



TO: Board of Contracts and Awards
FROM: Paul Federighi, Interim Director, Information Technology
Tory Green, Fire Chief Deputy, Fire Department
Steve Taylor, IT Manager, Information Technology
COPY: City Council, City Manager, City Clerk, SBE Coordinator, LEAP Coordinator, and
Joe Parris, Finance/Purchasing
SUBJECT: Communication Facilities Fire Suppression Systems
Request for Bids Specification No. IT18-0069F – April 3, 2018
DATE: March 14, 2018

RECOMMENDATION SUMMARY:

The Information Technology and Fire Departments recommend a contract be awarded to Suppression Systems, Inc., Fife, Washington, for the purchase and installation of fire suppression systems in the amount of \$226,300.00, plus any applicable taxes.

STRATEGIC POLICY PRIORITY:

- Strengthen and support a safe city with healthy residents.

This project ensures the City’s radio communication infrastructure and Emergency Coordination Center are not only able to suppress fires, but be alerted before a fire starts in critical locations to ensure the safety and security of its citizens and staff.

BACKGROUND:

In 2016, the Information Technology Department contracted with an engineering firm to assess the City’s radio communication infrastructure buildings. An outcome of that assessment was a list of recommended maintenance to complete over a 10 year period to increase the longevity of the City’s infrastructure; one of those items was the addition of fire suppression. One of the buildings used to house the radio infrastructure is also used by the Tacoma Fire Department. Our two departments decided to work together on this project to not just increase the longevity of the radio communication infrastructure, but to also improve the current fire suppression systems for Tacoma Fire’s Emergency Coordination Center (ECC).

ISSUE: This project will add an early warning smoke detection signaling system to three critical rooms within the ECC as well as increase the number of rooms currently protected by a clean agent fire suppression system from two to four and update the clean agent deployed in all rooms to a product with the highest safety margins and the lowest environmental impact. This project will also add clean agent fire suppression to each of the City’s six radio communication buildings. By standardizing our project requirements and utilizing equipment already installed in the ECC building delivered an overall cost savings for the project.

ALTERNATIVES: Alternatively, status quo, would mean leaving the currently inadequate fire suppression at the ECC building as is and not installing recommended fire suppression at the radio communication buildings. Cost reduction could be achieved by omitting the early warning smoke detection capabilities of the project. However, proceeding with the project as bid is



preferable to the alternatives because it increases the safety of City staff at the ECC and creates greater protection for the City’s radio communication network that helps the City keep its citizens safe. The costs to replace equipment in the case of a fire at any of these locations currently without fire suppression far exceeds the costs to install the fire suppression systems.

COMPETITIVE SOLICITATION:

Request for Bids Specification No. IT18-0069F was opened March 13, 2018. Five (5) companies were invited to bid in addition to normal advertising of the project. One submittal was received.

<u>Respondent</u>	<u>Location</u>	<u>Submittal Amount</u>
Suppression Systems, Inc.	Fife, WA	\$ 226,300.00

Pre-bid Estimate: \$220,000.00

The recommended award is 2.86 percent above the pre-bid estimate.

CONTRACT HISTORY: New Contract

SUSTAINABILITY: The decision made to determine the clean agent used in the fire suppression system was based on the safety and sustainability of the product selected. Novec 1230 has a large safety margin of 67-122%, which safeguards City staff in the event they are in the room when the fire suppression deploys. Novec 1230 also has an Ozone Depletion rate of 0.0. The 3M warranty additionally provides the City 20 years of protection. If at any time within 20 years from the installation date, the Novec 1230 product is banned from or restricted in use as a fire protection agent due to its environmental properties they will refund the purchase price of the fluid.

SBE/LEAP COMPLIANCE: Not applicable.

FISCAL IMPACT:

EXPENDITURES:

FUND NUMBER & FUND NAME *	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
5540 Radio Communications Fund	822100	5600000	\$189,575.00
0010 Fire General Fund	259000	5642500	\$18,362.50
1090 Fire Special Revenue Fund	814700	5642500	\$18,362.50
TOTAL			\$226,300.00 plus tax

* General Fund: Include Department



REVENUES:

FUNDING SOURCE	COST OBJECT (CC/WBS/ORDER)	COST ELEMENT	TOTAL AMOUNT
5540 Radio Communications Fund	822100	4345380 (Internal Assessments)	\$113,745.00
5540 Radio Communications Fund	822100	4345382	\$62,559.75
5540 Radio Communications Fund	822100	4345384	\$13,270.25
0010 Fire General Fund	259000		\$18,362.50
1090 Fire Special Revenue Fund	814700	4338110	\$18,362.50
TOTAL			\$226,300 plus tax

FISCAL IMPACT TO CURRENT BIENNIAL BUDGET: It is anticipated the City will spend 95% of the overall project costs out of the current biennial budgets listed above. The remaining 5% being held for retainage is estimated to be spent out of the 2019/2020 biennial budgets.

ARE THE EXPENDITURES AND REVENUES PLANNED AND BUDGETED? Yes

IF EXPENSE IS NOT BUDGETED, PLEASE EXPLAIN HOW THEY ARE TO BE COVERED.