

Electronic Procedure Package  
AP-301  
Quality Record

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## Quality Record

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Jan 27 2023

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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?	Yes
Calibrated test equipment,if used,checked out/in and references to this procedure?	Yes
Procedure requirement met?	Yes

Performed By(Printed Name and Signature): JOSHUA WILLIAMS ( JGWILL1 )  
Date:2022-10-05

Approved By(Printed Name and Signature): TIMOTHY SPEIGHT ( TMSPEIG )  
Date:2022-12-21

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## 1.0 PURPOSE

1. This procedure establishes guidelines for monitoring, operating, and maintaining equipment and instrumentation during periods of cold and hot weather.
2. Equipment that is installed to provide seasonal temperature control shall be removed at the end of the season.

## 2.0 SCOPE

1. This procedure applies to all areas of HNP that may be impacted by seasonal weather.

## 3.0 DEFINITIONS

1. **AP-301 Component:** A designator used on work orders in the Nature of Trouble Section to allow tracking of these work orders by Work Coordination. Should be annotated as either Cold weather or Hot weather component. The passport database can be electronically searched to identify these work orders.
2. **Cold Weather Operation:** Operation when the outside temperature is below 35°F.
3. **Hot Weather Operation:** Operation when the outside temperature is above 95 °F.
4. **Maximum Safe Generation (Max Safe Gen):** Generally the months of January, February, June, July and August
5. **Summer Operation:** Operation when outside temperature is expected to remain above 40°F. This is the period from April 1, to October 31. {7.1.1}
6. **Summer Readiness:** The period from June 1, through August 31, and may be extended at the discretion of the individual sites.
7. **Winter Readiness:** The period from December 1, through February 28, and may be extended at the discretion of the individual sites.

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<< Cold Weather Preparations >>

1.0 SECTION I - INSULATION, HEAT TRACE, FREEZE PROTECTION,  
TEMPERATURE MAINTENANCE INSPECTION

NOTE	
• Attachment steps may be performed in any order.....	<input type="checkbox"/> ✓
• These items in Section I may be performed any time prior to September 30 to allow early completion and will be scheduled by the On-Line schedule. Both Attachment 1 Section 1.0 and Attachment 1 Section 2.0 are required to be completed by September 30. ....	<input type="checkbox"/> ✓
• AD-MN-ALL-0017 'Housekeeping' Tags (or equivalent tags) are to be installed on temporary heaters and temporary heat trace to preclude inadvertent removal. Each tag should state 'AP-301 Compensatory Measure for Cold Weather. Do Not Remove Without SM Approval' and be added to the Temp Power Log at <a href="https://nuc.duke-energy.com/sites/HNPOPS/SiteAssets/TempPower/TempPower.xlsm">https://nuc.duke-energy.com/sites/HNPOPS/SiteAssets/TempPower/TempPower.xlsm</a> . ....	<input type="checkbox"/> ✓
• When installing temporary heaters, only one 30 kw or two 18 kw heaters, at most, may be installed at any one 480V power outlet. ....	<input type="checkbox"/> ✓
• Placement of temporary heaters shall comply with AD-EG-ALL-1523, Temporary Ignition Source Control (including separation distances) <b>AND</b> drawing 7-S-9517, Seasonal HVAC Equipment Installations. ....	<input type="checkbox"/> ✓

1. **Check** all insulation is properly installed (no exposed lines or valves) for the following: .....
  - a. LT-01CT-0990IW, RWST Level Ch I.....
  - b. LT-01CT-0991IIW, RWST Level Ch II.....
  - c. LT-01CT-0992IIIW, RWST Level Ch III.....
  - d. LT-01CT-0993IV, RWST Level Ch IV .....
  - e. RWST sample line: .....
    - 1CT-19, RWST Sample Root Isolation Valve .....
    - 1CT-20, RWST Sample Isolation Valve.....
  - f. Drain to RHT:
    - 1CT-13, RWST Drain Isolation Valve .....

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

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1.0 SECTION I - INSULATION, HEAT TRACE, FREEZE PROTECTION,  
TEMPERATURE MAINTENANCE INSPECTION (continued)



- g. Sensing lines for LT-7110:
- 1CT-18, LT-7110 Root Isol Vlv ..... 
- h. Hydro test pump suction line:
- 1CT-22, SIS Hydro Test Pump Suction from RWST ..... 





