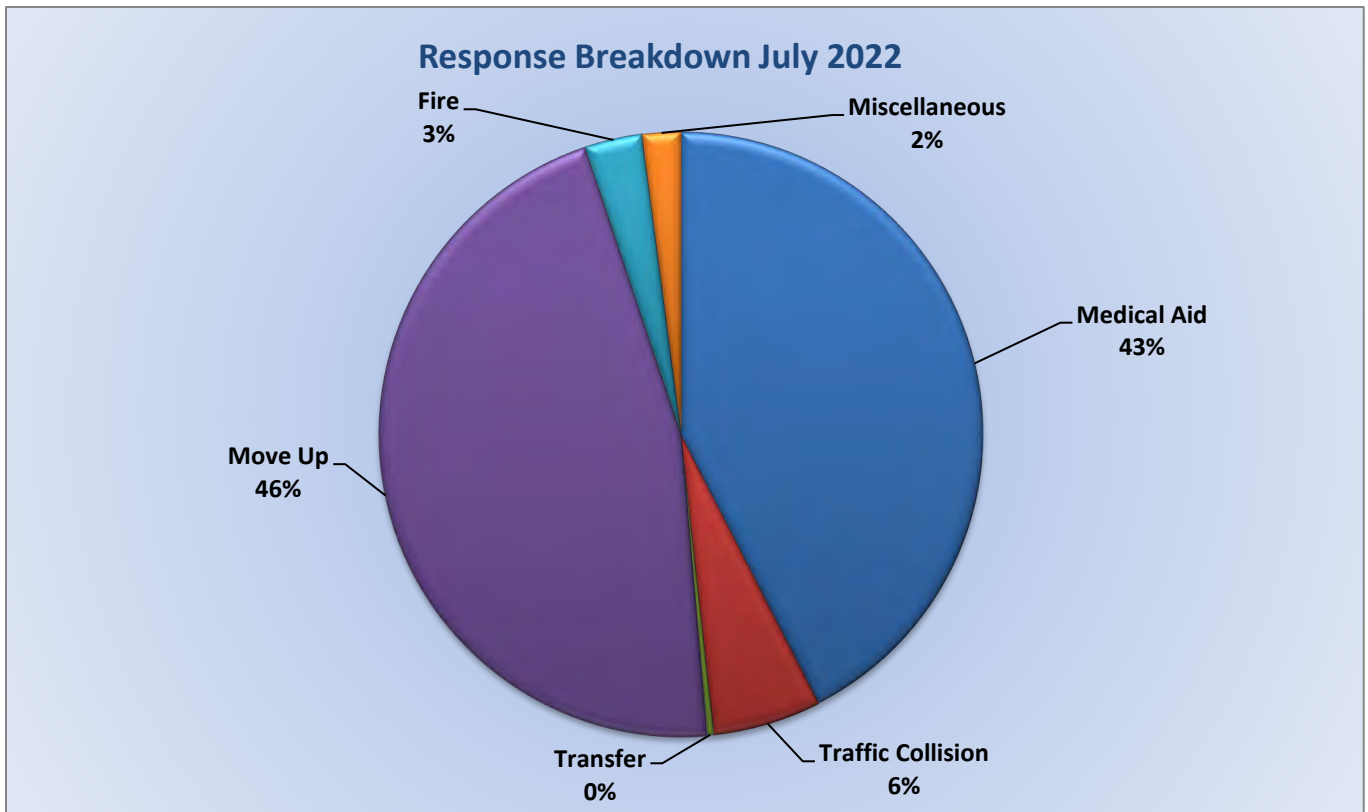
Misc- 6

Move/Cover - 135

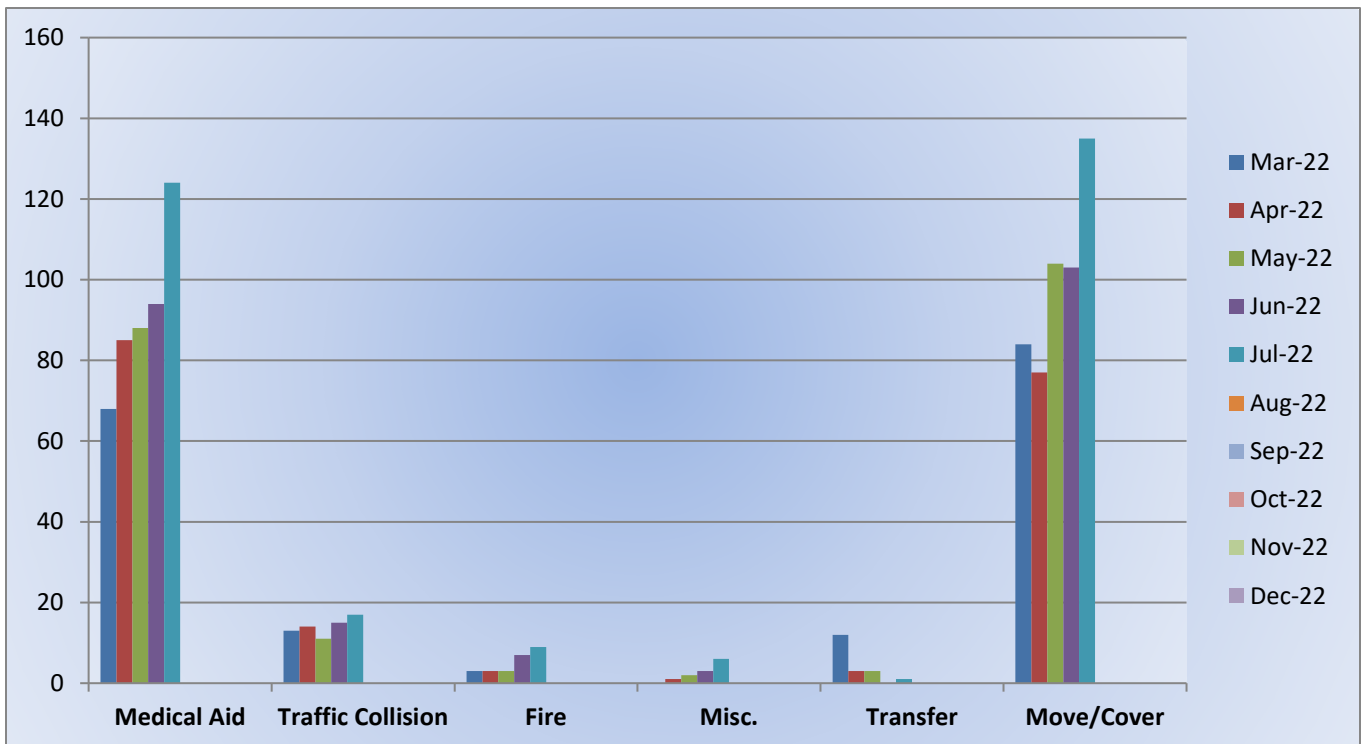


E19 Monthly Statistics Comparison





M19 Monthly Statistics Comparison





El Dorado County Fire Protection District

