

Electronic Procedure Package
PT/0/B/4700/038
Quality Record

10/21/22 01:01 AM

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Document Number: PT/0/B/4700/038

Document Title: VERIFICATION OF FREEZE PROTECTION EQUIPMENT AND SYSTEMS

Version: 037

Document Type: PROC

Procedure Checklist Questions	Response(Yes/NA)
Checklist and/or blanks initiated,signed,dated or filled in NA as appropriate?	Yes
Required attachments included?	Yes
Charts,graphs,datasheets,etc.attached,dated,identified,and marked?	NA
Calibrated test equipment,if used,checked out/in and references to this procedure?	NA
Procedure requirement met?	Yes

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Date:2022-10-20

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Date:2022-10-20

Activity = OPS

Description =

10/21/22 01:01 AM

Quality Record

Document Comments

Comment Type: Work Complete
Sat

Comment Type: Supervisor Review Complete
.

Document Files

PROC - MC - PT_0_B_4700_038 - 037 - ISSUED.PDF

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MCGUIRE UNIT 0
TECHNICAL PROCEDURE (TESTING)
NON-SAFETY RELATED
PT/0/B/4700/038

**VERIFICATION OF FREEZE PROTECTION
EQUIPMENT AND SYSTEMS**

REVISION 037

W/O 20525341

BJJ - BRIAN JETTON

CS - GRANT HUFFSTETLER

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REVISION SUMMARY
PRR 02393896 DESCRIPTION
Rev 037 PRR 02393896: AD-EG-ALL-1523, Temporary Ignition Source Control was superseded and replaced by AD-FP-ALL-1523, Temporary Ignition Source Control. Procedure number changed in two places in the procedure.

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1.0 PURPOSE

To check readiness of cold weather equipment and systems to ensure safe reliable operation of units during cold weather months.

2.0 SCOPE

An inspection to check operability of cold weather protection devices under Operations control will be performed. Cold weather protection devices and operational tests under control of other station groups will be checked to have been completed or operable.

3.0 PRECAUTIONS AND LIMITATIONS**3.1 Precautions**

1. Installation of portable electric heaters to an area as supplement heat shall comply with AD-FP-ALL-1523, Temporary Ignition Source Control.

3.2 Limitations

None

4.0 GENERAL INFORMATION**4.1 Time Required**

1. Two Operators 12 hours.
2. Maintenance **OR** SPOC personnel to perform Step 4 **AND** Step 12 per Model Work Order 00429074.

4.2 Equipment Required

1. Key #297

4.3 Data Required

None

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5.0 ACCEPTANCE CRITERIA

1. All required tests **AND** PM/PTs completed **AND** all discrepancies evaluated.
2. Per AD-WC-ALL-0210, Work Request Initiation, Screening, Prioritization And Classification, Work Requests coded for freeze protection generated for all discrepancies.
3. Shift Manager **OR** Designee made aware of all discrepancies for evaluation.

6.0 PREREQUISITES

None

7.0 INSTRUCTIONS

1. **IF AT ANY TIME** there is the potential for freezing conditions which could affect safe reliable plant operation prior to full completion of this procedure,
THEN evaluate components **NOT** yet aligned for cold weather.
[9.7.3].....

SRO

N/A BWJ

NOTE

- PT/0/B/4700/021 (Plant Heating Water System Checkout And Startup) may be run concurrently with and completed after this procedure. ☐ ✓
- Step 2 - Step 19 may be performed in any order or concurrently. ☐ ✓

2. **Notify** Engineering to evaluate any outstanding concerns associated with YH System **AND** performance of PT/0/B/4700/021 (Plant Heating Water System Checkout and Startup).

BWJ

DAVE SHOWALTER
Person Contacted

10/17/22
Date

1436
Time

3. **Notify** Work Control to ensure the following initiated **OR** scheduled:
- Monthly PMs for 1EHTLPXXX1 (Model W/O 00393879) ☐ ✓
 - Monthly PMs for 2EHTLPXXX1 (Model W/O 00393878) ☐ ✓
 - Annual PM for 0EHTLPXXX1 (Model W/O 00394758)..... ☐ ✓

BWJ

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7.0 INSTRUCTIONS (continued)

4. **Notify** Maintenance **OR** SPOC to perform the following:..... BWJ

MIKE McMANUS 10/17/22 1248
Person Contacted Date Time

a. **Ensure** UNIT 1 **AND** UNIT 2 Exterior Doghouse lower steam vent louvers CLOSED per work order instructions: DRZ
MNT

