

# WP 04-PC3017

Revision 2

## Essential Plant Communication Systems Testing

Technical Procedure

EFFECTIVE DATE: 08/31/00

Hardy W. Bellows

PRINTED NAME

APPROVED FOR USE

**TABLE OF CONTENTS**

INTRODUCTION ..... 3

REFERENCES ..... 3

PRECAUTIONS AND LIMITATIONS ..... 3

PERFORMANCE ..... 4

    1.0 PUBLIC ADDRESS ALARM SYSTEM TEST ..... 4

    2.0 UNDERGROUND EVACUATION ALARM SYSTEM TEST ..... 5

    SITE NOTIFICATION SYSTEM TEST ..... 6

    3.0 ESSENTIAL MINE PHONE TEST ..... 6

    4.0 MANAGEMENT OF RECORDS ..... 7

Attachment 1 - Essential Plant Communication Systems Test Record ..... 8

Attachment 2 - Responsibilities ..... 9

## INTRODUCTION

This procedure provides instructions for monthly testing of essential communication systems as identified in Hazardous Waste Facility Permit, Waste Isolation Pilot Plant, Permit No. NM4890139088-TSDF, issued by the New Mexico Environment Department, October 27, 1999. Essential Plant Communications Systems Test Record generated by the performance of this procedure is a quality record.

## REFERENCES

### BASELINE

- ! CFR 30, Part 57.18013
- ! CFR 30, Part 57.20032
- ! CFR 40, Part 265.15
- ! CFR 40, Part 265.33
- ! Hazardous Waste Facility Final Permit, Waste Isolation Pilot Plant, Permit No. NM4890139088-TSDF, issued by the New Mexico Environment Department, October 27, 1999
- ! DOE/WIPP 91-005
- ! MP 5.16, WIPP Building Landlord Program
- ! WIPP Drawing, 73-E-001-W, Underground Utilities Evacuation Warning Layout

### REFERENCED

- ! WP 13-QA3003, Corrective Actions Program

## PRECAUTIONS AND LIMITATIONS

- 2.0 If a required inspection goes delinquent, perform the following:
  - 2.1 Immediately notify RCRA permitting of the delinquent inspection.
  - 2.2 Schedule and complete the inspection.
  - 2.3 Document the following in a letter to RCRA Permitting within five working days:

- ! The schedule for inspection
  - ! The reason(s) why the inspection was not performed
  - ! Any measures taken to offset negative impacts resulting from not performing the inspection
  - ! Actions to prevent further delinquencies
- 2.4 RCRA Permitting, **GO TO** WP 13-QA3003, Corrective Actions Program and determine if a CAR is required.

## PERFORMANCE

---

### NOTE

This procedure is performed by the Central Monitoring Room Operator (CMRO) at the Public Address (PA) unless otherwise specified.

---

## 1.0 PUBLIC ADDRESS ALARM SYSTEM TEST

- 1.1 Approximately five minutes prior to performing this test, inform site personnel of the following on the Public Address (PA) system, Mine Phone and Site Notification System (SNS)
- ! In approximately five minutes a test of the alarm functions of the Public Address system will be performed.
  - ! Repeat announcement.
- 1.2 After five minutes has elapsed, inform site personnel of the following on the PA, Mine Phone, SNS:
- ! The following is a test of the alarm functions of the Public Address System. Disregard PA alarms until the completion of this test.
  - ! Repeat announcement.
  - ! The following is a test of the INTRO ALARM.
- 1.3 Verify the Page buttons are illuminated.
- 1.4 Press and release the INTRO button.
- 1.5 **WHEN** INTRO alarm has sounded for more than five seconds, **THEN** perform the following:
- 1.5.1 Silence the alarm by pressing the CLEAR button.

- 1.6 Verify CLEAR indicator light is illuminated.
- 1.7 Verify by contacting Underground Facility Technician (UFT) that INTRO alarm sounded in the underground.
- 1.8 Inform site personnel of the following on the PA, Mine Phone, and SNS:
  - ! The following is a test of the SITE EVACUATION ALARM.
  - ! Repeat announcement.
- 1.9 Press and release the EVAC button.
- 1.10 **WHEN** EVAC alarm has sounded for more than five seconds, **THEN** perform the following:
  - 1.10.1 Silence the alarm by pressing the CLEAR button.
- 1.11 Verify CLEAR indicator light is illuminated.
- 1.12 Disable Site paging by pressing the RESET button.
- 1.13 Verify by contacting UFT the EVAC alarm sounded in the underground.
- 1.14 Record the performance of this subsection on Attachment 1, Essential Plant Communication Systems Test Record.

