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Rev. 3
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SP.485A

REFUELING INTERVAL, SPECIAL FREQUENCY CONTROL ROOM/
TECHNICAL SUPPORT CENTER ESSENTIAL HVAC SYSTEM ACTUATION
BY RAD MONITORS AND BY CHLORINE DETECTORS TRAIN A

1.0 PURPOSE

This SP is required each refueling interval or once every 18 months (whichever occurs first), after HEPA or carbon filter replacement, following painting, fire, or chemical release or after structural maintenance (See Tech Spec 4.10.1B).

- 1.1 To verify that on a High Radiation signal (alert alarm), the normal system is automatically isolated and that the Emergency Filtering System operates. (Tech Spec 4.10.1B.5).
- 1.2 To verify that on a toxic gas (ammonia excluded) isolation test signal, the system automatically switches into the isolation mode of operation with flow thru the HEPA filters and charcoal adsorber banks. (Tech Spec 4.10.1B.6).
- 1.3 To verify that on a temperature rise detected by TE 54703 (located in computer room) Essential HVAC Train A will start.
- 1.4 To verify that on a detection of high humidity by ME 54701 the relative humidity heater is energized.

2.0 LIMITS AND PRECAUTIONS

- 2.1 Do not start units more than three (3) times in one hour.
- 2.2 Do not interfere with normal activities in the Control Room and TSC during the performance of this test.

3.0 PREREQUISITES

- 3.1 Personnel performing this procedure are briefed in the content of this procedure and the use of the equipment used in its performance.
- 3.2 Normal air handling unit AH-A-1 in operation.
- 3.3 Normal Air Conditioning System AH-A-1 is in service.

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PREREQUISITES (Continued)

3.4 HVAC Filtration Unit Train A or B is in standby.

3.5 No special plant condition is required.

4.0 SPECIAL TOOLS/EQUIPMENT

4.1 Chlorine bleach, 2 ounces or more

4.2 Heat gun.

4.3 General Atomic RM23P Readout Module or equivalent

4.4 Cotton swabs

5.0 ACCEPTANCE CRITERIA

5.1 On a high radiation signal (alert alarm), the normal system is automatically isolated and Emergency Filtering System Train A operates. (Tech Spec 4.10.1.B.5). This is demonstrated when all dampers cycle to the proper position as listed on Data Sheet 3 when the system is actuated in the Radiological Mode and differential pressure is developed across the filter banks and booster fan in the Essential Filtration Unit.

5.2 On a toxic gas (ammonia excluded) isolation test signal, the system automatically switches into the isolation mode of operation with flow through the HEPA filters and charcoal adsorber banks. (Tech Spec 4.10.1B.6). This is demonstrated when all dampers cycle to the proper position as listed on Data Sheet 4 when the system is actuated in the Toxic Gas Mode and differential pressure is developed across the filter banks and booster fan in the Essential Filtration Unit.

5.3 Control Room/Technical Support Center Essential HVAC System A was actuated by the high temperature detector.

5.4 On a detection of high humidity the Relative Humidity Heater is energized.

6.0 PROCEDURE

6.1 Preliminaries

6.1 .1 Document the reason for performance on Data Sheet 1.

6.1 .2 Document performance authorization on Data Sheet 1.

PROCEDURE (Continued)

6.1 .3 Document personnel identification on
Data Sheet 1. _____

6.1 .4 Document prerequisites are satisfied on
Data Sheet 1. _____

6.2 Initial Status Verification

6.2 .1 Verify the Control Room normal air conditioning
unit (AH-A-1) is in operation by observing the
BLPB on the Control Room H2X panel. Document
on Data Sheet 2. _____

NOTE: IDADS printouts may be substituted in lieu
of filling out the Data Sheets. When IDADS
printouts are substituted, they must be
identified by the procedure number, step
number for which they were collected, and
be initialed and dated.

6.2 .2 Observe the CR/TSC Essential Ventilation System
damper positions in the Normal Reset (Standby)
Mode as indicated by the IDADS monitor. Record
the indicated positions for the A system on
Data Sheet 2. _____

NOTE: Steps 6.2.2.1 through 6.2.2.6 provide
instructions for operation of the IDADS
terminal and display monitor as necessary
for performance of this procedure.

6.2 .2.1 Press ENABLE and CLEAR SCREEN keys
simultaneously on the IDADS terminal
keyboard. _____

6.2 .2.2 Press HOME key to position cursor on
the monitor. _____

6.2 .2.3 Press H, V, A, and C keys in sequential
order. _____

6.2 .2.4 Press ENABLE and GROUP DISPLAY keys
simultaneously. _____

6.2 .2.5 Press ENABLE and PAGE FORWARD keys
simultaneously to page forward. _____

6.2 .2.6 Repeat Step 6.2.2.5 until the page
containing the points listed on Data
Sheet 4 are displayed on the monitor. _____

PROCEDURE (Continued)

6.3 Operation of the CR/TSC Essential Ventilation System Train A in the Radiological Mode.

6.3 .1 Record original Rad. Detector RY-15701 Setpoint on Data Sheet 3.