Station 25 Run Review July 2022

ENGINE 25: 290 Total Calls

Medical Aid- 208

Fire- 13

Traffic Collision- 15

Public Assist- 25

Misc- 27

Move/Cover - 1

MEDIC 25: 372 Total Calls

Medical Aid- 273

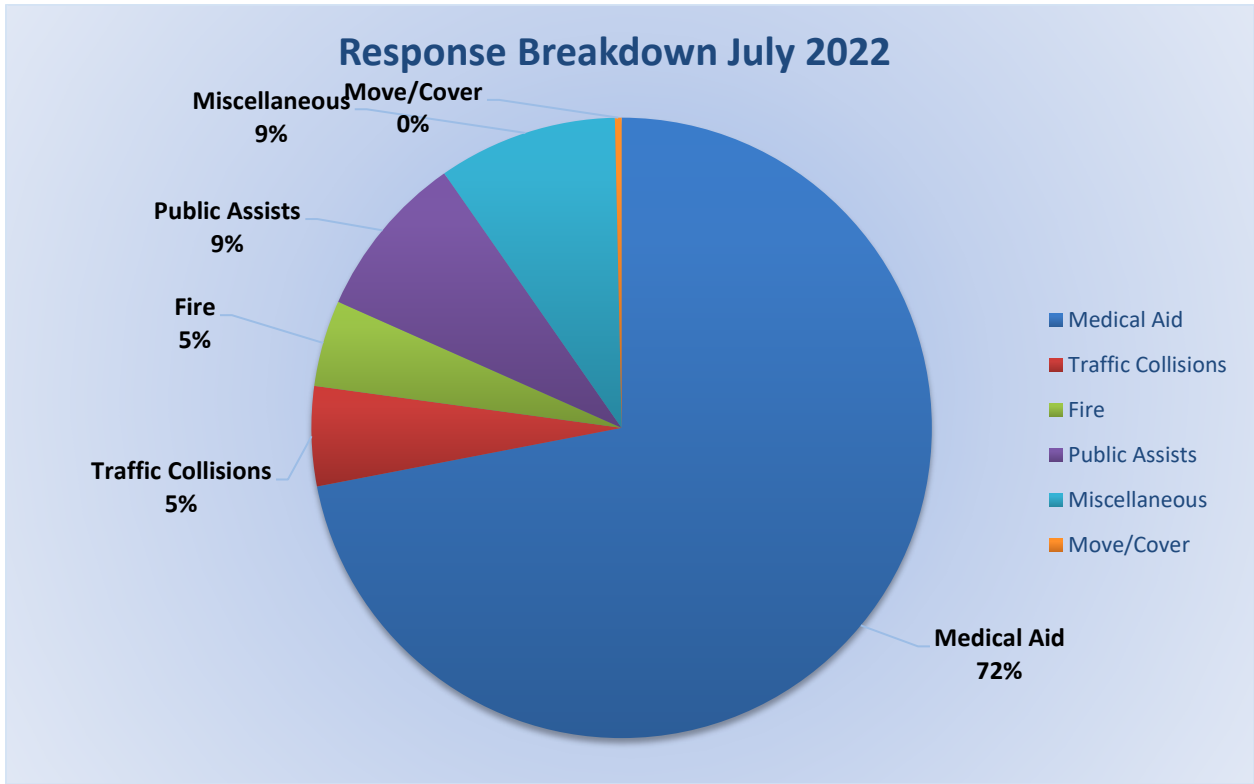