**NOTE**

It is expected that adequate inspections per the following step can be performed by the Auxiliary Operators (AO) during normal rounds. Inspection of each area listed below should be adequately accomplished in one shift by a qualified AO. Inspection of the entire plant should be completed within three to six shifts. These inspections should be performed preferably during daylight. .... ☐  

2. **Perform** the following for each area listed below: ..... 
- a. Visually **inspect** piping and components that will be exposed to freezing temperatures. .... 
- b. **Ensure** that heat tracing and insulation are intact..... 
- c. **Check** for broken, crushed, missing or wet insulation..... 

**NOTE**

AD-WC-ALL-0210 (WR Screening) contains the guidance to screen the Seasonal Weather concerns, including timing and prioritization.. .... ☐  

- d. **IF** any discrepancies are found,  
**THEN perform** the following: ..... 
- (1) **Ensure** a WR/WO has been generated for the deficiency. .... 
- (2) **Ensure** 'AP-301 Concern' is included in the WR description. .... 
- (3) **Ensure** 'Seasonal Weather' is added as an attribute to the WR/WO. .... 

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1.0 SECTION I - INSULATION, HEAT TRACE, FREEZE PROTECTION,  
TEMPERATURE MAINTENANCE INSPECTION (continued)

- e. **IF** any work orders are initiated,  
**THEN** list the work orders in Comments Section.....

Area	Initial	Area	Initial
TB-261 & COND PMP PIT	D	ESW & CTMU STRUCTURE	
TB-286	D	ESWSS & FIRE PUMPS	(1)
TB-314	D	WTB/WNB & OILY WST SE	
STEAM TUNNEL & RAB ROOF	D	AUX BOILER AREA	
TANK BLDG		CW & NSW PUMPS	
DIESEL BLDG		DEH SKID	
MANHOLE M70 SUMP PUMP SKID 1EE-E562		MANHOLE M71 SUMP PUMP SKID 1EE-E563	
MANHOLE M72 SUMP PUMP SKID 1EE-E564		MANHOLE M73 SUMP PUMP SKID 1EE-E565	
MANHOLE M84 SUMP PUMP SKID 1EE-E566		MANHOLE M86 SUMP PUMP SKID 1EE-E567	
MANHOLE M87 SUMP PUMP SKID 1EE-E568		MANHOLE M505 SUMP PUMP SKID 1EE-E569	
MANHOLE M511 SUMP PUMP SKID 1EE-E570		MANHOLE M512 SUMP PUMP SKID 1EE-E571	
MANHOLE M516 SUMP PUMP SKID 1EE-E572		MANHOLE M523 SUMP PUMP SKID 1EE-E573	
PIPE CROSSOVER AT 230KV TRENCH			

3. **Perform** the following for all Freeze Protection and Temperature Maintenance Systems:.....

- a. **Check** that all Freeze Protection and Temperature Maintenance Systems are operable per OP-161 and OP-161.01.....

- b. **IF** any component is found INOPERABLE,  
**THEN** perform the following:.....

- (1) **Ensure** a WR/WO has been generated for the deficiency. ....
- (2) **Ensure** 'AP-301 Concern' is included in the WR description. ....
- (3) **Ensure** 'Seasonal Weather' is added as an attribute to the WR/WO. ....

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1.0 SECTION I - INSULATION, HEAT TRACE, FREEZE PROTECTION,  
TEMPERATURE MAINTENANCE INSPECTION (continued)

- c. IF any work orders are initiated,  
THEN list work orders in the Comments Section..... N/A Sm

