BUSINESS OF THE CITY COUNCIL
CITY OF MERCER ISLAND

AB 5587
October 7, 2019
Consent Calendar

AGENDA BILL INFORMATION

TITLE: **RECOMMENDED ACTION:**	AB 5587: Fire Apparatus and Equipment Service Interlocal Agreement with Eastside Fire & Rescue Authorize City Manager to sign Interlocal Agreement.	☐ **Discussion Only** ☒ **Action Needed:** ☒ **Motion** ☐ **Ordinance** ☐ **Resolution**

DEPARTMENT OF	Fire	Steve Heitman, Fire Chief
COUNCIL LIAISON	n/a	
EXHIBITS	Interlocal Agreement	
CITY COUNCIL PRIORITY	n/a	

AMOUNT OF EXPENDITURE	$ $106,400
AMOUNT BUDGETED	$ $106,400
APPROPRIATION REQUIRED	$ n/a

SUMMARY

In an effort to contain costs without sacrificing a high level of service, the Mercer Island Fire Department recommends that the City enter into an Interlocal Agreement ("ILA") for the its apparatus servicing and maintenance with Eastside Fire & Rescue ("Eastside Fire").

BACKGROUND

The City of Mercer Island has had an ILA for the maintenance of the City's fire apparatus with the City of Redmond Fire Department ("Redmond Fire") for over 25 years. This arrangement is due to the limited number of agencies that employ mechanics with the certification level required to perform maintenance on these highly technical pieces of equipment.

Redmond Fire was the provider of choice for years due to its professional service, similar agency equipment, and its low cost when compared to other providers. In 2015, Redmond Fire completed a rate analysis and has since steadily increased its rates to achieve cost recovery for the services they provide. In 2018, during budget development for the 2019-2020 biennium, Redmond Fire quoted $106/hour. In 2019, when the Mercer Island and Redmond Fire Departments sat down to discuss the updated ILA, Redmond announced that the actual hourly rate for full cost recovery would be $146/hour plus an additional $17,000 for a staff person to help track work performed and maintenance records. Because the City budgeted for $106/hour, it was agreed that Redmond Fire would honor its original quote for 2019 and postpone hiring additional administrative staff.

At this point, Mercer Island Fire researched other agencies that provide fire apparatus maintenance, which included the Bellevue Fire Department ("Bellevue Fire") and Eastside Fire & Rescue "(Eastside Fire"). After meeting with both departments, it was concluded that Bellevue Fire would cost more than staying with the Redmond Fire. Eastside Fire quoted the City of Redmond's 2019 rate ($106/hour) and agreed to keep its future rates in line with cost of living increases. In addition, Eastside Fire utilizes light duty personnel to shuttle apparatus back and forth for servicing whenever possible, whereas the City currently pays the City of Redmond's mechanics or off-duty firefighters to shuttle apparatus. Eastside Fire is also expanding their number of maintenance personnel and should have shorter turn-around times for apparatus service. The service levels received from Eastside Fire will be the same or higher than those provided by Redmond Fire.

Signing a new ILA for the maintenance of the City's fire apparatus with Eastside Fire & Rescue will result in long-term savings for the City of Mercer Island without decreasing the current level of service.

RECOMMENDATION

Authorize the City Manager to sign an Interlocal Agreement with Eastside Fire & Rescue for Fire Apparatus and Equipment Service.

INTERLOCAL AGREEMENT
BETWEEN
THE CITY OF MERCER ISLAND
AND
EASTSIDE FIRE & RESCUE
FOR FIRE APPARATUS AND EQUIPMENT SERVICE

THIS AGREEMENT is entered between the City of Mercer Island ("the City") and Eastside Fire & Rescue ("EF&R") and is dated January 1, 2020 for reference purposes.

RECITALS

A. The City is a municipal corporation of the State of Washington and operates a municipal fire department.

B. EF&R is a fire and emergency medical services joint operation of King County Fire Protection District No. 10, King County Fire District No. 38, King County, Washington, the City of North Bend, Washington, City of Issaquah, Washington, and the City of Sammamish, Washington.

C. The City desires to contract with EF&R to provide maintenance, inspection, testing and repair services for City-owned fire and EMS apparatus and equipment. EF&R has the facilities and personnel to provide such services on the terms and conditions set forth herein.

D. This Agreement is entered under the authority of the Interlocal Cooperation Act, Chapter 39.34 RCW. No separate legal entity will be formed, and no property will be jointly acquired.