- UNIT 1 Exterior Doghouse ☐ ✓
- UNIT 2 Exterior Doghouse ☐ ✓

b. **Ensure** UNIT 1 **AND** UNIT 2 Interior **AND** Exterior Doghouse top steam vent curtains are lowered per work order instructions: [9.7.6], [9.7.7] DRZ
MNT

PE-PATRICK
EARLY

- UNIT 1 Interior Doghouse..... ☐ ✓ PE 10/20/22
- UNIT 1 Exterior Doghouse ☐ ✓
- UNIT 2 Interior Doghouse..... ☐ ✓ PE 10/20/22
- UNIT 2 Exterior Doghouse ☐ ✓

NOTE

Key #297 required to complete the following step..... ☐ ✓

5. **Ensure** UNIT 1 **AND** UNIT 2 CF Transmitter House Doors CLOSED: ☐ ✓

- UNIT 1 East CF Transmitter House JM
- UNIT 1 West CF Transmitter House JM
- UNIT 2 East CF Transmitter House JM
- UNIT 2 West CF Transmitter House JM

JM - JASON McNAUGHTON
DRZ Tony D. Lawing

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7.0 INSTRUCTIONS (continued)

NOTE

IAE adjusts and maintains heater set points for heaters in the Interior and Exterior Doghouses, CF Transmitter Houses and Fire Pump rooms. ☐ ✓

6. **Check** UNIT 1 **AND** UNIT 2 Interior **AND** Exterior Doghouse area heaters are ENERGIZED **AND** OPERABLE by performing the following: ☐ ✓

- a. **Check** the following CLOSED for UNIT 1: ☐ ✓

- 1MXA-F3B (Unit 1 Interior Doghouse Heater 1VAUH0090) ☐ ✓
- 1MXA-R4A (Unit 1 Interior Doghouse Heater 1VAUH0091) ☐ ✓
- 1MXA-F1B (Unit 1 Exterior Doghouse Heater 1VAUH0094) ☐ ✓
- 1MXA-F2B (Unit 1 Exterior Doghouse Heater 1VAUH0095) ☐ ✓
- 1MXB-R4C (Unit 1 Interior Doghouse Heater 1VAUH0092) ☐ ✓
- 1MXB-F4D (Unit 1 Interior Doghouse Heater 1VAUH0093) ☐ ✓
- 1MXB-F2A (Unit 1 Exterior Doghouse Unit Heater 1VAUH0096) ☐ ✓
- 1MXB-R2C (Unit 1 Exterior Doghouse Heater 1VAUH0097) ☐ ✓

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7.0 INSTRUCTIONS (continued)

- b. **Check** the following CLOSED for UNIT 2: ☐ ✓
- 2MXA-R4B (Unit 2 Interior Doghouse Heater
2VAUH0090) ☐ ✓
 - 2MXA-R4A (Unit 2 Interior Doghouse Heater
2VAUH0091) ☐ ✓
 - 2MXA-R2C (Unit 2 Exterior Doghouse Heater
2VAUH0096) ☐ ✓
 - 2MXA-R1B (Unit 2 Exterior Doghouse Heater
2VAUH0097) ☐ ✓
 - 2MXB-R4C (Unit 2 Interior Doghouse Heater
2VAUH0093) ☐ ✓
 - 2MXB-R2C (Unit 2 Interior Doghouse Heater
2VAUH0092) ☐ ✓
 - 2MXC-F1B (Unit 2 Exterior Doghouse Heater
2VAUH0094) ☐ ✓
 - 2MXC-F3B (Unit 2 Exterior Doghouse Heater
2VAUH0095) ☐ ✓
- c. **IF** ambient air temperature near heater less than **OR** equal to
45°F,
THEN check heaters ON. N/A BWS

NOTE

Foam Cart House heaters are required to be in service in cold weather to ensure
foam is stored above freezing temperatures. [9.7.8] ☐ ✓

7. **Place** heaters in the following foam cart houses in service: ☐ ✓
- UNIT 1 Foam Cart House ☐ ✓
 - UNIT 2 Foam Cart House ☐ ✓

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7.0 INSTRUCTIONS (continued)

NOTE

Doghouse temperatures must be maintained greater than 40°F to ensure
VI System air components remain above dew point. ☐ ✓