Fire- 11

Traffic Collision- 18

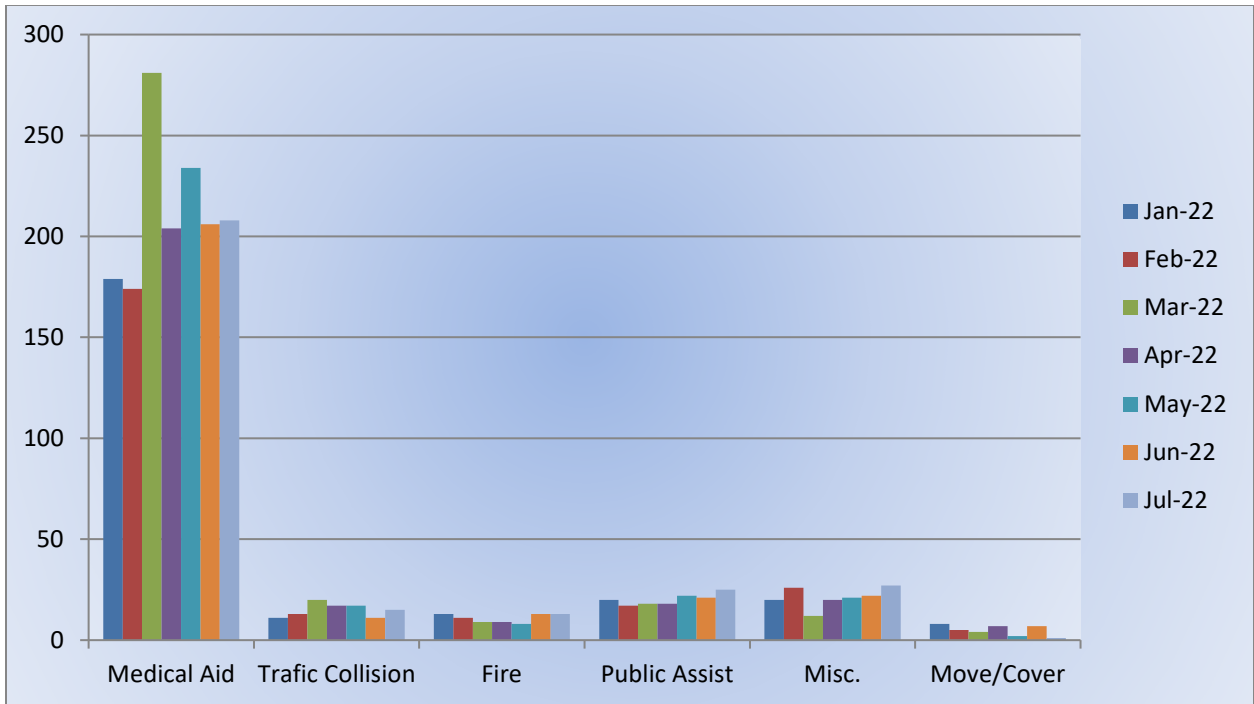
Transfer- 13

Misc- 7

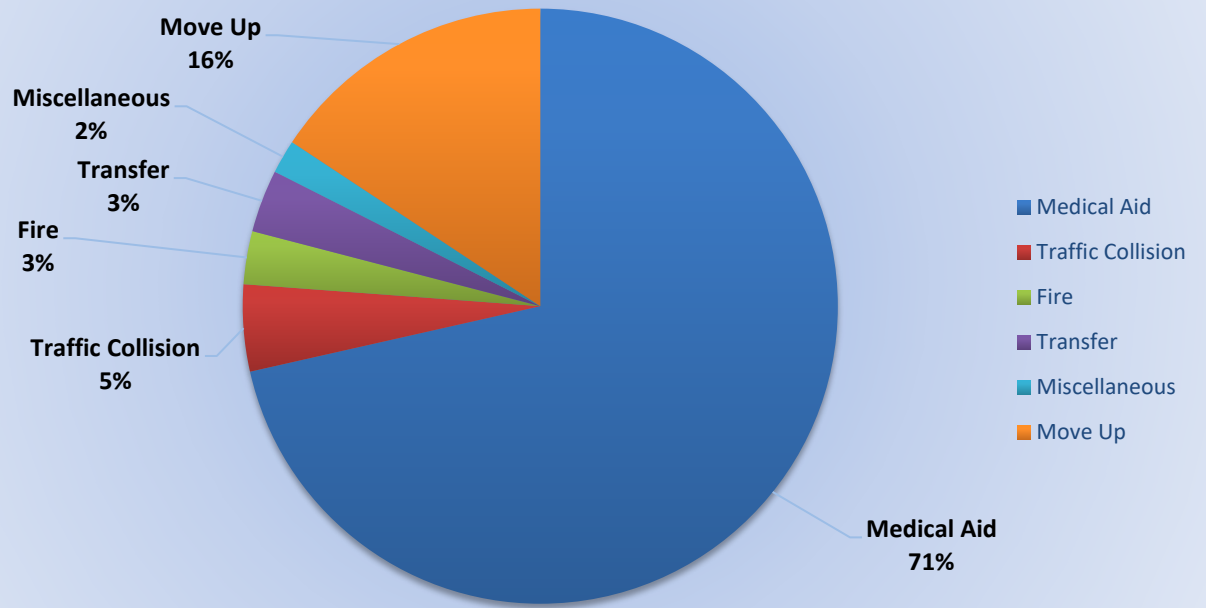
Move/Cover - 60



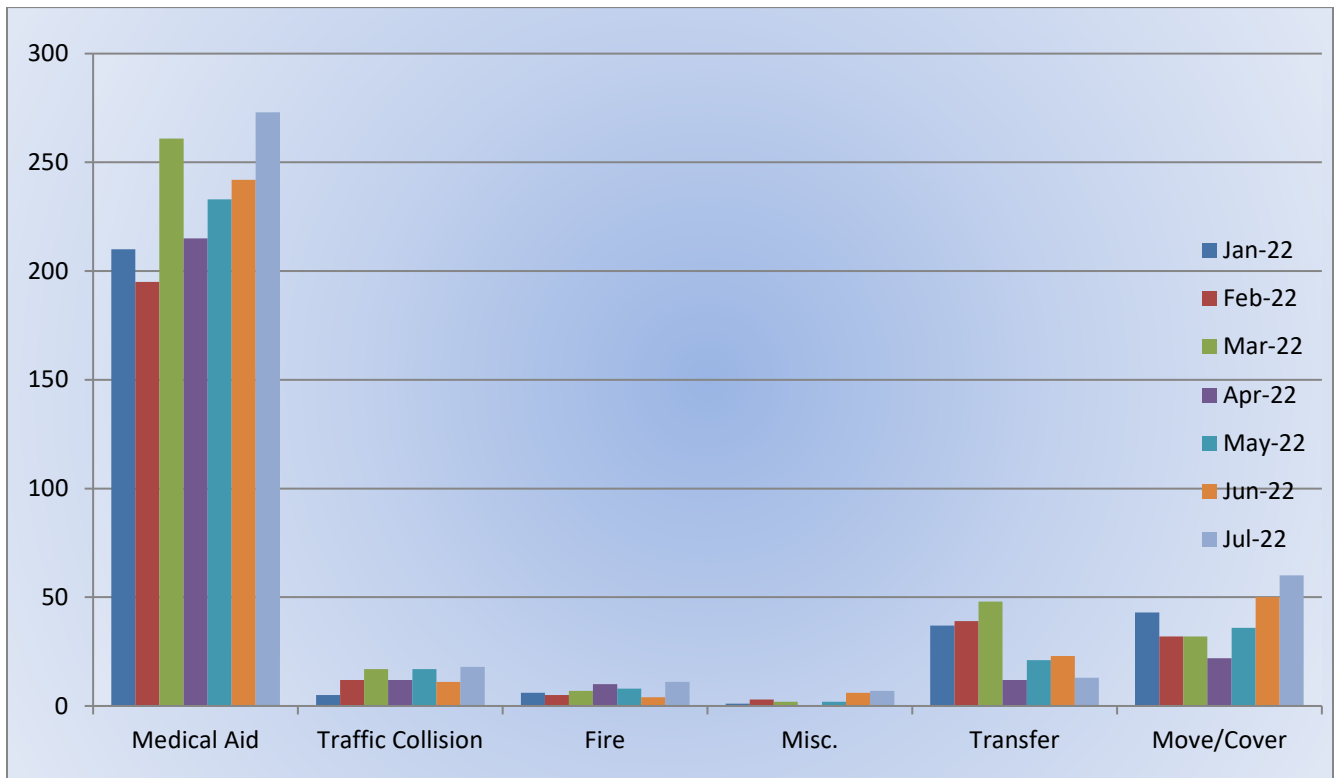
E25 Monthly Statistics Comparison