## **SIGN-OFF REQUIRED**

### 2.0 UNDERGROUND EVACUATION ALARM SYSTEM TEST

- 2.1 Inform underground personnel of the following on the PA and Mine Phone:
  - ! The following is a test of the Underground Evacuation Alarms.
- 2.2 Rotate EVAC hand switch to EVAC and hold for >5 seconds, then release.
- 2.3 **WHEN** EVAC alarm has sounded more than five seconds, **THEN** perform the following:
  - ! Rotate EVAC hand switch to RESET and release.
- 2.4 Verify by contacting UFT that strobe lights illuminate in the underground.
- 2.5 Direct Salt Hoist Operator to rotate MINE EVACUATION ALARM switch to ON and hold >5 seconds, then release.

- 2.6 Direct Salt Hoist Operator to rotate MINE EVACUATION ALARM SWITCH to OFF, then release.
- 2.7 Verify by contacting UFT that strobe lights illuminate in the underground.
- 2.8 Direct Waste Hoist Operator rotate MINE EVACUATION ALARM switch to ON and hold >5 seconds, then release.
- 2.9 Direct Waste Hoist Operator to rotate MINE EVACUATION ALARM switch to OFF, then release.
- 2.10 Verify by contacting UFT that strobe lights illuminate in the underground.
- 2.11 Inform site personnel of the following:
  - ! This completed the test of the Public Address System, regard all further alarms as valid.
  - ! Repeat announcement.
- 2.12 Record the performance of this subsection on Attachment 1, Essential Plant Communications Systems Test Record.

### **SIGN-OFF REQUIRED**

#### **SITE NOTIFICATION SYSTEM TEST**

- 2.13 Initiate the Site Notification System (SNS) with the following announcement:
  - ! This is a test of the Site Notification System. Please report any problems to Emergency Management.
  - ! Repeat announcement.
- 2.14 Record the performance of this subsection on Attachment 1.

### **SIGN-OFF REQUIRED**

#### **3.0 ESSENTIAL MINE PHONE TEST**

- 3.1 Perform and record the results of the following for each underground essential Mine Phone as listed on Attachment 1.
  - 3.1.1 UFT page CMRO.
  - 3.1.2 UFT verify understandable voice communication with CMRO.
  - 3.1.3 CMRO verify understandable voice communication with UFT.
  - 3.1.4 CMRO page UFT at the same location.

3.2 Record the performance of this subsection on Attachment 1.

**SIGN-OFF REQUIRED**

3.3 Perform and record the results of the following for each surface essential mine phone as listed on Attachment 1.

3.3.1 Facility Operations Technician (FOT) page CMRO.

3.3.2 FOT verify understandable voice communication with CMRO.

3.3.3 CMRO verify understandable voice communication with FOT.

3.3.4 CMRO page FOT at the same location.

3.4 Record the performance of this subsection on Attachment 1.

**SIGN-OFF REQUIRED**

3.5 Forward the completed test record to the Facility Operations Manager/Facility Shift Manager (FOM/FSM) for validation.

**4.0 MANAGEMENT OF RECORDS**

All records produced during the implementation of this procedure are RCRA operating records and must be maintained in accordance with the respective department's RIDS. Final disposition after facility closure will be in accordance with the RIDS. Record retention is automatically extended by any enforcement action involving these records.

### Attachment 1 - Essential Plant Communication Systems Test Record

Step 1.14	PA Alarm System test announcements made	/_____ Initials/Time		
Step 2.12	Underground Evacuation Alarm System test announcements made.	/_____ Initials/Time		
Step 2.14	SNS test announcement made.	/_____ Initials/Time		
Mine Phone Location	Underground to CMR Page	Voice Communications Understandable	CMR to Underground Page	
S1000 Assembly Area				/_____ Initials/Time
S1950 Assembly Area				/_____ Initials/Time
S550 Watch station				/_____ Initials/Time
WH Shaft Station Assembly Area				/_____ Initials/Time
SH Shaft Station Assembly Area				/_____ Initials/Time
Step 3.2	Essential Underground Mine Phone Test - Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			/_____ Initials/Time
Mine Phone Location	Surface to CMR Page	Voice Communication Understandable	CMR to Surface Page	
Lamp Room				/_____ Initials/Time
FSM Desk				/_____ Initials/Time
Mine Rescue Room				/_____ Initials/Time
EOC				/_____ Initials/Time
Step 3.4	Essential Surface Mine Phone Test - Check if satisfactory: Otherwise, record deficiency and corrective action taken in comments section.			/_____ Initials/Time
Comments: _____				

Persons initialing for Step completion in this procedure, complete the following:

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Print Name Initials Date

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Print Name Initials Date

RECORD VALIDATION:

\_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_  
Print Name Signature Initials Date



## Attachment 2 - Responsibilities

- 1.0 Building landlords are responsible for submitting Action Requests for deficiencies noted during PA tests.
- 2.0 Emergency Management section is responsible for noting and correcting Site Notification System (SNS) deficiencies.
- 3.0 The FSM is responsible for administering these tests on a monthly basis. The PA, Evacuation, and SNS tests **SHALL** be performed during normal work hours.