AGREEMENT

The City and EF&R agree as follows:

1. For the purposes of this Agreement, the following words shall have the meanings set forth:

    1.1. "Apparatus" means City-owned vehicles used to provide firefighting, rescue, hazardous materials and emergency medial services ("EMS"). EF&R shall perform maintenance, inspection and testing for the apparatus identified in Appendix A, attached hereto and incorporated herein. Apparatus include, but are not limited to, fire engines, ladder trucks, brush vehicles, aid units, command vehicles, staff vehicles and marine or water based motorized vehicles.

1.2. “Annual preventative maintenance” means inspection, maintenance and testing of Apparatus and pumps for the Apparatus once a calendar year. This annual preventative maintenance for Apparatus shall include all the inspections, maintenance and testing of the “Quarterly/Annual Mobile Fire Emergency Vehicle Inspection Report” published by the National Fire Protection Association (“NFPA”), attached as Appendix B and incorporated herein, or of an amended version of such Report. This annual preventative maintenance for pumps shall include all the testing protocols and requirements of the “Pump Performance Test” published by the NFPA, attached as Appendix C and incorporated herein, or of an amended version of such report.

1.3. “Emergency repairs” means immediate repairs of Apparatus or equipment done on the road or pursuant to emergency call out.

1.4. “Equipment” means an item that is used to support firefighting, rescue, hazardous materials or EMS activities, including but not limited to smoke ejectors, generators, ladders, hoses and ambulance stretchers.

1.5. “Non-scheduled service and repairs” mean service and repairs not included in Appendix B, or an amended version of Appendix B, for Apparatus, or included in Appendix C, or an amended version of Appendix C, for pumps. Examples of non-scheduled service and repairs are valve repair, pump rebuild, body damage repair, engine repair or replacement, and equipment modification.

1.6. “Periodic Preventative maintenance” means inspection, maintenance and testing for less than all the inspection, maintenance and testing items included in Appendix B. EF&R shall perform periodic preventative maintenance outside of the annual preventative maintenance and no more than twice a calendar year.

2. EF&R shall perform the following services under the following terms and conditions:

2.1. EF&R shall perform annual preventative maintenance on a schedule and at times agreed to by the parties. EF&R shall perform periodic preventative maintenance for items of inspection, maintenance and testing agreed to by the parties once or twice a calendar year during other than annual preventative maintenance. EF&R shall provide fluids that are necessary for annual preventative maintenance and periodic preventative maintenance, including but not limited to motor oils, brake fluids, transmission fluids, antifreeze, gear oils, hydraulic oils, grease and windshield fluids.

2.2. EF&R shall perform non-scheduled repairs and emergency repairs at times agreed to by the parties, but only if EF&R personnel and equipment are available to perform such repairs.

2.3. Unless agreed otherwise by the parties, EF&R shall perform annual preventative maintenance, periodic preventative maintenance, non-scheduled repairs and emergency repairs during EF&R's regular business hours of 8:00 a.m. to 5 p.m. Monday through Thursday and 8:00 a.m. to 12:00 p.m. Friday, except holidays observed by EF&R ("EF&R Regular Hours"). Unless agreed otherwise by the parties, EF&R shall perform the maintenance and repairs at the EF&R shop at 175 Newport Way NW, Issaquah, Washington.

2.4. The City may add apparatus to Appendix A or delete apparatus from Appendix A by submitting written notice of the change with EF&R. EF&R shall acknowledge the change by preparing a revised Appendix A, which shall contain the date of the change. The revised Appendix A shall be considered an amendment of this Agreement without physical attachment to this Agreement. The charges for added apparatus shall be the same as the charges for other Apparatus, unless agreed otherwise by the parties.

3. EF&R shall perform all service, inspection maintenance, testing and repairs in a competent and workmanlike manner, in compliance with applicable laws and regulations.

4. The City shall pay EF&R for maintenance, service and repairs as follows:

4.1. The City shall pay for annual preventative maintenance and periodic preventative maintenance: at $115 per hour in 2020 and $125 per hour in 2021.

4.2. The City shall pay for non-scheduled service and repairs at $115 per hour in 2020 and $125 per hour in 2021. This rate shall include maintenance of gas-powered equipment.

4.3. The City shall pay for emergency repairs at one hundred and fifty percent (150%) of the non-scheduled service and repairs rate, with a minimum charge for two (2) hours.

4.4. The City shall pay the rates in sections 4.1 and 4.2 above where the maintenance, service or repairs are performed during EF&R Regular Hours. If the City requests EF&R to perform maintenance, service or repair outside of EF&R Regular Hours, or EF&R must perform maintenance, service or repair outside of EF&R Regular Hours to meet a deadline or schedule of the City, the City shall pay one hundred

and fifty percent (150%) of the rates in sections 4.1 and 4.2 above, with a minimum charge for two (2) hours.