Response Breakdown July 2022



M25 Monthly Statistics Comparison





El Dorado County Fire Protection District

Station 28 Run Review July 2022

ENGINE 28: 125 Total Calls

Medical Aid - 63

Fire - 19

Traffic Collision - 10

Public Assist - 8

Misc - 13

Move/Cover - 12

MEDIC 28: 380 Total Calls

Medical Aid- 241

Fire- 12

Traffic Collision- 25

Transfer- 3

Misc- 3

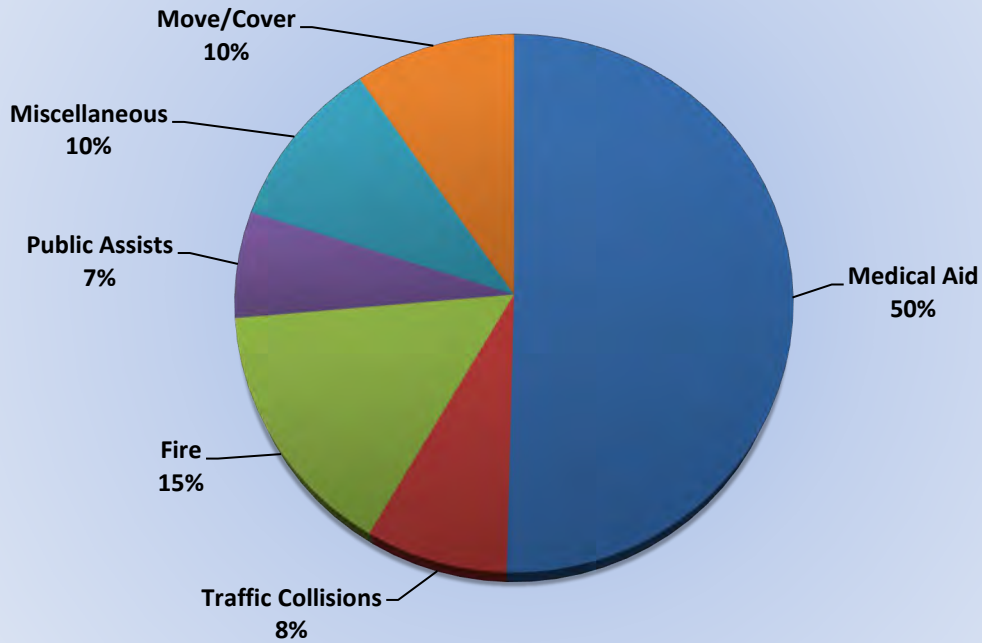
Move/Cover - 96

CQI Statistics:

