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1.0 PURPOSE AND SCOPE

1.1 Purpose

This procedure provides instructions for emergency shutdown of 241-AZ-702 Ventilation Building vent system.

1.2 Scope

This procedure involves 241-AZ-702 Ventilation Building vent system.

2.0 INFORMATION

NONE

3.0 PRECAUTIONS AND LIMITATIONS

3.1 Personnel Safety

3.1.1 Personnel trained in the operation of breakers and disconnects will wear the following PPE as a minimum:

- Hearing protection
- Non melting (untreated natural fiber) pants and long-sleeved shirt
- Safety glasses
- Leather or insulating gloves.

4.0 PREREQUISITES

4.1 Performance Documents

The following documents may be needed to perform this procedure:

- Drawing H-14-030007 Sheet 3.
5.0 PROCEDURE

Special Instructions

This procedure is to be performed only if so directed by Shift Manager/BED.

As long as this procedure is reviewed after completing Attachment 1, WRPS Conduct of Operations allows performance of this procedure using only Attachment 1 and Figure 1. This assures no required actions were overlooked.

5.1 Emergency Shutdown of 241-AZ-702 Ventilation Building Vent System

5.1.1 DIRECT personnel to exit filter rooms.

5.1.2 WAIT until all personnel have exited filter rooms, THEN

SECURE filter rooms by ensuring all doors are closed and locked.

5.1.3 PROCEED to MCS graphic screen No. 20 AND

PERFORM the following:

5.1.3.1 PLACE “standby exhaust fan” (AZ702-K3-5-1A or AZ702-K3-5-1B) in MANUAL.

5.1.3.2 PLACE “operating exhaust fan” (AZ702-K3-5-1A or AZ702-K3-5-1B) in MANUAL.

5.1.3.3 SHUTDOWN “operating exhaust fan” (AZ702-K3-5-1A or AZ702-K3-5-1B).

5.1.4 PROCEED to MCS graphic screen No. 19 AND

ENSURE Control Room air conditioner AZ702-K2-6-1 is shutdown.
5.1 **Emergency Shutdown of 241-AZ-702 Ventilation Building Vent System** (Cont.)

NOTE - Panelboard 16 (PP-16) is located in stack monitoring room.

5.1.5 **IF** MCS fails to shutdown system, **ENSURE** personnel trained in the operation of breakers and disconnects dons PPE (refer to Section 3.1).

5.1.5.1 **PROCEED** to Panelboard 16 (PP-16) AND **POSITION** the following circuit breakers to OFF.

- **No. 3 AZ702-K2-6-1 air conditioner**
- **No. 1 AZ702-K3-5-1A exhaust fan**
- **No. 4 AZ702-K3-5-1B exhaust fan.**

5.1.5.2 **CONFIRM** exhaust stack flow drops to zero.

5.1.5.3 **CONFIRM** both exhaust fans and air conditioner have shutdown.

5.1.5.4 **IF** exhaust fan(s) are still operating **PROCEED** to filter room.

   a. **OPEN** local disconnect switch(s).

   b. **CONFIRM** both exhaust fans have shutdown.

5.1.6 **NOTIFY** Shift Manager/BED 241-AZ-702 Ventilation Building vent system is shutdown.

5.1.7 Shift Manager/BED **NOTIFY** Environmental On-Call in compliance with TFC-ESQH-ENV_FS-C-01 that 241-AZ-702 Ventilation Building vent system is shutdown.

5.1.8 Shift Manager/BED **NOTIFY** Health Physics organization that 241-AZ-702 Ventilation Building vent system is shutdown.

5.2 **Records**

No records are generated during the performance of this procedure.
**Emergency Shutdown of 241-AZ-702 Ventilation Building Vent System**

**Attachment 1 – 241-AZ-702 Ventilation Building Vent System Emergency Shutdown Logic Diagram**

- Shift Manager/BED decide to shutdown Ventilation Building Vent System
  - **DIRECT** personnel to exit filter room
  - **WHEN** all personnel have exited filter room **CLOSE** and **LOCK** all filter room doors
  - At MCS graphics screen No 20, **PLACE** standby exhaust fan (AZ702-K3-5-1A or AZ702-K3-5-1B) in MANUAL
  - At MCS graphics screen No 20, **PLACE** operating exhaust fan in MANUAL and **SHUTDOWN** operating exhaust fan.
  - At MCS graphics screen No 19, **ENSURE** air conditioning unit AZ702-K2-6-1 is shutdown

- **Did system shutdown from MCS?**
  - **No** → **DON** appropriate PPE
  - **Yes** → **GO TO** panelboard PP-16 in Stack Monitoring Room and **SWITCH OFF** the following circuit breakers
  - No 3 AZ702-K2-6-1
  - No 1 AZ702-K3-5-1A
  - No 4 AZ702-K3-5-1B

- **CONFIRM** exhaust stack flow reduces to zero
- **CONFIRM** exhaust fans are shutdown

- **A**
- **B**
- **Yes** → **Did system shutdown?**
  - **No**
Attachment 1 – 241-AZ-702 Ventilation Building Vent System Emergency Shutdown Logic Diagram (Cont.)

NOTIFY Shift Manager/BED of System status

POSITION local disconnect switch(s) in filter room to OFF

Do not stand directly in front of electrical breakers when operating.
Emergency Shutdown of 241-AZ-702 Ventilation Building Vent System

Figure 1 - 241-AZ-702 Ventilation Building Floor Plan