6.3 .1.1 Start the CR/TSC Essential Ventilation System Train A on High Radiation signal (Alert Alarm) by asking Rad Monitoring I&C Tech to place channel item nine (9) on Radiation Monitor RY-15701 (located in the West 4160V Switchgear room) one (1) decade below ambient activity reading using the RM23P readout module.

6.3 .2 Verify the Normal Air Handling (AH-A-1) Unit has stopped by observing the NORMAL STOP UNIT BLPB on H2X. Record on Data Sheet 3.

6.3 .3 Observe the CR/TSC Essential Ventilation System damper positions as indicated by the IDADS monitor. Record the indicated positions for the A System on Data Sheet 3.

6.3 .4 Record the Essential Filtration Unit (SF-A-7A), HEPA and carbon adsorber filter bank differential pressures on Data Sheet 3. The instrument ID numbers are listed on Data Sheet 3.

6.3 .5 Return setting on RY-15701 High Rad Detector to the setpoint it was in in Step 6.3.1. Record on Data Sheet 3.

6.3 .6 Stop the CR/TSC Essential HVAC System A by pushing the AH-A-545A Isol/Stop BLPB on the H2X panel. Record on Data Sheet 3.

NOTE: The following steps return the Essential System Train A to Standby mode per A.14.

6.3 .7 Reset the CR/TSC Normal and Essential HVAC Systems by pushing the AH-A-545A Normal Reset BLPB on the H2X panel. Record on Data Sheet 3.

6.4 Operation of the CR/TSC Essential Ventilation System Train A on Toxic Gas (High Chlorine) Signal

6.4 .1 Place a cotton swab dampened with Chlorine bleach next to detector AE 54701 probe (located in the tank farm) until a toxic start is initiated on Train A. Record on Data Sheet 4.

PROCEDURE (Continued)

- 6.4 .2 Observe the CR/TSC Essential Ventilation damper positions as indicated by the IDADS monitor. Record the indicated positions for the A System on Data Sheet 4. _____
- 6.4 .3 Record the Essential Filtration Unit (SF-A-7A), HEPA, and carbon adsorber filter bank differential pressures on Data Sheet 4. The instrument ID numbers are listed on Data Sheet 4. _____
- 6.4 .4 Stop the CR/TSC Essential Ventilation System A by pushing the AH-A-545A Isol/Stop BLPB on the H2X panel and record the stop time on Data Sheet 4. _____

NOTE: The following step returns the Essential System Train A to Standby mode per A.14.

- 6.4 .5 Reset the CR/TSC Normal and Essential HVAC System Train A to the standby mode by pushing the AH-A-545A Normal Reset BLPB on the H2X panel. Record on Data Sheet 4. _____

- 6.5 Operation of the CR/TSC Essential Ventilation System Train A on (High Temperature) signal

NOTE: The heat gun is a hand held hot air blower (hair dryer).

- 6.5 .1 Use the Heat gun to apply warm air to TE 54703 until a Start is initiated on the A Train. _____
- 6.5 .2 Observe the CR/TSC Essential Ventilation damper positions as indicated by the IDADS monitor. Record the indicated positions for the A system on Data Sheet 5. _____
- 6.5 .3 Record the Essential Filtration Unit (SF-A-7A) HEPA and carbon filter bank differential pressures on Data Sheet 5. _____
- 6.5 .4 Observe the temperature of the A Train air flow on TISHL-54705C. Record on Data Sheet 5. _____

PROCEDURE (Continued)

6.5 .5 Operation of Relative Humidity Heater.

NOTE: The humidity probe is located inside the upstream access door to the first HEPA filter bank.

6.5 .5.1 Actuate heater by spraying water (through an atomizer) into the airstream just upstream of the humidity probe, ME 54701. _____

6.5 .5.2 Verify the heater is energized by observing TISHL 54705C for a temperature rise. Initial Data Sheet 5. _____

6.5 .6 Operate the train until the heater is de-energized. (This will occur when the hygromechanical strip in the sensor dries out.) _____

6.5 .7 Stop the CR/TSC Essential Ventilation System A by pushing the AH-A-545A Isol/Stop BLPB on the H2X panel and record the stop time on Data Sheet 5. _____

NOTE: The following step returns the Essential System to Standby mode per A.14.