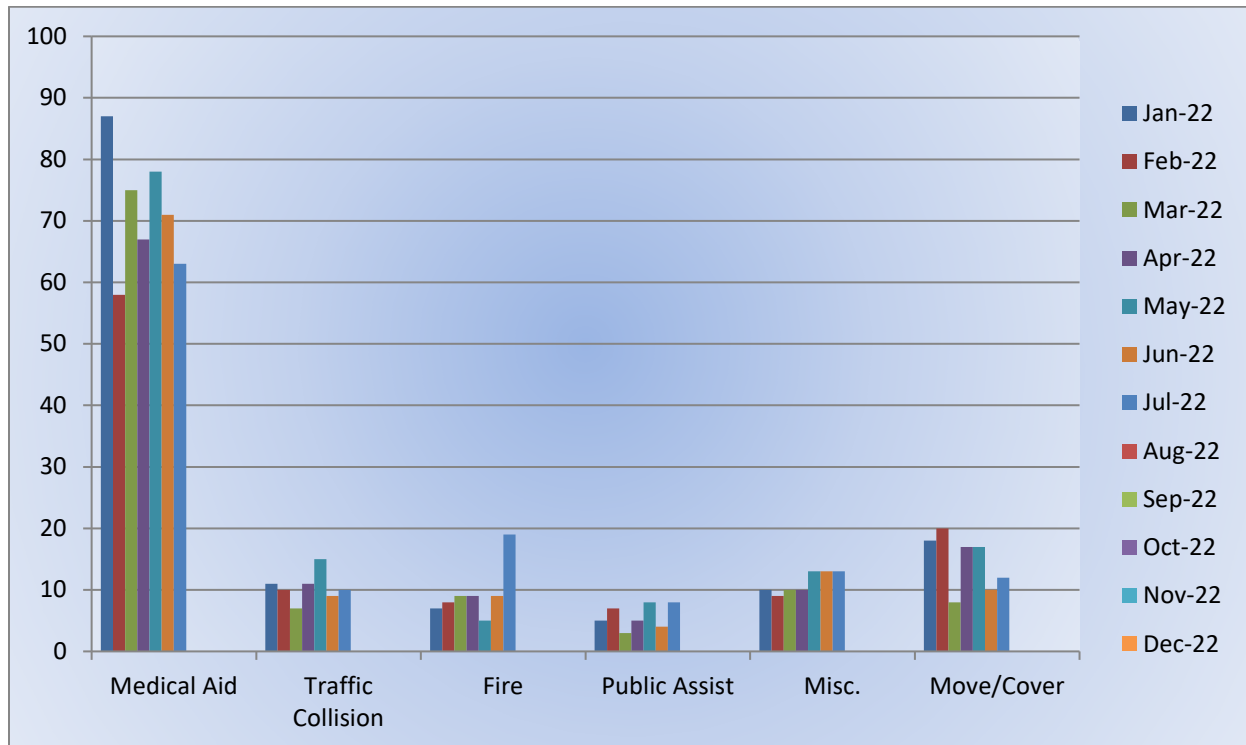
M28: 174/174– 100%

E28: 5/5– 100%

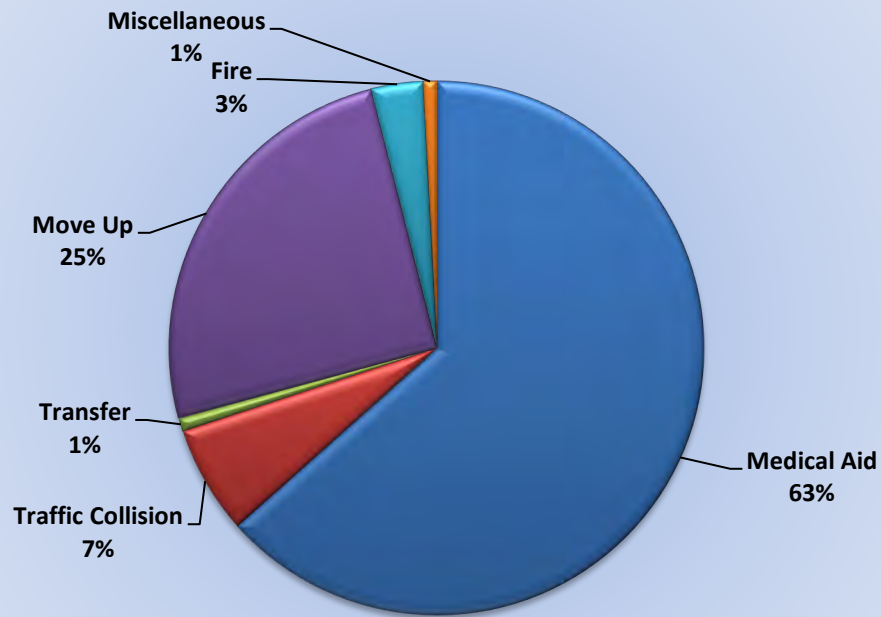
Response Breakdown July 2022



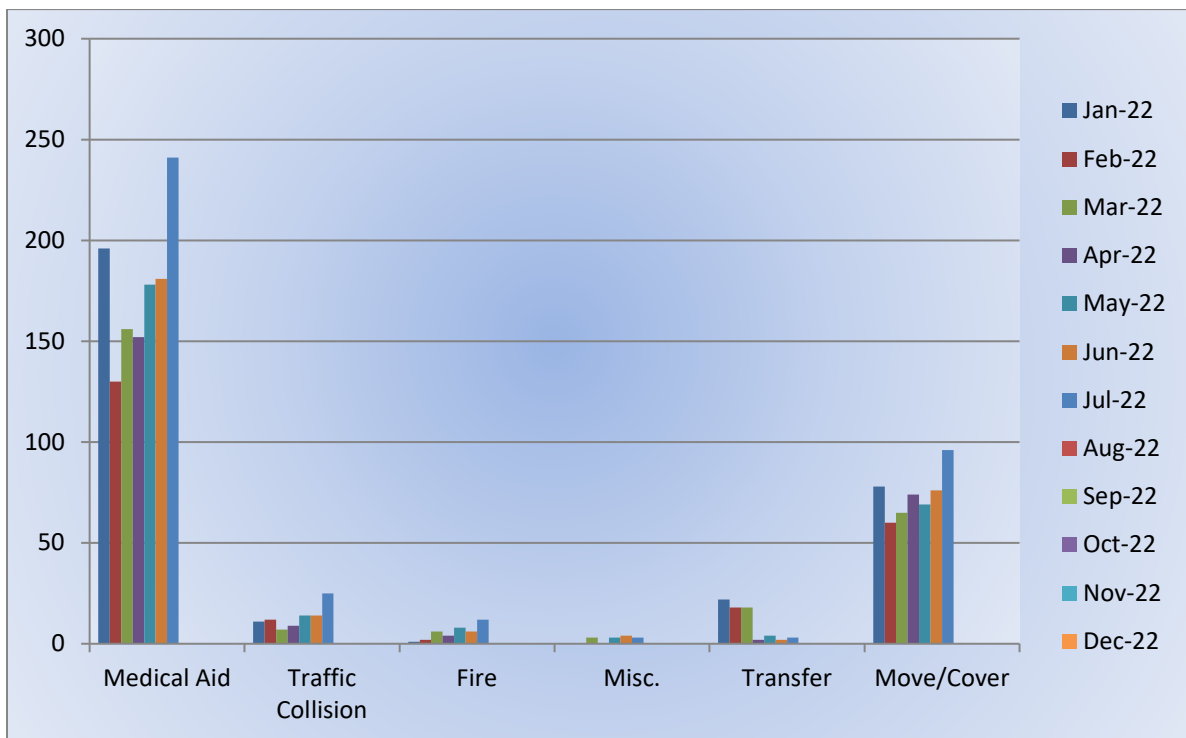
