



REQUEST FOR BOARD ACTION

ITEM NO. 15

DATE OF MEETING: May 2, 2016

REQUESTED BY: Erik Harvey, Director, ITS Department

SHORT TITLE: Approval of a Purchase Order to BFPE for Data Center(s) Fire Suppression System in the amount of \$25,000.00.

BACKGROUND: Currently, Pender County does not have a fire protection system in place to protect its Data Centers. A fire suppression system will mitigate fire related risks associated with the Data Centers. The County's Data Centers centralize the County's IT core operations and equipment, and stores, manages, and disseminates departmental data. Data centers house the County network's most critical systems and are vital to the continuity of daily operations.

The Fire Suppression System is a clean agent system that will discharge as a gas, reaching into all areas of the hazard area leaving no residue to damage sensitive equipment or require costly cleanup. The system is designed to fully discharge the fire suppression agent in the protected area(s) within 10 seconds after receiving the actuation signal. The rapid action catches a fire in its incipient stages before it has a chance to grow or cause significant damage. Clean agent suppresses fire by "flooding" the protected area with a 7% concentration of the agent. Instead of spraying the entire area the clean agent actively attacks the fire itself; breaking down the fire's molecular structure. This enables the room to get back to normal business operations as soon as possible after a fire.

The rooms will be protected and consist of an agent storage cylinder, discharge nozzles, control heads, piping, smoke detection, manual release devices, and notification devices. The design shall be a total flood system that will protect the volume of the hazard area only, no associated raised floors or above ceiling protection is covered in this proposal unless noted otherwise with an optional cost. The system design will be based on a self-recirculation type hvac system with supply and returns in the protected space. The design work includes the submittal of drawings sealed by a licensed fire protection engineer for the required fire suppression permit. All permit fees, final testing, and owner training are included in price.

SPECIFIC ACTION REQUESTED: To approve a Purchase Order to BFPE in the amount of \$25,000.00. This expenditure has been budgeted in the FY 15-16 Budget Ordinance and will be taken from the following line item:

IT Contracted Services: 445-407400