6.5 .8 Reset the CR/TSC normal and Essential HVAC System Train A to the standby mode by pushing the AH-A-545A Normal Reset BLPB on the H2X panel. _____

6.5 .9 Start the Control Room Normal Air Handler Unit (AH-A-1) by pushing the Normal Unit Start BLPB on the H2X panel. Record on Data Sheet 5. _____

6.6 Completion and Acceptance

6.6 .1 Identify and describe on Data Sheet 6 any Work Request (WR), Occurrence Description Report (ODR), and/or Non-Conformance Report (NCR) prepared as a result of the performance of this SP, or indicate "N/A" if none were prepared. _____

6.6 .2 Review Data Sheets 1 through 4 for completeness. Document review on Data Sheet 6. _____

6.6 . Document procedure completion date and info. Shift Supervisor of completion of this SP on Data Sheet 6. _____

PROCEDURE (Continued)

6.6 .4 As soon as this procedure is complete, the Shift Supervisor shall review the performance of the SP to determine operability based on satisfactory completion of Section 5.0, Acceptance Criteria, and document on Data Sheet 6. _____

6.6 .5 IF the Acceptance Criteria and/or operability requirements have not been satisfied, then the Shift Supervisor shall review applicable Tech Spec Limiting Conditions for Operation (LCOs) for implementation and document on Data Sheet 6. _____

NOTES: Routing instructions for final approval are as follows:

1. Forward the surveillance procedure to the Surveillance Group for schedule update.
2. The Surveillance Group will forward the procedure to the System Engineer for review.
3. The reviewer will verify the acceptability based on parameters/conditions observed during the performance of this SP.
4. The reviewer will return the surveillance procedure to the Surveillance Group.

7.0 REFERENCES

- 7.1 Technical Specification 3.13.1, 3.13.3, 4.10.1B.5, and 4.10.1B.6
- 7.2 US NRC Regulatory Guide 1.52; Revision 2, March, 1978
- 7.3 P&ID M-504, CR/TSC Normal and Emergency HVAC Systems, Rev. 10
- 7.4 M13.16, Radiological Air Filtration Units, TSC and Control Room; Rancho Seco Technical Manual Library Log No. 932
- 7.5 ECN A-3920, CR/TSC HVAC System
- 7.6 A.14, Heating, Ventilating, and Air Conditioning System; Plant Operations Manual, Rev. 25
- 7.7 A.75A, IDADS; Plant Operation Manual, Rev. 7

8.0 ENCLOSURES

None

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9.0 Surveillance Documentation SP.485A Refueling Interval, Special Frequency Control Room/ Technical Support Center Essential HVAC System Actuation by Radiation Monitors and by Chlorine Detectors Train A.

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DATA SHEET 1

PRELIMINARIES

Step

6.1.1 Reason for Performance (check one):

____ Scheduled Surveillance ____ Collection of Technical Data

____ Post-Maint Testing ____ Other _____

Comments: _____

6.1.2 Authorization for Performance:

The personnel assigned to this procedure are sufficiently proficient in their craft/profession to perform this procedure and the Shift Supervisor is aware of the procedure's effects on plant operations. This procedure may be performed and is subject to termination by the Shift Supervisor. _____

Shift Supervisor _____ Date _____
Signature

Print Name _____

6.1.3 Personnel Identification

SURVEILLANCE PERFORMER(S):

Printed Name _____ Sig. _____ Init. _____

Printed Name _____ Sig. _____ Init. _____

Printed Name _____ Sig. _____ Init. _____

Printed Name _____ Sig. _____ Init. _____

6.1.4 All prerequisites of Section 3.0 are satisfied. _____ / _____
Initial / Date

DATA SHEET 2

INITIAL CONDITIONS

Step

6.2.1 Control Room Normal Air Conditioning Unit AH-A-1 is in operation.

Initials _____

6.2.2 CR/TSC Essential Ventilation System Normal Reset (Standby)
damper positions from IDADS.

IDADS Point No.	Description	Required Position	Actual Position	Initial/Date
Z2900	EFU SF-A-7A OSA ISO: HV-54705	NOT OPEN	_____	_____/____
Z2901	EFU SF-A-7A OSA ISO: HV-54705	CLOSED	_____	_____/____
Z2902	EFU SF-A-7A OSA ISO: HV-54706	OPEN	_____	_____/____
Z2903	EFU SF-A-7A OSA ISO:____ HV-54706	N CL	_____	_____/____
Z2904	EFU SF-A-7B OSA ISO: HV-54707	OPEN	_____	_____/____
Z2905	EFU SF-A-7B OSA ISO: HV-54707	N CL	_____	_____/____
Z2908	ESS. AH-A-545A DISCH ISO: HV-54709	NOT OPEN	_____	_____/____
Z2909	ESS. AS-A-545A DISCH. ISO: HV-54709	CLOSED	_____	_____/____
Z2912	ESS. AH-A-545A SUCT. ISO: HV-54715	NOT OPEN	_____	_____/____
Z2913	ESS. AH-A-545A SUCT ISO: HV-54715	CLOSED	_____	_____/____
Z2916	TSC SPLY FR NORM AHU ISO: HV-54717	OPEN	_____	_____/____
Z2917	TSC SPLY FR NORM AHU ISO: HV-54717	N CL	_____	_____/____

