



Scope of Work: SOW Separation, integration and commissioning of the Saramacca Fire protection system

PROJECT NO.	DATE SUBMITTED
Saramacca Fire protection system.	08/01/2025 (dd/mm/yyyy)
PROJECT OBJECTIVES	
To upgrade our current Fire suppression system to NFPA standards we will have to separate the existing service-water line from our fire suppression system and have the butterfly valves integrated into the system.	

**Step 1. Project Deliverables**

TASK NO.	DESCRIPTION
1	Integration of the butterfly valves on our current system.
2	Separation and construction of the new service -water line.
3	Commissioning of the fully integrated Fire suppression system.

**Step 2. List of project Tasks**

Work breakdown structure (WBS) attached	NO	YES	X
<i>Provide link, if applicable.</i>	<b>Engineering drawings attached.</b>		

TASK NO.	DESCRIPTION	FOR DELIVERABLE NO. ... ENTER TASK #
1	<p><b>Integration of butterfly valves.</b></p> <p><b>The Service includes:</b></p> <ul style="list-style-type: none"> <li>• Supply and Installation of the mini modules in plastic boxes.</li> <li>• Installation of the boxes at the Fire Container, Complex Building and Truck Shop locations.</li> <li>• Integration of the new boxes with mini modules into the existing SLC loop.</li> <li>• Dry contact connecting of each valve into the mini module.</li> <li>• Testing.</li> </ul>	



2

**Separation of the service water line and fire suppression system.  
The Service includes:**

- **Works in new 20ft container.**
  - Rehabilitation and mechanical painting of pipelines.
  - Fabrication and painting of pipe supports.
  - Moving with crane and fixing of the container with bolts anchored to a concrete block.
  - Container mechanical repairs.
  - Piping assembly for the new water line
  - Disconnection of the tank from the hydro pneumatic tank.
  - transfer of the hydro pneumatic tank to the new container
  - Disconnection and reconnection of the existing industrial water piping to the new industrial water line.
  - Disconnection and reconnection of fire jockey pump suction line to existing 6" fire main.
  
- **Works inside truck shop.**
  - Connection in existing 2" iron pipe on the left side of the Truck Shop building.
  - Disconnection and blocking of 2" pipe on the left side of the Truck Shop building
  - Installation of 1" industrial water pipe and fittings on the left side of the Truck Shop building for 3/4" and 1" hose feed.
  - Disconnecting and locking 3/4" hose from fire hose line.
  - Reconnection of the 3/4" hose to the new industrial water line on the left side of the Truck Shed building.
  - Disconnection and locking of 1" hose from fire hose line.
  - Reconnection of 1" hose to the new industrial water pipe on the left side of the Truck Shed building.
  - Installation of 1" iron pipe on the right side of the Truck Shop Building
  - Disconnection and blocking of 1 1/2" pipe on the right side of the Truck Shop building.
  
- Connection of a new 2" HDPE pipe from the wash bay to the fuel tanks (hose from cabinet No. 4).
  
- Replace the flexible pipe, which carries the pressure to the new Tornatech panel in the fire container, with galvanized iron or rigid bronze pipe.
- Commissioning of mechanical equipment and hydraulic testing.



	<ul style="list-style-type: none"> <li>-Testing of the fire pump in automatic mode</li> <li>-Installation of 1"industrial water pipe" and connections on the right side of the Truck Shop building for 3/4" and 1" hose supply.</li> <li>-Disconnection and locking of the 3/4" hose from the fire water pipe.</li> <li>-Reconnection of the 3/4" hose to the new industrial water pipe on the right side of the Truck Shed.</li> <li>-Disconnection and locking of the 1" hose from the fire water pipe.</li> <li>-Reconnection of 1" hose to the new industrial water pipe on the right side of the Truck Shed building.</li> <li>• <b>WORK IN WASH BAY AND NEAR FIRE CABINET NO. 4</b> <ul style="list-style-type: none"> <li>-Connection of the new 2" HDPE pipe to the existing pipe in the wash bay.</li> <li>-Connection of a new 2" HDPE pipe from the wash bay to the fuel tanks (hose from cabinet No. 4).</li> </ul> </li> <li>• <b>WORK ON EXISTING FIRE CONTAINER.</b> <ul style="list-style-type: none"> <li>-Replace the flexible pipe, which carries the pressure to the new Tornatech panel in the fire container, with galvanized iron or rigid bronze pipe.</li> <li>Commissioning of mechanical equipment and hydraulic testing.</li> <li>Testing of the fire pump in automatic mode.</li> </ul> </li> <li>• <b>ELECTRICAL WORKS.</b> <ul style="list-style-type: none"> <li>-Assembly of Unistrut rails for equipment mounting.</li> <li>-Install lighting with 120VAC circuits.</li> <li>-Install 480VAC nema switchgear.</li> <li>-Wire 480 VAC circuits.</li> <li>-Install circuit breaker in existing 120 VAC distribution panel in fire container.</li> <li>-Wire 110 VAC line from fire container to new container.</li> <li>-Mount and connect new panel to control Jockey pump.</li> <li>-Disconnect and reconnect the filter board.</li> <li>-480VAC connection to Jockey pump.</li> <li>-480VAC connection in the MCC Electrical Room.</li> </ul> </li> </ul>	
3	<ul style="list-style-type: none"> <li>• <b>Commissioning of the fully integrated Fire suppression system.</b> <ul style="list-style-type: none"> <li>-Commissioning documentation.</li> <li>-As built drawings.</li> </ul> </li> </ul>	



**Step 3. Out of Scope**

This project <b>will NOT accomplish or include</b> the following:	<ul style="list-style-type: none"> <li>• Supplying and placement of the 20ft container.</li> </ul>
---	--

**Step 4. Project outcomes**

NO.	OUTCOMES
1	Fully independent service water line.
2	Fully integrated and commissioned Fire protection system.

**Step 5. Project Constraints**

<b>PROJECT START DATE</b>	
<b>PROJECT END DATE</b>	
<b>LIST ANY HARD DEADLINE(S)</b>	
<b>LIST OTHER DATES / DESCRIPTIONS OF KEY MILESTONES</b>	
<b>FACILITIES TO BE PROVIDED BY RGM</b>	<ul style="list-style-type: none"> <li>• Lodging.</li> <li>• Food supply.</li> <li>• Fuel for the contractor LV.</li> </ul>
<b>FACILITIES TO BE PROVIDED BY CONTRACTOR</b>	<ul style="list-style-type: none"> <li>• Light vehicle for transferring to and from the work site.</li> <li>• Insurance</li> <li>• Project supervision</li> <li>• Safety procedures</li> <li>• All Personal Protective Equipment</li> </ul>



<b>QUALITY OR PERFORMANCE CONSTRAINTS</b>	<ul style="list-style-type: none"><li>• Project will be monitored closely by projects team.</li></ul>
<b>EQUIPMENT / PERSONNEL CONSTRAINTS</b>	<ul style="list-style-type: none"><li>• Light vehicle for transferring to and from the work site.</li></ul>
<b>REGULATORY CONSTRAINTS</b>	