

# WP 04-FP2010

Revision 3

## Alternate Fire Water Supply Lineup

Technical Procedure

EFFECTIVE DATE: 06/24/09

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APPROVED FOR USE

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## INTRODUCTION

This procedure may be used to support maintenance activities on the Water Tanks or in case the domestic water must be used for fire fighting purposes.

There are no records generated by the performance of this procedure.

## REFERENCES

### BASELINE DOCUMENTS

- DOE/WIPP-07-3372, *Waste Isolation Pilot Plant Documented Safety Analysis*
- DOE/WIPP-07-3373, *Waste Isolation Pilot Plant Technical Safety Requirements*
- Hazardous Waste Facility Permit, Waste Isolation Pilot Plant, Permit # NM489013908 TSDf, Issued by New Mexico environment Department
- NFPA 20, *Centifugal Fire Pumps*
- NFPA 25, *Inspection, Testing, and Maintenance of Water-Based Fire Protection System*
- 45-F-010-W, Water Pumphouse 456, Domestic Water Pumping System P&ID
- 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

- During performance of maintenance activities, the South Fire Water Tank level must not go below 105,000 gallons without verifying that the Waste Handling Building (WHB) is in **Standby Mode** or **Limiting Conditions of Operation (LCO) 3.1.1** has been entered.
- The South Fire Water Tank level per the Hazardous Waste Facility Permit (HWFP) states a minimum of 144,000 gallons (80%) must be maintained.
- Fire fighting activities constitute an Emergency Action and the directions by the On-Scene Incident Commander must be followed.
- **IF** this procedure is performed in support of fire fighting activities, **THEN** ensure restoration of normal fire water supply is performed in compliance with any potential recovery plan.

**PERFORMANCE**

## 1.0 ALTERNATE FIRE WATER SUPPLY LINEUP

- 1.1 Verify domestic water pumps are secure.
- 1.2 When fire water tank level is 50%, perform the following:
  - 1.2.1 Verify FW-456-V-002 and FW-456-V-078 are shut.
  - 1.2.2 Install spool piece between FW-456-V-002 and FW-456-V-078.
- 1.3 When fire water tank level is 10%, perform the following:
  - 1.3.1 Open FW-456-V-002 and FW-456-V-078.<sup>1,2</sup>

## 2.0 RESTORATION OF NORMAL FIRE WATER SUPPLY

- 2.1 Close FW-456-V-002 and FW-456-V-078.
- 2.2 Remove spool piece.
- 2.3 Refill tanks.
- 2.4 Perform Surveillance for **LCO 3.1.1** and **SR 4.1.1.9** each shift to verify that there is greater than 105,000 gallons in the South Fire Water Tank. (Surveillance Data Sheet EA04AD3001-SR9.)
- 2.5 After notification from Industrial Safety that water sample is acceptable, place domestic water pumps back in service.