DATA SHEET 2 (Continued)
INITIAL CONDITIONS

6.2.2 (Continued)

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Actual Position</u>	<u>Initial/Date</u>
Z2920	TSC RET TO NORM AHU ISO: HV-54719	OPEN	_____	_____/____
Z2921	TSC RET TO NORM AHU ISO: HV-54719	N CL	_____	_____/____
Z2924	CR RET TO AH-A-1 ISO: HV-54721	OPEN	_____	_____/____
Z2925	CR RET TO AH-A-1 ISO: HV-54721	N CL	_____	_____/____
Z2928	CR-SPLY FR AH-A-1 ISO: HV-54723	OPEN	_____	_____/____
Z2929	CR- SPLY FR AH-A-1 ISO: HV-54723	N CL	_____	_____/____
Z2932	CR SPLY FR AH-A-1 ISO: HV-54725	OPEN	_____	_____/____
Z2933	CR SPLY FR AH-A-1 ISO: HV-54725	N CL	_____	_____/____
Z2936	TOILET EXH FAN ISO: HV-54727	OPEN	_____	_____/____
Z2937	TOILET EXH FAN ISO: HV-54727	N CL	_____	_____/____
Z2940	KITCHEN EXH FAN ISO: HV-54729	OPEN	_____	_____/____
Z2941	KITCHEN EXH FAN ISO: HV-54729	N CL	_____	_____/____
Z2944	CONFR'N RM EXH FAN ISO: HV-54731	OPEN	_____	_____/____
Z2945	CONFR'N RM EXH FAN ISO: HV-54731	N CL	_____	_____/____

DATA SHEET 2 (Continued)
INITIAL CONDITIONS

6.2.2 (Continued)

IDADS Point No.	Description	Required Position	Actual Position	Initial/Date
Z2948	ESS. AH-A-545A-DISCH. ISO: HV-54733	NOT OPEN	_____	_____/____
Z2949	ESS. AH-A-545A DISCH. ISO: HV-54733	CLOSED	_____	_____/____
Z2952	ESS. AH-A-545A SUCT. ISO: HV-54735	NOT OPEN	_____	_____/____
Z2953	ESS. AH-A-545A SUCT. ISO: HV-54735	CLOSED	_____	_____/____

3- Z8909	TSC SPLY SMOKE: DAMPER HV-54737	NOT OPEN	_____	_____/____
Z8910	TSC RET SMOKE: DAMPER HV-54738	NOT OPEN	_____	_____/____
Z8911	TSC SPLY SMOKE: DAMPER HV-54737	CLOSED	_____	_____/____
Z8912	TSC RET SMOKE: DAMPER HV-54738	CLOSED	_____	_____/____

DATA SHEET 3

OPERATING DATA IN THE RADIOLOGICAL MODE

Step

6.3.1 Radiation Detector RY-15701 Initial Setpoint _____

6.3.1.1 CR/TSC Essential Ventilation System is in operation. _____

6.3.2 Normal Air Handler AH-A-1 stopped. _____

6.3.3 CR/TSC Essential Ventilation System Radiological Mode damper positions from IDAD'S.

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Indicated Position</u>	<u>Initial/Date</u>
Z2900	EFU SF-A-7A OSA ISO: HV-54705	OPEN	_____	_____/____
Z2901	EFU SF-A-7A OSA ISO: HV-54705	N CL	_____	_____/____
Z2902	EFU SF-A-7A OSA ISO: HV-54706	OPEN	_____	_____/____
Z2903	EFU SF-A-7A OSA ISO: HV-54706	N CL	_____	_____/____
Z2904	EFU SF-A-7B OSA ISO: HV-54707	OPEN	_____	_____/____
Z2905	EFU SF-A-7B OSA ISO: HV-54707	N CL	_____	_____/____
Z2908	ESS. AH-A-545A DISCH. ISO: HV-54709	OPEN	_____	_____/____
Z2909	ESS. AH-A-545A DISCH. ISO: HV-54709	N CL	_____	_____/____
Z2912	ESS. AH-A-545A SUCT. ISO: HV-54715	OPEN	_____	_____/____
Z2913	ESS. AH-A-545A SUCT. ISO: HV-54715	N CL	_____	_____/____
Z2916	TSC SPLY FR NORM AHU ISO: HV-54717	NOT OPEN	_____	_____/____