8. **Check** the following OAC points in service **AND** corresponding
doghouse temperatures greater than 40°F: ☐ ✓
 - M1A0174 (U1 Inboard Doghouse Area Temp #1)..... ☐ ✓
 - M1A0691 (U1 Inboard Doghouse Area Temp #2)..... ☐ ✓
 - M1A0781 (U1 Outboard Doghouse Area Temp #1)..... ☐ ✓
 - M1A0787 (U1 Outboard Doghouse Area Temp #2)..... ☐ ✓
 - M2A0174 (U2 Inboard Doghouse Area Temp #1)..... ☐ ✓
 - M2A0691 (U2 Inboard Doghouse Area Temp #2)..... ☐ ✓
 - M2A0781 (U2 Outboard Doghouse Area Temp #1)..... ☐ ✓
 - M2A0787 (U2 Outboard Doghouse Area Temp #2)..... ☐ ✓
9. **Check** power available to Fire Pump room **AND** Screen Backwash
room heaters by checking the following CLOSED: ☐ ✓
 - SMXI-F1A (Traveling Screen Backwash Pump Room Unit
Heater (FPR-EH-2)) ☐ ✓
 - SMXI-F1B (A Main Fire Pump Room Unit Heater
(FPR-EH-1))..... ☐ ✓
 - SMXI-F1C (B Main Fire Pump Room Unit Heater
(FPR-EH-3))..... ☐ ✓
 - SMXI-F1D (C Main Fire Pump Room Unit Heater
(FPR-EH-4))..... ☐ ✓

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7.0 INSTRUCTIONS (continued)

10. **Check** power available to CF Transmitter House heaters by checking the following CLOSED: ☐ ✓
- 1MXNA-4H (Unit 1 CF Transmitter House Heaters 1VAUH0101 & 1VAUH0103)..... ☐ ✓
 - 1MXMA-4C (Unit 1 CF Transmitter House Heaters 1VAUH0100 & 1VAUH0102)..... ☐ ✓
 - 2MXNA-4H (Unit 2 CF Transmitter House Heaters 2VAUH0101 & 2VAUH0103)..... ☐ ✓
 - 2MXMA-4B (Unit 2 CF Transmitter House Heaters 2VAUH0100 & 2VAUH0102)..... ☐ ✓
11. **Check** the following OAC points in service **AND** corresponding CF Transmitter House temperatures are greater than 45°F:..... ☐ ✓
- M1A1301 (U1 East CF Transmitter House Temp) ☐ ✓
 - M1A1307 (U1 West CF Transmitter House Temp) ☐ ✓
 - M2A1301 (U2 East CF Transmitter House Temp) ☐ ✓
 - M2A1307 (U2 West CF Transmitter House Temp) ☐ ✓
12. **Notify** HVAC Maintenance **OR** SPOC to ensure Turbine Building ventilation properly aligned for weather conditions per work order as follows:..... BWJ
- Turbine Building Intake Louvers correctly positioned ☐ ✓
 - Appropriate number of supply **AND** exhaust fans in service ☐ ✓
 - Unit heaters operating properly ☐ ✓

MIKE McManus
Person Contacted

10/20/22
Date

14:19
Time

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7.0 INSTRUCTIONS (continued)

13. **Notify** Chemistry to evaluate isolating **AND** draining the following:
[9.7.5] BWJ
- Radwaste Area Chilled Water Chemical Feeder ☐ ☒
 - Hot Machine Shop Chilled Water Chemical Feeder ☐ ☒
- LAUREN CARTER 10/19/22 0735
Person Contacted Date Time
14. **Notify** Environmental Chemistry to ensure the following are
protected **OR** aligned for cold weather conditions: BWJ
- All Chemistry Portable Eye Wash stations ☐ ☒
 - All Chemistry Permanent Eye Wash stations ☐ ☒
 - All Safety Showers ☐ ☒
- LAUREN CARTER 10/19/22 0735
Person Contacted Date Time
15. **Notify** Chemistry to check building heating equipment operational in
the Outsourced Water Treatment Building. [9.7.4] BWJ
- LAUREN CARTER 10/19/22 0735
Person Contacted Date Time
16. **Complete** Attachment 1, RV To VA And VF Supply AHUs Isolation. LS

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7.0 INSTRUCTIONS (continued)

NOTE

The Operations truck does not require tire chains to be installed, the tire chains must be available for installation when needed. ☐ ✓

17. **Check** tire chains available for the Operations truck. ☐ ✓

18. **Perform** the following: ☐ ✓

a. **Check** the following energized with no alarms:..... ☐ ✓

• 1EHTTC0001 (FWST Normal Heat Trace Controller) ☐ ✓

• 1EHTTC0002 (FWST Emerg Heat Trace Controller) ☐ ✓

• 2EHTTC0001 (FWST Normal Heat Trace Controller) ☐ ✓

• 2EHTTC0002 (FWST Emerg Heat Trace Controller) ☐ ✓

b. **IF** "Low Limit Alarm" LIT on any Units FWST Heat Trace Panel,

THEN place the Emerg Heat Trace Controller for that Unit in "OVERRIDE" as applicable:

• 1EHTTC0002 (FWST Emerg Heat Trace Controller) ☐ N/A BWJ

• 2EHTTC0002 (FWST Emerg Heat Trace Controller) ☐ ✓

c. **IF** either Unit Emerg Heat Trace Controller placed in "OVERRIDE",

THEN notify Engineering for further guidance. ☐ N/A BWJ

Person Contacted

Date

Time

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7.0 INSTRUCTIONS (continued)

19. **Evaluate** temporary equipment spill containments by performing the following:..... ☐ ✓
- a. **Check** there is no water accumulation in all temporary equipment spill containments inside the Protected Area. [9.7.1]..... ☐ ✓
- b. **IF** any water accumulation is located in any temporary equipment spill containments, **THEN generate** Work Requests if required to ensure any water accumulation is removed..... n/a dm
- c. **Notify** Environmental to check for water accumulation in all permanent equipment spill containments at the site outside of the Protected Area. [9.7.2] BWJ
- JOHN BALUARD 10/17/22 1443
 Person Contacted Date Time
20. **IF** any discrepancies exist, **THEN** discrepancy sheet shall be reviewed by Shift Manager **OR** Designee for evaluation of actions required addressing cold weather concerns. n/a BWJ
21. **Verify** by checking associated Work Orders Maintenance **OR** SPOC has positioned all doghouse curtains. BWJ

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8.0 RECORDS

If required, completed portions of this procedure are attached to implementing WO (Work Orders) and transmitted to Document Control and Records Management (Master File) for retention per QA Program requirements.

9.0 REFERENCES

9.1 Commitments

None

9.2 Technical Specifications

None

9.3 Updated Final Safety Analysis Report

None

9.4 Drawings

None

9.5 Procedures

1. NSD 317, Freeze Protection Program
2. AD-FP-ALL-1523, Temporary Ignition Source Control
3. AD-WC-ALL-0210, Work Request Initiation, Screening, Prioritization And Classification

9.6 Vendor/Technical Manuals

None

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9.7 Miscellaneous

1. NCR 02167927
2. NCR 02171058
3. NCR 01670962
4. NCR 01676765
5. NCR 01678442
6. NCR 01645548
7. NCR 01661055
8. SAST 02176788

End of Body

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS

NOTE

WL drain header for AHU may be used to drain RV coils to WZ Sump A. ☐ 

1. **Contact** Radwaste Operator to determine proper location to direct RV drainage. 

2. **Prepare** tags per Preplan PP-00559. ☐  1135

NOTE

Step 3 - Step 8 may be performed in any order. ☐ 

3. **Perform** the following to isolate 1A Aux Bldg Supply AHU: ☐ 

a. **Tag** 1RV-26 (1A VA AHU RV Inlet Isol) CLOSED. 

b. **Tag** 1RV-27 (1A VA AHU RV Outlet Isol) CLOSED. 

NOTE

The hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☐ 

c. **Remove** pipe caps **AND** route drainage hose to location determined in Step 1 for: ☐ 

• 1RV-460 (1A VA AHU RV Drn) ☐ 

• 1RV-462 (1A VA AHU RV Drn) ☐ 

d. **Open** 1RV-460 (1A VA AHU RV Drn). 

e. **Open** 1RV-462 (1A VA AHU RV Drn). 

f. **Open** 1RV-459 (1A VA AHU RV Vt). 

g. **Open** 1RV-461 (1A VA AHU RV Vt). 

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS (continued)

4. **Perform** the following to isolate 1B Aux Bldg Supply AHU:..... ☐ ✓
- a. **Tag** 1RV-21 (1B VA AHU RV Inlet Isol) CLOSED..... ☐ ✓
- b. **Tag** 1RV-22 (1B VA AHU RV Outlet Isol) CLOSED..... ☐ ✓

NOTE

The hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☐ ✓

- c. **Remove** pipe caps **AND** route drainage hose to location determined in Step 1 for:..... ☐ ✓
- 1RV-464 (1B VA AHU RV Drn) ☐ ✓
 - 1RV-466 (1B VA AHU RV Drn) ☐ ✓
- d. **Open** 1RV-464 (1B VA AHU RV Drn). ☐ ✓
- e. **Open** 1RV-466 (1B VA AHU RV Drn). ☐ ✓
- f. **Open** 1RV-463 (1B VA AHU RV Vt). ☐ ✓
- g. **Open** 1RV-465 (1B VA AHU RV Vt). ☐ ✓

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS (continued)

