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Duke Energy Company MCGUIRE NUCLEAR STATION VERIFICATION OF FREEZE PROTECTION EQUIPMENT AND SYSTEMS		Procedure No. PT/0/B/4700/038
		Revision No. 036
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<input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA Checklists and/or blanks initialed, signed, dated, or filled in NA, as appropriate? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA Required attachments included? <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> NA Charts, graphs, data sheets, etc. attached, dated, identified, and marked? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> NA Calibrated Test Equipment, if used, checked out/in and referenced to this procedure? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> NA Procedure requirements met?		
Verified By * Printed Name and Signature David Bice		Date 10/31/21
Procedure Completion Approved * Printed Name and Signature Lucretia Mayfield		Date 10/31/21
Remarks (attach additional pages, if necessary) P - Lucretia Porter DB - David Bice SA - Spencer Mayfield MR - Mark Roskamp US - Terra Sanders		
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Procedure No.: *PT/0/B/4700/038*		Revision No.: *036*
		



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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 036

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Jan 27 2023

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REVISION SUMMARY
PRR 02353655 DESCRIPTION
<p>Rev 036</p> <p>1. PRR 02353655:</p> <ul style="list-style-type: none">• Combined Revision 035 Steps 12.4 and 12.5 into Section 7.0 Step 4. Request also requested all sub-steps of Revision 035 Step 12.5 be deleted. Could not delete what is now Section 7.0 Step 4.b due to NCR commitments.• Changed Section 7.0 Step 15 from checking building heating equipment operational in the Outsourced Water Treatment Building to Notifying Chemistry to perform that task. This step was also moved ahead of what is now Section 7.0 Step 16.• Revision 035 Steps 12.19 - 12.21 changed to sub-steps under new Section 7.0 Step 18.• Changed Section 7.0 Step 21 from "Hold until notified by Maintenance <u>OR</u> SPOC that all doghouse curtains have been positioned" to "Verify by checking associated Work Orders Maintenance <u>OR</u> SPOC has positioned all doghouse curtains", since Maintenance does this per Work Order steps.• Changed Note prior to Section 7.0 Step 2 to read Step 2 - Step 19 may be performed in any order or concurrently. <p>2. PAS Conversion.</p>

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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-EG-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] N/A DB
SRO

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). MR

Bryan Meyer 10/18/21 1048
Person Contacted Date Time

- 3. **Notify** Work Control to ensure the following initiated **OR** scheduled: MR

* Email sent to
Andy Tibbs

- Monthly PMs for 1EHTLPXXX1 (Model W/O 00393879) ☒
- Monthly PMs for 2EHTLPXXX1 (Model W/O 00393878) ☒
- Annual PM for 0EHTLPXXX1 (Model W/O 00394758) ☒

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7.0 INSTRUCTIONS (continued)

4. Notify Maintenance OR SPOC to perform the following:..... ML

Bryant Silvero 10/18/21 1700
Person Contacted Date Time

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

- UNIT 1 Interior Doghouse..... ☒
- UNIT 1 Exterior Doghouse ☒
- UNIT 2 Interior Doghouse..... ☒
- 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 SL
- UNIT 1 West CF Transmitter House SL
- UNIT 2 East CF Transmitter House SL
- UNIT 2 West CF Transmitter House SL

Ren Wood

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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

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:..... Yes
 - Turbine Building Intake Louvers correctly positioned ☒
 - Appropriate number of supply **AND** exhaust fans in service ☒
 - Unit heaters operating properly ☒

Phil Long 10/19/21 0343
 Person Contacted Date Time

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7.0 INSTRUCTIONS (continued)

13. **Notify** Chemistry to evaluate isolating **AND** draining the following:
[9.7.5] yes

- Radwaste Area Chilled Water Chemical Feeder ☒
- Hot Machine Shop Chilled Water Chemical Feeder ☒

India Townes 10/19/21 0346
Person Contacted Date Time

14. **Notify** Environmental Chemistry to ensure the following are
protected **OR** aligned for cold weather conditions: yes

- All Chemistry Portable Eye Wash stations ☒
- All Chemistry Permanent Eye Wash stations ☒
- All Safety Showers ☒

India Townes 10/19/21 0346
Person Contacted Date Time

15. **Notify** Chemistry to check building heating equipment operational in
the Outsourced Water Treatment Building. [9.7.4] yes

India Townes 10/19/21 0346
Person Contacted Date Time

16. **Complete** Attachment 1, RV To VA And VF Supply AHUs Isolation. P

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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: NA

• 1EHTTC0002 (FWST Emerg Heat Trace Controller) NA

• 2EHTTC0002 (FWST Emerg Heat Trace Controller) NA

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

THEN notify Engineering for further guidance. NA

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
- 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] 460
- India Townes 10/19/21 0346
 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
21. **Verify** by checking associated Work Orders Maintenance **OR** SPOC has positioned all doghouse curtains. MR

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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-EG-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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ATTACHMENT 1
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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. *OPS-0-1-RV-FreezeProt-1326* ☒
1227

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