2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS

NOTE

- Attachment steps may be performed in any order..... ☒ ✓
- Items in Attachment 1 Section 2.0 should be performed closer to the  
September 30 date and will be scheduled by the On-Line Schedule. .... ☒ ✓
- AD-MN-ALL-0017 'Housekeeping' Tags (or equivalent tags) are to be installed  
on temporary heaters to preclude inadvertent removal. Each tag should state  
'AP-301 Compensatory Measure for Cold Weather. Do Not Remove Without  
SM Approval' and be added to the Temp Power Log at  
[https://nuc.duke-energy.com/sites/HNPOPS/  
SiteAssets/TempPower/TempPower.xlsm](https://nuc.duke-energy.com/sites/HNPOPS/SiteAssets/TempPower/TempPower.xlsm).. .... ☒ ✓
- When installing temporary heaters, only one 30 kw or two 18 kw heaters, at  
most, may be installed at any one 480V power outlet. .... ☒ ✓
- Placement of temporary heaters shall comply with AD-EG-ALL-1523,  
Temporary Ignition Source Control (including separation distances) AND  
drawing 7-S-9517, Seasonal HVAC Equipment Installations. .... ☒ ✓

1. **Perform** the applicable steps below for the following outside  
instrument cabinets:..... Q
- a. **Shut** any ventilation louvers..... Q
- b. **Check** the internal heaters/lights operating. {7.1.5} ..... Q  
Cabinets are located as follows:

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**2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS (continued)**

Table 1, Instrument Cabinets

Cabinet	Location	Initial	Cabinet	Location	Initial
T1-C15	T-261-AY7	✓	T1-C1	T-286-AV27	✓
T1-C23	T-261-AV14	✓	T1-C4	T-286-AP27	✓
T1-C22	T-261-AP19	✓	T1-C6	T-286-AP35	✓
T1-C24	T-261-AV27	✓	T1-C17	T-286-AV40	✓
T1-C10	T-261-AP27	✓	T1-C2	T-286-AM36	✓
T1-C12	T-261-AV30	✓	T1-C8	T-286-AK42	✓
T1-C26 [Note 2]	T-261-AV40	✓	T1-C7-RPS-IV	T-286-AH36Z	✓
T1-C19	T-261-AV35	✓	T1-C21-RPS-III	T-291-AH36Z	✓
T1-C20	T-261-AV40	✓	T1-C18	T-286-AA40	✓
T1-C13	T-261-AV40	✓	T1-C5	T-286-AF27	✓
T1-C14	T-261-AP42	✓	Y1-C9	NSW PMP A	Gm
T1-C3	T-261-AK40	✓	Y1-C10	CWP A (2)	Q
T1-C16	T-261-AK40	✓	Y21-C6	CTMU	Gm
T1-C11 conden sgt P.t	T-242-AF27	Q	Y21-C7-ESF-A	ESW PUMP A	Gm
T1-C25	T-261-AF19	✓	Y21-C8-ESF-B	ESW PUMP B	Gm
T1-C9	T-261-AF19	✓	Y21-C1	ESWSS	Gm
T1-C28 [Note 1]	T-265-AP9	✓	Y1-C3	MD FIRE PMP	Gm
Diesel Driven Fire Pump 1&4 NNS Inst Cab	ESWSS	R			

Note 1: T1-C28 light fixture is not wired

Note 2: Heater not installed.

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2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS (continued)

2. Perform ORT-1415. {7.1.6}..... *Scheduled For 9/13/22  
WO 20556857-03* **5**

**NOTE**

AD-WC-ALL-0210 (WR Screening) contains the guidance to screen the Seasonal Weather concerns, including timing and prioritization..... ☐ **✓**

- a. **IF** any inoperable heaters are found,  
**THEN ensure** the following:..... **5**
  - (1) **Ensure** a WR/WO has been generated for the deficiency. .... **5**
  - (2) **Ensure** 'AP-301 Concern' is included in the WR description. .... **5**
  - (3) **Ensure** 'Seasonal Weather' is added as an attribute to the WR/WO. .... **5**
- b. **IF** any EUH is anticipated to be inoperable after October 30,  
**THEN perform** the following:..... **N/A 5**
  - (1) **Identify** contingencies for maintaining room temperatures above freezing. Such contingencies may include temporary heaters to be installed or permanent H&V systems to be operated to maintain temperature. .... **1**
  - (2) **List** any such EUHs, the contingency plans and any associated work orders in the Comments section. .... **N/A 5**
- c. **IF** any permanent plant H&V unit is operated for freeze protection **OR** temperature maintenance,  
**THEN ensure** that a Caution Tag is placed on the control switch ..... **N/A 20**
- d. **IF** a temporary heater is installed,  
**THEN place** a AD-MN-ALL-0017 'Housekeeping' Tag (or equivalent tag) on the power cable per the Note on Page 4..... **20**