5. **Perform** the following to isolate UNIT 1 Spent Fuel Pool Supply AHU: ☐ ✓
- a. **Tag** 1RV-16 (Unit 1 VF AHU RV Inlet Isol) CLOSED..... ☐ ✓
- b. **Tag** 1RV-17 (Unit 1 VF AHU RV Outlet Isol) CLOSED..... ☐ ✓

NOTE

The hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☐ ✓

- c. **Remove** pipe caps **AND** route drainage hose to location determined in Step 1 for: ☐ ✓
- 1RV-468 (Unit 1 VF AHU RV Drn)..... ☐ ✓
 - 1RV-470 (Unit 1 VF AHU RV Drn)..... ☐ ✓
- d. **Open** 1RV-468 (Unit 1 VF AHU RV Drn). ☐ ✓
- e. **Open** 1RV-470 (Unit 1 VF AHU RV Drn). ☐ ✓
- f. **Open** 1RV-467 (Unit 1 VF AHU RV Vt)..... ☐ ✓
- g. **Open** 1RV-469 (Unit 1 VF AHU RV Vt)..... ☐ ✓

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS (continued)

6. **Perform** the following to isolate 2A Aux Bldg Supply AHU:..... ☐ ✓
- a. **Tag** 2RV-26 (2A VA AHU RV Inlet Isol) CLOSED..... ☒ ✓
- b. **Tag** 2RV-27 (2A VA AHU RV Outlet Isol) CLOSED..... ☒ ✓

NOTE

The hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☐ ✓

- c. **Remove** pipe caps **AND** route drainage hose to location determined in Step 1 for:..... ☐ ✓
- 2RV-460 (2A VA AHU RV Drn) ☐ ✓
 - 2RV-462 (2A VA AHU RV Drn) ☐ ✓
- d. **Open** 2RV-460 (2A VA AHU RV Drn). ☒ ✓
- e. **Open** 2RV-462 (2A VA AHU RV Drn). ☒ ✓
- f. **Open** 2RV-459 (2A VA AHU RV Vt). ☒ ✓
- g. **Open** 2RV-461 (2A VA AHU RV Vt). ☒ ✓

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS (continued)

7. **Perform** the following to isolate 2B Aux Bldg Supply AHU:..... ☒ ✓
- a. **Tag** 2RV-21 (2B VA AHU RV Inlet Isol) CLOSED..... ☒ ✓
- b. **Tag** 2RV-22 (2B VA AHU RV Outlet Isol) CLOSED..... ☒ ✓

NOTE

The hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☒ ✓

- c. **Remove** pipe caps **AND route** drainage hose to location determined in Step 1 for:..... ☒ ✓
- 2RV-464 (2B VA AHU RV Drn) ☒ ✓
 - 2RV-466 (2B VA AHU RV Vt)..... ☒ ✓
- d. **Open** 2RV-464 (2B VA AHU RV Drn). ☒ ✓
- e. **Open** 2RV-466 (2B VA AHU RV Vt). ☒ ✓
- f. **Open** 2RV-463 (2B VA AHU RV Vt). ☒ ✓
- g. **Open** 2RV-465 (2B VA AHU RV Vt). ☒ ✓

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<< RV To VA And VF Supply AHUs Isolation >>

1.0 ISOLATION OF RV TO VA AND VF SUPPLY UNITS (continued)

8. **Perform** the following to isolate UNIT 2 Spent Fuel Pool Supply AHU: ☐ ✓
- a. **Tag** 2RV-16 (Unit 2 VF AHU RV Inlet Isol) CLOSED..... ☒ ✓
- b. **Tag** 2RV-17 (Unit 2 VF AHU RV Outlet Isol) CLOSED..... ☒ ✓

NOTE

This hose hookups in the following step are required to be maintained in place to ensure any leakage of RV will drain and coils will not freeze during winter. These hose hookups are not Temporary Modifications. ☐ ✓

- c. **Remove** pipe caps **AND** route drainage hose to location determined in Step 1 for: ☐ ✓
- 2RV-468 (Unit 2 VF AHU RV Drn)..... ☐ ✓
 - 2RV-470 (Unit 2 VF AHU RV Drn)..... ☐ ✓
- d. **Open** 2RV-468 (Unit 2 VF AHU RV Drn). ☒ ✓
- e. **Open** 2RV-470 (Unit 2 VF AHU RV Drn). ☒ ✓
- f. **Open** 2RV-467 (Unit 2 VF AHU RV Vt)..... ☒ ✓
- g. **Open** 2RV-469 (Unit 2 VF AHU RV Vt)..... ☒ ✓

End of Attachment