4.5. The parties, by their administrators identified in Section 8 of this Agreement, may agree in writing on or before July 1 of any year to adjust the rates of Section 4 to be effective on the subsequent January 1.

4.6. The City shall pay a $25 shop fee per Apparatus for annual preventative maintenance, periodic preventative maintenance and non-scheduled service and repair. The shop fee shall cover consumable goods used at the EF&R Shop (e.g. rags, brake cleaner, spray-lubricant, etc.).

4.7. The City shall pay for all fluids associated with inspection, maintenance, testing, service and repair. This charge for the fluids shall be EF&R's direct costs for fluids, plus fifteen percent (15%) administration fee.

4.8. The City may elect to have an EF&R contractor perform ladder and hose testing and stretcher maintenance for City Apparatus. EF&R's charge for this service shall be the actual cost to EF&R for the service (e.g. the contractor's charges to EF&R in 2017 was $0.23/ft. for fire hose and $2.50/ft for ladders). The City must elect to have EF&R's contractor perform this service no later than October of the year preceding the year in which the service will be performed.

4.9. EF&R shall apply Washington State Sales Tax to all of the City charges under this Agreement.

5. EF&R shall bill the City for charges for routine schedule testing, maintenance and repair, together with all hourly labor charges and costs for any parts purchased or supplied by EF&R and incurred during the preceding quarter. The City shall pay the bill within thirty (30) days of receipt.

6. This Agreement is effective January 1, 2020, notwithstanding its later execution, and shall remain in effect until December 31, 2021. The City may renew this Agreement for additional one-year terms by written notice given to EF&R no later than November 1, 2020 for the initial term and November 1 annually thereafter for any renewal term. EF&R may terminate this Agreement by written notice given to the City no later than November 1 of the year before the commencement of any one-year renewal term.

7. This Agreement expresses the entire understanding between the parties and may be amended only in writing, except as provided otherwise in Section 2.4 and Section 4.5 of this Agreement.

8. The following persons shall administer this Agreement for each party, until such a time as either party gives written notice to the other of a change:

FOR EF&R:	FOR THE CITY:
Jeff Clark	Steve Heitman
Fire Chief	Fire Chief
Eastside Fire & Rescue	City of Mercer Island, WA

BY THEIR SIGNATURES BELOW, the signors certify that they have the authority to sign this Agreement on behalf of their respective agency and agree to the terms of this Agreement.

_____	_____
Jeff Clark, Fire Chief Date	Steve Heitman, Fire Chief Date
Eastside Fire & Rescue	City of Mercer Island

APPENDIX A

Fire Apparatus and Equipment List

Type	Designator	Manufacturer	Year	Miles	Pump hours
Engine	E91	Pierce	2013	21511	173.3
	E92	Pierce	2008	40610	3482
	E93	Pierce	2008	48439	2845.4
	E94*	Seagraves	1993	94554	432.2
Midi pumper	M91	Pierce / GMC	2008	6417	108.4
	M92	Pierce / International	2016	3456	148
Rescue	R91	Braun / Ford	2014	3167	
Aid car	A91	Braun / Ford	2017	4810	
	A92	Braun / GMC	2011	52513	
	A93	Braun / Ford	2007	45534	

* E194 will be surplussed in July or so once the new Pierce Pumper is I/S

QUARTERLY/ANNUAL
MOBILE FIRE EMERGENCY VEHICLE INSPECTION REPORT

Inspection date _____

Fire department _____ Emergency vehicle no. _____

Emergency Vehicle

Manufacturer _____

Model _____

Serial no. _____

Hourmeter _____

Chassis

Make _____

Model _____

VIN _____

Odometer _____

Legend:
X =Acceptable visually, checked R = Requires repair or adjustment
U = Unsafe condition requires repair prior to use C = Corrected NA = Not applicable

CHASSIS INSPECTION

Engine and Cooling Systems

_____ Oil level and condition
_____ Oil leaks
_____ Coolant level
_____ Antifreeze protection
_____ Coolant additive level
_____ Fuel system for leaks
_____ Fuel system plumbing condition
_____ Power steering fluid level
_____ Power steering pump and plumbing
_____ Coolant hose condition and leaks
_____ Alternator mounting brackets
_____ Alternator connections
_____ Charging system output _____ volts
_____ Auxiliary cooler connections
_____ Battery condition and hold downs
_____ Battery cables and clamps
_____ Battery fluid level
_____ Battery terminal voltage _____ volts
_____ Chassis grounds and connections
_____ Starter motor cable condition
_____ Starter motor operation
_____ Fan mounting bolts and adjustment
_____ Fan shroud clearance and condition
_____ Fan clutch or shutters operation
_____ Air filter element condition
_____ Air intake tubes and hoses
_____ All belts condition and adjustment
_____ After-cooler or intercooler tubes and hoses
_____ Motor mount condition
_____ Radiator cap pressure

Comments on engine and cooling systems inspection _____

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FIGURE C.3(b) Quarterly/Annual Emergency Vehicle Inspection Report.

