



Vermilion Bay Water Treatment & Distribution Systems

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Problem: Failure of Chemical Feed Systems

Contact Info: Operator-In-Charge (OIC)

Procedures:

1. Notify the OIC.
2. Troubleshoot and determine the cause of the chemical feed system failure.

NOTE: Wear full protective PPE whenever working on or around any chemical feed system. Safely relieve pressure before disconnecting any fittings.

Possible causes include:

- a) Mechanical failure - pump or pump component failure (i.e. ruptured diaphragm, faulty solenoid, check valves). Spare parts for resolving the most common mechanical failures are available at the water treatment facility or may be available in other projects.
- b) Electrical failure - power supply and/or 4-20 mA signal failure. 4-20 mA signal failure may require the pumps to be operated manually. Caution must be used when working on or around electrical systems.
- c) Physical obstruction- if mechanical and electrical systems are normal, inspect and clean the suction line, pump head, discharge line and injection point to remove any blockages or restrictions in the chemical feed lines.

Note: All pumps have a standby pump in place to automatically take over should a chemical feed pump fail. In addition, there are also replacement chemical feed pumps available for all applications if needed.