

WP 04-FP2201

Revision 2

Electric Fire Pump Emergency Start

Technical Procedure

EFFECTIVE DATE: 06/24/09

Randy Britain
APPROVED FOR USE

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INTRODUCTION

This procedure provides the steps necessary for operating the Fire Water System Electric Pump under abnormal conditions (Electric Fire Water Pump will not Auto start, or start in Manual Mode) at the Waste Isolation Pilot Plant (WIPP).

REFERENCES

BASELINE DOCUMENTS

- DOE/WIPP-07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP-07-2273, *Waste Isolation Pilot Plant Technical Safety Requirements*
- NFPA 20, *Centrifugal Fire Pumps*
- Firetrol FTA1000 Fire Pump Controller
- 45-S-012-W, Water Pumphouse 456 Fire Water Pumping System/Sprinkler System Piping & Instrument Diagram

REFERENCED DOCUMENTS

- WP 04-AD3001, Facility Mode Compliance

PRECAUTIONS AND LIMITATIONS

- This procedure does not allow for restoration to operable status. Appropriate repairs and LCO Surveillances (see WP 04-AD3001) must be completed prior to a declaration of operability.
- Failure of the electric fire pump to start in Auto causes it to be inoperable. If the diesel fire pump is also inoperable, verify that the Waste Handling Building is in **Standby Mode** or Facility Shift Manager has entered the required actions for **LCO 3.1.1**.

PERFORMANCE

1.0 ELECTRIC FIRE PUMP EMERGENCY START

1.1 Perform the following at Controller Panel 456-CP-008-01:

1.1.1 Push Emergency Run mechanism.

1.1.2 Turn mechanism counterclockwise or clockwise to lock mechanism in either RUN position.

CAUTION

To avoid damage to the pump, packing gland supply valves are designed so that when adjusted properly, a slight amount of leakage is present for proper cooling and lubrication.

1.2 Verify packing gland has slight amount of leakage.

2.0 ELECTRIC FIRE PUMP SHUTDOWN

2.1 Perform the following at Controller 456-CP-008-01:

2.1.1 Open local disconnect switch by placing it in the OFF position.

2.1.2 Turn EMERGENCY RUN mechanism to OFF.

2.1.3 Close local disconnect switch.