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2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS (continued)

- e. **IF** a temporary heater is installed,  
**THEN ensure** placement of the heater complies with  
AD-EG-ALL-1523 (including separation distances) **AND**  
drawing 7-S-9517, Seasonal HVAC Equipment Installations. .... ✓

**NOTE**

- In the past there has been a need to install a temporary heater(s) in the ASI pump room. This has been evaluated under EC 94965. .... ☐ ✓
- Historical Meteorological Data for the area shows winter temperatures will be below 32°F **AND** remain there for greater than 12 hours, therefore the heaters required to be installed for this condition will be installed as part of the cold weather preparations..... ☐ ✓
- Additional temporary heaters may be installed as conditions warrant per Attachment 2 Step 6..... ☐ ✓
- Placement of temporary heaters shall comply with AD-EG-ALL-1523, Temporary Ignition Source Control (including separation distances) **AND** drawing 7-S-9517, Seasonal HVAC Equipment Installations. .... ☐ ✓

3. **Install** the following Temporary Heaters since outside temperature is expected to go below 32°F **AND** remain there for greater than 12 hours:..... ✓

**Turbine Building**

- **Install** temporary heater in the Turbine Bldg 255' elev. North near 1CE-1057 (Feed Pump Seal Drain To Condenser Control Valve). See EC 401531. (Affects Generation) ..... ✓
- **Install** temporary heater in the Turbine Bldg 261' elev. North near 1CO-E031 (Portable Breathing Air Compressor). Concern is condensate may freeze and hamper the ability of the compressor to function properly.(BOP) See EC 401531 and EC 411055. .... NO

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2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS (continued)

- **Install** temporary heaters in the Turbine Bldg 261' Elev. West near FI-01CE-1920A (Condenser Vacuum Pump A Effluent Flow Ind) **AND** FI-01CE-1920B (Condenser Vacuum Pump B Effluent Flow Ind.). Concern is glass tube for flow Indicator may crack from internal water freezing. See EC 401531. (BOP)..... mom

**Turbine Building (continued)**

- **Ensure** a Work Order (PMID/RQ 20733-02) is scheduled to **install** a temporary heater in the Turbine Bldg 261' elev. Southeast near 1SFD-E030 (TB, EL 261 (LFDCP-9-1) to prevent spurious alarms by November 20. Installed internal heaters cannot cope with extreme temperatures. (Safety Related) See EC 401531 and AR 148743..... RS
- **Install** temporary heater in the Turbine Bldg 261' elev. Southeast near 1SFD-E037 (TB, EL 261 (LFDCP-9-2). Installed internal heaters cannot cope with extreme temperatures. (Safety Related) See EC 411055 ..... RS
- **Install** temporary heater in the Turbine Bldg 261' elev. Southeast near 1SFD-E017 (TB-Transformer Yard) LFDCP-11. Installed internal heaters cannot cope with extreme temperatures. (Safety Related) See EC 411055 ..... RS
- **Install** temporary heater in the Turbine Bldg 261' elev. Northwest near 1CAB-T1-C12 (Instrument Cabinet). Cabinet contains various pressure switches, indicators, and transmitters for Condensate and Feedwater systems. (Safety Related) See EC 411055 .... mom
- **Install** temporary heater in the Turbine Bldg 261' elev. Northwest near 1CAB-T1-C26 (Instrument Cabinet). Cabinet contains multiple pressure and flow transmitters for the Feedwater system. (Safety Related) See EC 411055..... mom

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### 2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS, TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT ACTIONS (continued)

- **Install** temporary heater outside the Turbine Bldg 261' elev. Southeast near LG-01HY-4198 (TB Hydrogen Oily Water Drain Tank Level Indicator). (BOP) See EC 401531 ..... mom

#### NSW Structure

- **Install** temporary heater near 1MP-65 (Cooling Tower Make-Up Flow Line Pressure Test Isol). This is a small pressure test point and vent valve off of the Cooling Tower Make-up level control valve bypass line. (BOP) See EC 411055 ..... J