DATA SHEET 3 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE

6.3.3 CR/TSC Essential Ventilation System damper positions from IDAD'S

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Indicated Position</u>	<u>Initial/Date</u>
Z2917	TSC SPLY FR NORM AHU ISO: HV-54717	CLOSED	_____	_____/____
Z2920	TSC RET TO NORM AHU ISO: HV-54719	NOT OPEN	_____	_____/____
Z2921	TSC RET TO NORM AHU ISO: HV-54719	CLOSED	_____	_____/____
Z2924	CR RET TO AH-A-1 ISO: HV-54721	NOT OPEN	_____	_____/____
Z2925	CR RET TO AH-A-1 ISO: HV-54721	CLOSED	_____	_____/____
Z2928	CR SPLY FR AH-A-1 ISO: HV-54723	NOT OPEN	_____	_____/____
Z2929	CR SPLY FR AH-A-1 ISO: HV-54723	CLOSED	_____	_____/____
Z2932	CR SPLY FR AH-A-1 ISO: HV-54725	NOT OPEN	_____	_____/____
Z2933	CR SPLY FR AH-A-1 ISO: HV-54725	CLOSED	_____	_____/____
Z2936	TOILET EXH FAN ISO: HV-54727	NOT OPEN	_____	_____/____
Z2937	TOILET EXH FAN ISO: HV-54727	CLOSED	_____	_____/____
Z2940	KITCHEN EXH FAN ISO: HV-54729	NOT OPEN	_____	_____/____
Z2941	KITCHEN EXH FAN ISO: HV-54729	CLOSED	_____	_____/____
Z2944	CONFR'N RM EXH FAN ISO: HV-54731	NOT OPEN	_____	_____/____

DATA SHEET 3 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE

6.3.3 CR/TSC Essential Ventilation System damper positions from IDAD'S

IDADS Point No.	Description	Required Position	Indicated Position	Initial/Date
Z2945	CONFR'N RM EXH FAN ISO: HV-54731	CLOSED	_____	_____/____
Z2948	ESS. AH-A-545A DISCH. ISO: OPEN HV-54733	OPEN	_____	_____/____
Z2949	ESS. AH-A-545A DISCH. ISO: N CL HV-54733	N CL	_____	_____/____
Z2952	ESS. AH-A-545A SUCT. ISO: OPEN HV-54735	OPEN	_____	_____/____
Z2953	ESS. AH-A-545A SUCT ISO: N CL HV-54735	N CL	_____	_____/____

RECORDED BY _____			DATE _____	
3-	Z8909	TSC SPLY SMOKE: DAMPER HV-54737	NOT OPEN	_____/____
	Z8910	TSC RET SMOKE: DAMPER HV-54738	NOT OPEN	_____/____
	Z8911	TSC SPLY SMOKE: DAMPER HV-54737	CLOSED	_____/____
	Z8912	TSC RET SMOKE: DAMPER HV-54738	CLOSED	_____/____

DATA SHEET 3 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE

6.3.4 Essential Filtration Unit A (SF-A-7A) Differential Pressure Indications.		<u>Initial/Date</u>
.1	Booster fan differential pressure (PDI-54705) _____ In H ₂ O	_____/____
.2	PDI-54705 calibration due date _____	_____/____
.3	Total filter bank differential pressure (PDISH-54703B) maximum differential pressure <6" H ₂ O _____ In H ₂ O	_____/____
.4	PDISH-54703B calibration due date _____	_____/____
.5	Second stage HEPA filter differential pressure (PDI-54703A) _____ In H ₂ O	_____/____
.ii	PDISH-54703A calibration due date _____	_____/____
.7	Carbon adsorber section total differential pressure (PDI-54701A) _____ In H ₂ O	_____/____
.8	PDI-54701A calibration due date _____	_____/____
.9	First stage HEPA filter differential (PDISH-54701) _____ In H ₂ O	_____/____
.10	PDISH-54701 calibration due date _____	_____/____
.11	Moisture eliminator differential pressure (PDI-54701B) _____ In H ₂ O	_____/____
.12	PDI-54701B calibration due date _____	_____/____