Chassis and Components

Fluid levels

_____ Lubricate chassis

_____ All fluid levels

Steering

_____ Steering linkage and tie rods

_____ Steering box mounting

_____ Steering system plumbing for leaks

_____ Manual steering box fluid level

Transmission

_____ Auto trans fluid level

_____ Auto trans mounting and condition

_____ Auto trans and plumbing for leaks

_____ Auto trans lockup system

_____ Manual trans oil level

_____ Manual trans mounting

_____ Manual trans for leaks

Fuel

_____ Fuel tank and plumbing for leaks

_____ Fuel tank mounting

Tires / Wheels

_____ Tire and wheel conditions

_____ Lug nuts for torque

_____ Tire tread depth Front _____ Rear _____

_____ Tire air pressure Front _____ Rear _____

Driveline

_____ Driveline U-joints and yokes

_____ Driveline carrier bearings

_____ Differential oil level and leaks

Front axle

_____ Front spring and shock condition

_____ Front wheel bearings and king pins

Rear axle

_____ Rear spring condition

_____ Rear spring torque tubes and shocks

_____ Axle flanges for leaks and tightness

_____ Frame rails and cross members

Brakes

_____ Brake condition (amount of material)

_____ Brake adjustment and operation

_____ Air brake valves and tanks

_____ Lubricate brake pedal pivot pin

_____ Drain air tanks and check air dryer

_____ Air brake lines and chambers

_____ Air brake leaks and buildup

_____ Hydraulic brakes for leaks

_____ Hydraulic brake components

_____ Hydro-vac operation and mounting

_____ Parking brake operation

Exhaust system

_____ Exhaust system and muffler

Comments on chassis and components inspection _____

_____

_____

_____

_____

FIGURE C.3(b) ***Continued***

Cab and Body

Cab

_____ Cab mounting and tilt mechanism
_____ Cab frame and sheet metal
_____ Cab hoist motor solenoid volt drop _____ volts
_____ Door mounting and latches
_____ Cab glass condition
_____ Cab seat condition and mounting
_____ Seat belt condition and mounting
_____ Steering wheel mounting and alignment
_____ Horn operation
_____ Heater and defroster operation
_____ Throttle controls and linkage
_____ Window operation
_____ Auto transmission shift controls
_____ Manual transmission shift controls
_____ Clutch pedal linkage
_____ Clutch pedal free play
_____ Windshield wipers and washers
_____ Mirror condition and mounting

Body

_____ Compartment door latches
_____ Compartment door and hinge condition
_____ Body compartment condition
_____ Step and auxiliary equipment condition

Comments on cab and body inspection _____

Cab and Body Electrical

_____ Headlights and high beams
_____ Parking and clearance lights
_____ Tail and stop lights
_____ Backup lights and alarm
_____ Turn signal and hazard operation
_____ Cab spot lights operation
_____ Auxiliary light operation
_____ Front warning lights
_____ Rear warning lights
_____ Front beacon lights
_____ Intersection warning lights
_____ Body deck lights
_____ Compartment lights
_____ Siren operation and mounting
_____ Siren solenoid voltage drop _____ volts
_____ Voltage drops of all solenoids

List solenoids and voltage drop below

Solenoid	Voltage Drop

Comments on cab and body electrical inspection _____

FIGURE C.3(b) ***Continued***

Line Voltage Inspection

_____ Power source
_____ Generator drive engine or power drivetrain
_____ Cord reels and receptacles
_____ Electrically driven equipment
_____ Electrical controls
_____ Output voltage _____ volts
_____ Output frequency _____ Hz

Comments on line voltage electrical inspection _____

Road and Operational Test

_____ Engine oil pressure
_____ Engine coolant temperature
_____ Tachometer operation
_____ Auto transmission shifting
_____ Clutch release and operation
_____ Manual transmission shifting
_____ Brake operation
_____ Drive line vibration
_____ Air compressor operation
_____ Air compressor governor setting
_____ Speedometer operation
_____ Shimmy or front end noises
_____ Clutch fan or shutter operation

Comments on road and operational test _____

PUMP AND WATER TANK INSPECTION

Pump manufacturer _____ Model _____ S/N _____
Pump location _____ Pump hours _____ Capacity _____