#### ESW Structure

- **Install** temporary heater near 1CAB-Y21-C6 (Instrument Cabinet). Cabinet contains multiple pressure switches and indicators for the CTMU and CMTMU Screen Wash systems. (Safety Related) See EC 411055 ..... W
- a. **Install** a AD-MN-ALL-0017 'Housekeeping' Tag (or equivalent tag) on the heater power cable per the Note on Page 4..... H
- b. **Ensure** placement of the heater complies with AD-EG-ALL-1523 (including separation distances) **AND** drawing 7-S-9517, Seasonal HVAC Equipment Installations.. .... W
- c. **List** the location for each temporary heater installed as contingency for cold weather in Table 2, Temporary Heater Locations..... 2P
- 4. **Close** the following dampers in the EDG Unit 2 Corridor,:..... R
  - DG-D9-1 (Isolation Damper Diesel Generator Bldg Unit 2 Corridor)..... R
  - DG-D10-1 (Isolation Damper Diesel Generator Bldg Unit 2 Corridor)..... R

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2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS,  
TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT  
ACTIONS (continued)

5. **Direct** Chemistry to **perform** the following: ..... h
  - a. **Ensure** adequacy of enclosures **AND** heaters for outside chemical addition systems. .... h
  - b. **Ensure** adequacy of enclosure **AND** heater for surface water composite sampler at the main dam spillway. .... h
  - c. **Install** AD-MN-ALL-0017 'Housekeeping' Tags (or equivalent tag) on heater power supplies per the Note on Page 4. .... zf
6. **Ensure** a Work Order is scheduled to check that the Turbine Building Pre-action Sprinkler System has been drained prior to cold weather (PMID/RQ 40422-01), **AND** drain if required. .... 1  
20493505
7. **Ensure** ONE of the following for Warehouse 6 Dry-pipe Sprinkler System: ..... Q
  - System is aligned for normal operation and pressurized per OP-149, Section 8.3, Resetting Dry Pipe Sprinkler System in Warehouse #6 ..... Q
  - OR
  - System is drained and isolated with equipment protection clearance in place ..... NIAD
8. **Ensure** the Diesel Fire Pump keep warm system is FUNCTIONAL. The engine coolant heater maintains the coolant temperature at least 120°F. The engine should be warm to the touch in the water jacket areas. .... R
9. **Drain** Fuel Oil Storage Tank diked areas to prevent ice buildup. .... AKM
10. **Drain** the Aux Boiler Fuel Oil Tanks in-tank foam injection lines per PMID/RQ 40422-02 (Model WO 1128166). .... 515
11. After reviewing the Temporary Modification Log, **check** that any temporary plant support equipment or instrumentation is protected from freezing temperatures. .... h

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## 2.0 SECTION II - EHU AND INSTRUMENT CABINET INSPECTIONS, TEMPORARY HEATER INSTALLATION AND OUTSIDE EQUIPMENT ACTIONS (continued)

Comments: (List any discrepancies noted and work orders initiated)

WO 20489655-01 for Section I. WO 20495569-01 for Section Z.

- ① WR 20233228 written for degraded insulation on MDPF valves & piping in pit north of pump
- ② WR 20183512 written for missing heater in cabinet Y1-C10

Sections of Attachment performed:

Section I Section II  
(circle Section performed)

L Lewis

Attachment Performed by:

J James Peeler  
J JASON WEARING

Initial	Name (Print)	Initial	Name (Print)
T	Trevor McLendon	R	Ryan Veldenski
N	Nick Porton	D	JOSH DILLS
Gm	Greg Mauldsby Jr.	Q	QAYS EL-ALI
KCS	KEITH BRYAN	Tim	Timothy J. Manfredi
S	Mike	R	Robert
RS	Ric Davis	R	Bradley A Rouse
mm	M.C. MALONEY	T	Shane McDade

Completed By:

Scott  
Control Room Supervisor Print / Sign

10/7/22  
Date

Reviewed By:

M. Merletto  
Shift Manager Print / Sign

10/7/2022  
Date

Reviewed By:

B. BOWENS  
Online Manager Print / Sign

12/19/22  
Date

After receiving the final review signature, this Attachment becomes a QA Record.

W Gray Williams