=====

6.3.5 Return setting on RY-15701 High Radiation Detector to Normal _____

6.3.6 Essential HVAC Train A stopped _____

6.3.7 Essential HVAC Train A Reset to Normal Reset (Standby) Mode _____

Recorded By _____ Date _____

Reviewed By _____ Date _____

DATA SHEET 4

OPERATING DATA IN THE TOXIC GAS MODE

Step

6.4.1 CR/TSC Essential Ventilation System A is in operation.

Initials _____

6.4.2 CR/TSC Essential Ventilation System Toxic Gas Mode damper positions from IDADS.

IDADS Point No.	Description	Required Position	Indicated Position	Initial/Date
Z2900	EFU SF-A-7A OSA ISO: HV-54705	NOT OPEN	_____	_____/____
Z2901	EFU SF-A-7A OSA ISO: HV-54705	CLOSED	_____	_____/____
Z2902	EFU SF-A-7A OSA ISO: HV-54706	OPEN	_____	_____/____
Z2903	EFU SF-A-7A OSA ISO: HV-54706	N CL	_____	_____/____
Z2904	EFU SF-A-7B OSA ISO:____ HV-54707	NOT OPEN	_____	_____/____
Z2905	EFU SF-A-7B OSA ISO: HV-54707	CLOSED	_____	_____/____
Z2908	ESS. AH-A-545A DISCH. ISO: HV-54709	OPEN	_____	_____/____
Z2909	ESS AH-A-545A DISCH ISO: HV-54709	N CL	_____	_____/____
Z2912	ESS. AH-A-545A SUCT ISO: HV-54715	OPEN	_____	_____/____
Z2913	ESS. AH-A-545A SUCT ISO: HV-54715	N CL	_____	_____/____
Z2916	TSC SPLY FR NORM AHU ISO: HV-54717	NOT OPEN	_____	_____/____
Z2917	TSC SPLY FR FORM AHU ISO: HV-54717	CLOSED	_____	_____/____
Z2920	TSC RET TO NORM AHU ISO: HV-54719	NOT OPEN	_____	_____/____

DATA SHEET 4 (Continued)
 OPERATING DATA IN THE TOXIC GAS MODE

6.4.2 (Continued)

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Indicated Position</u>	<u>Initial/Date</u>
Z2921	TSC RET TO NORM AHU ISO: HV-54719	CLOSED	_____	_____/____
Z2924	CR RET TO AH-A-1 ISO: HV-54721	NOT OPEN	_____	_____/____
Z2925	CR RET TO AH-A-1 ISO: HV-54721	CLOSED	_____	_____/____
Z2928	CR SPLY FR AH-A-1 ISO: HV-54723	NOT OPEN	_____	_____/____
Z2929	CR SPLY FR AH-A-1 ISO: HV-54723	CLOSED	_____	_____/____
Z2932	CR SPLY FR AH-A-1 ISO: HV-54725	NOT OPEN	_____	_____/____
Z2933	CR SPLY FR AH-A-1 ISO: HV-54725	CLOSED	_____	_____/____
Z2936	TOILET EXH FAN ISO: HV-54727	NOT OPEN	_____	_____/____
Z2937	TOILET EXH FAN ISO: HV-54727	CLOSED	_____	_____/____
Z2940	KITCHEN EXH FAN ISO: HV-54729	NOT OPEN	_____	_____/____
Z2941	KITCHEN EXH FAN ISO: HV-54729	CLOSED	_____	_____/____
Z2944	CONFR'N RM EXH FAN ISO: HV-54731	NOT OPEN	_____	_____/____
Z2945	CONFR'N RM EXH FAN ISO: HV-54731	CLOSED	_____	_____/____
Z2948	ESS AH-A-545A DISCH ISO: HV-54733	OPEN	_____	_____/____
Z2949	ESS AH-A-545A DISCH ISO: HV-54733	N CL	_____	_____/____

DATA SHEET 4 (Continued)
OPERATING DATA IN THE TOXIC GAS MODE

6.4.2 (Continued)

<u>IDADS</u> <u>Point No.</u>	<u>Description</u>	<u>Required</u> <u>Position</u>	<u>Indicated</u> <u>Position</u>	<u>Initial/Date</u>
Z2952	ESS AH-A-545A SUCT ISO: HV-54735	OPEN	_____	_____/____
Z2953	ESS AH-A-545A SUCT ISO: HV-54735	N CL	_____	_____/____

RECORDED BY _____ DATE _____

3-	Z8909	TSC SPLY SMOKE: DAMPER HV-54737	NOT OPEN	_____	_____/____
	Z8910	TSC RET SMOKE: DAMPER HV-54738	NOT OPEN	_____	_____/____
	Z8911	TSC SPLY SMOKE: DAMPER HV-54737	CLOSED	_____	_____/____
	Z8912	TSC RET SMOKE: DAMPER HV-54738	CLOSED	_____	_____/____