E28 Monthly Statistics Comparison



Response Breakdown July 2022



M28 Monthly Statistics Comparison





El Dorado County Fire Protection District

Station 72 Run Review July 2022

ENGINE 72: 65 Total Calls

Medical Aid- 36

Fire- 6

Traffic Collision- 2

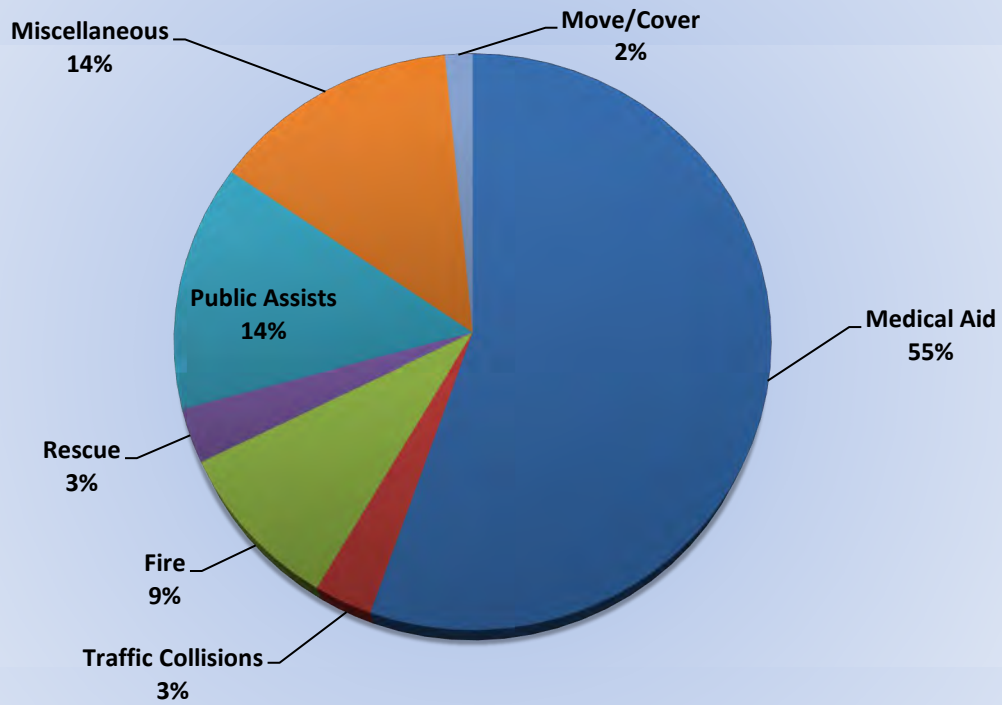
Rescues- 2

Public Assist- 9

Misc- 9

Move/Cover - 1

Response Breakdown July 2022



E72 Monthly Statistics Comparison