_____ Pump shift and indicator lights
_____ Automatic transmission lockup system
_____ Clutch disengagement and manual transmission
_____ Pump transmission shift cylinders or motor
_____ Pump transmission oil level and condition
_____ Pump panel tachometer and engine gauges
_____ Engine speed counter
_____ Pump panel electrical switches and panel light
_____ Master gauges for accuracy and operation
_____ Discharge gauges for accuracy and operation
_____ Water tank indicator system
_____ Pump

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FIGURE C.3(b) ***Continued***

_____ Pump plumbing
_____ High-pressure pump system
_____ Pressure control device operation and response time
_____ Transfer valve operation
_____ Intake relief operation
_____ Primer operation
_____ Dry vacuum test
Initial reading _____ in. vacuum
Leakage in 5 minutes _____ in. vacuum
_____ Primer motor solenoid voltage drop _____ volts
_____ Pump packing—adjust if necessary
_____ Mechanical seals for leaks
_____ Discharge and intake valves
_____ Valves, linkage, remote rods, and pivot points
_____ Drain valves
_____ Tank-to-pump and tank fill valves
_____ Auxiliary cooler
_____ Suction strainer
_____ Preconnect valves and plumbing
_____ Deck gun valve and plumbing
_____ Front or rear suction valves and plumbing and valves
_____ Auto-lube level and fluid condition
_____ Water tank mounting and integrity
_____ Booster reel mounting and operation
_____ Anodes in tank and pump
_____ Reel motor solenoid voltage drop _____ volts
_____ Pump mounting integrity
_____ Pump driveline U-joints, yokes and flanges

Comments on pump and tank inspection _____

FOAM PROPORTIONING SYSTEM INSPECTION

Foam system manufacturer _____ Model _____ S/N _____

_____ Instrumentation, gauges, and controls
_____ Strainer or filter
_____ Foam concentrate pump
_____ Lubricant level and condition
_____ Hydraulic pump
_____ Hydraulic system
_____ Hydraulic fluid tank mounting and integrity
_____ Foam concentrate tank mounting and integrity
_____ Foam eductor system, metering, and check valve

Comments on foam proportioning system inspection _____

FIGURE C.3(b) *Continued*

CLEAR FORM

PUMP PERFORMANCE TEST

Emergency vehicle number or designation _____ Year manufactured _____
Manufacturer _____ Model _____
Serial no. _____ Vehicle identification no. _____
Engine make _____ Model _____
Pump make _____ Model _____
Pump rated capacity _____ (gpm) (L/min) at _____ (psi) (kPa)
Speed check taken from _____ Ratio to engine _____
Test site location _____
Tests performed from ☐ Draft ☐ Hydrant
Suction hose size _____ (in.) (mm) Length _____ (ft) (m)

	At start of tests	At end of tests
Atmospheric pressure		
Air temperature		
Water temperature		
Elevation of test site		
Lift		

Governed engine speed _____ Actual maximum engine speed _____
Verify operation of pump shift indicator _____
Verify operation of pump engine control interlock at pump operator's panel _____
Maximum vacuum attained _____ Vacuum drop in 5 minutes _____
Time to prime pump _____
Pressure control device test:
Rise while pumping capacity at 150 psi _____
Rise while pumping capacity at 90 psi _____
Rise while pumping 50 percent capacity at 250 psi _____
Intake relief valve test results _____
Tank to pump water flow test _____ (gpm) (L/min)
Gauge accuracy _____ Flowmeter accuracy _____

Pump Test Results

	Capacity test	Overload test	200 psi test	250psi test
Duration				
Average nozzle pressure				
Corrected pressure				
Gallons per minute				
Average pump pressure				
rpm---engine				
rpm-pump				

Comments _____

FIGURE C.3(c) Pump Performance Test Form.

20-Minute Capacity Test

Layout_____ Nozzle size_____ Position of transfer valve _____

								Pump Intake		Pump Discharge		
Time	**Counter (if used)**	**rpm**	Tach	**Engine** Temperature	**Oil** Pressure	Voltage	**Automatic Transmission Temp (if** equipped)	**Apparatus** gauge	**Test** gauge	**Apparatus** gauge	**Test** gauge	Pitot/ **Flow**

5-Minute Overload Test

Layout_____ Nozzle size_____ Position of transfer valve _____

10-Minute 200 psi Test

Layout_____ Nozzle size_____ Position of transfer valve _____

10-Minute 250 psi Test

Layout_____ Nozzle size_____ Position of transfer valve _____

Person conducting the test _____

Representing _____

Signature_____ Date_____

AHJ representative _____ Date _____

FIGURE C.3(c) *Continued*