DATA SHEET 4 (Continued)
OPERATING DATA IN THE TOXIC GAS MODE

6.4.3 Essential Filtration Unit A (SF-A-7A) Differential
Pressure Indications.

Initial/Date

.1	Booster fan differential pressure (PDI-54705)	_____ In H ₂ O	_____/____
.2	PDI-54705 calibration due date	_____	_____/____
.3	Total filter bank differential pressure (PDISH-54703B) maximum differential pressure <6" H ₂ O	_____ In H ₂ O	_____/____
.4	PDISH-54703B calibration due date	_____	_____/____
.5	Second stage HEPA filter differential pressure (PDI-54703A)	_____ In H ₂ O	_____/____
.6	PDISH-54703A calibration due date	_____	_____/____
.7	Carbon adsorber section total differential pressure (PDI-54701A)	_____ In H ₂ O	_____/____
.8	PDI-54701A calibration due date	_____	_____/____
.9	First stage HEPA filter differential (PDISH-54701)	_____ In H ₂ O	_____/____
.10	PDISH-54701 calibration due date	_____	_____/____
.11	Moisture eliminator differential pressure (PDI-54701B)	_____ In H ₂ O	_____/____
.12	PDI-54701B calibration due date	_____	_____/____

RECORDED BY _____

DATE _____

6.4.4 Essential Ventilation System A Stopped _____/____

6.4.5 Essential Ventilation System A Reset _____/____

DATA SHEET 5

OPERATING DATA IN THE RADIOLOGICAL MODE (High Temperature)

Step

6.5.1 CR/TSC Essential Ventilation System is in operation. _____

6.5.2 CR/TSC Essential Ventilation System Radiological Mode damper positions from IDADS.

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Indicated Position</u>	<u>Initial/Date</u>
Z2900	EFU SF-A-7A OSA ISO: HV-54705	OPEN	_____	_____/____
Z2901	EFU SF-A-7A OSA ISO: HV-54705	N CL	_____	_____/____
Z2902	EFU SF-A-7A OSA ISO: HV-54706	OPEN	_____	_____/____
Z2903	EFU SF-A-7A OSA ISO: HV-54706	N CL	_____	_____/____
Z2904	EFU SF-A-7B OSA ISO: HV-54707	OPEN	_____	_____/____
Z2905	EFU SF-A-7B OSA ISO: HV-54707	N CL	_____	_____/____
Z2908	ESS. AH-A-545A DISCH. ISO: HV-54709	OPEN	_____	_____/____
Z2909	ESS. AH-A-545A DISCH. ISO: HV-54709	N CL	_____	_____/____
Z2912	ESS. AH-A-545A SUCT. ISO: HV-54715	OPEN	_____	_____/____
Z2913	ESS. AH-A-545A SUCT. ISO: HV-54715	N CL	_____	_____/____
Z2916	TSC SPLY FR NORM AHU ISO: HV-54717	NOT OPEN	_____	_____/____

DATA SHEET 5 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE (High Temperature)

6.5.2 (Continued)

<u>IDADS Point No.</u>	<u>Description</u>	<u>Required Position</u>	<u>Indicated Position</u>	<u>Initial/Date</u>
Z2917	TSC SPLY FR NORM AHU ISO: HV-54717	CLOSED	_____	_____/____
Z2920	TSC RET TO NORM AHU ISO: HV-54719	NOT OPEN	_____	_____/____
Z2921	TSC RET TO NORM AHU ISO: HV-54719	CLOSED	_____	_____/____
Z2924	CR RET TO AH-A-1 ISO: HV-54721	NOT OPEN	_____	_____/____
Z2925	CR RET TO AH-A-1 ISO: HV-54721	CLOSED	_____	_____/____
Z2928	CR SPLY FR AH-A-1 ISO: HV-54723	NOT OPEN	_____	_____/____
Z2929	CR SPLY FR AH-A-1 ISO: HV-54723	CLOSED	_____	_____/____
Z2932	CR SPLY FR AH-A-1 ISO: HV-54725	NOT OPEN	_____	_____/____
Z2933	CR SPLY FR AH-A-1 ISO: HV-54725	CLOSED	_____	_____/____
Z2936	TOILET EXH FAN ISO: HV-54727	NOT OPEN	_____	_____/____
Z2937	TOILET EXH FAN ISO: HV-54727	CLOSED	_____	_____/____
Z2940	KITCHEN EXH FAN ISO: HV-54729	NOT OPEN	_____	_____/____
Z2941	KITCHEN EXH FAN ISO: HV-54729	CLOSED	_____	_____/____
Z2944	CONFR'N RM EXH FAN ISO: HV-54731	NOT OPEN	_____	_____/____

DATA SHEET 5 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE (High Temperature)

6.5.2 (continued)

IDADS Point No.	Description	Required Position	Indicated Position	Initial/Date
Z2945	CONFR'N RM EXH FAN ISO: HV-54731	CLOSED	_____	_____/____
Z2948	ESS. AH-A-545A DISCH. ISO: OPEN HV-54733		_____	_____/____
Z2949	ESS. AH-A-545A DISCH. ISO: N CL HV-54733		_____	_____/____
Z2952	ESS. AH-A-545A SUCT. ISO: OPEN HV-54735	OPEN	_____	_____/____
Z2953	ESS. AH-A-545A SUCT ISO: N CL HV-54735	N CL	_____	_____/____

RECORDED BY _____			DATE _____	
3-	Z8909	TSC SPLY SMOKE: DAMPER HV-54737	NOT OPEN	_____/____
	Z8910	TSC RET SMOKE: DAMPER HV-54738	NOT OPEN	_____/____
	Z8911	TSC SPLY SMOKE: DAMPER HV-54737	CLOSED	_____/____
	Z8912	TSC RET SMOKE: DAMPER HV-54738	CLOSED	_____/____

DATA SHEET 5 (Continued)
OPERATING DATA IN THE RADIOLOGICAL MODE (High Temperature)

6.5.3 Essential Filtration Unit A (SF-A-7A) Differential
Pressure Indications.

Initial/Date

- | | | | |
|-----|---|---------------------------|------------|
| .1 | Booster fan differential pressure
(PDI-54705) | _____ In H ₂ O | _____/____ |
| .2 | PDI-54705 calibration due date | _____ | _____/____ |
| .3 | Total filter bank differential
pressure (PDISH-54703B) maximum
differential pressure <6" H ₂ O | _____ In H ₂ O | _____/____ |
| .4 | PDISH-54703B calibration due date | _____ | _____/____ |
| .5 | Second stage HEPA filter differential
pressure (PDI-54703A) | _____ In H ₂ O | _____/____ |
| .6 | PDISH-54703A calibration due date | _____ | _____/____ |
| .7 | Carbon adsorber section total
differential pressure (PDI-54701A) | _____ In H ₂ O | _____/____ |
| .8 | PDI-54701A calibration due date | _____ | _____/____ |
| .9 | First stage HEPA filter differential
(PDISH-54701) | _____ In H ₂ O | _____/____ |
| .10 | PDISH-54701 calibration due date | _____ | _____/____ |
| .11 | Moisture eliminator differential
pressure (PDI-54701B) | _____ In H ₂ O | _____/____ |
| .12 | PDI-54701B calibration due date | _____ | _____/____ |

6.5.4 Essential HVAC Train A air temperature _____ degrees F
TISHL-54705C _____/____

TISHL-54705C - Cal. Due Date _____/____

6.5.5.2 Relative Humidity Heater Energized _____/____

6.5.7 Essential HVAC Train A stopped _____/____

6.5.9 Control Room normal system AH-A-1 restarted _____/____

Recorded By _____ Date _____

Reviewed By _____ Date _____

DATA SHEET 6

COMPLETION AND ACCEPTANCE

Step

COMPLETION OF PERFORMANCE

- 6.6.1 Identify and describe the corrective action documentation such as WR, ODR, and/or NCR prepared as a result of the performance of this SP, or indicate "N/A" if none were prepared.

- 6.6.2 Required data sheets have been reviewed for completeness.

- 6.6.3 Completion Date _____ (Inform Shift Supervisor)

Initial

=====

INITIAL REVIEW

Date ____/____/____

- 6.6.4 The System(s)/Component(s) has been determined operable by the satisfying the Acceptance Criteria stated in Section 5.
(Circle One) Yes / No

Shift Supervisor _____ / _____
Signature Printed Name

NOTE: If "NO," then 6.6.5 must be completed.

=====

LIMITING CONDITIONS FOR OPERATION REVIEW

- 6.6.5 IF the Acceptance Criteria/Operability requirements have not been satisfied, then review the following Tech Spec LCOs.

Date _____

LCO 3.13.1 and 3.13.3

Indicate which, if any, LCOs need to be implemented.

Shift Supervisor Review _____ / _____
Signature Printed Name

DATA SHEET 6
COMPLETION AND ACCEPTANCE (Continued)

=====

ENGINEERING REVIEW

Engineering review indicated the Surveillance Procedure to be:
(Check One)

- _____ Acceptable - All of the acceptance criteria have been satisfied and the equipment is operable.
- _____ Not Acceptable - Document reasons in comment.

IF not acceptable then the following compensatory measures and/or corrective actions have been taken.
(Check one or more)

- _____ 1. The Shift Supervisor has been informed. (Required)
- _____ 2. Occurrence Description Report prepared.
- _____ 3. Non-Conformance Report prepared.
- _____ 4. Work Request Prepared.
- _____ 5. Re-Testing is required.

COMMENTS: _____

Engineering Review _____ Date _____
System Engineer

Printed Name _____

=====

Second Engineering Review _____ Date _____

Printed Name _____

END