

## Station Logs 12/19-25/22

BNP

## -Weather

BNP Operations Unit 1 Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 02:22:38	Started 1C Cond. Transfer Pump IAW CO Rounds Cold Weather Checks at 25°F. Pump is to be swapped at 0622 if temp remains below 25°F.
BNP Operations Unit 1 Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 17:15:00	Call from ECC [REDACTED]: as of 17:15 the DEP grid is improving from Grid Condition Purple to Grid Condition Red. This condition is expected to last at least until 12/25/2022 as weather impacted generation is restored.
BNP Operations Unit 2 Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 02:10:00	Swapped and started a second Condensate Transfer Pump and Demin Water Transfer Pump per OOP-31.2, Condensate and Demineralized Water Storage and Transfer System, section 6.3.19 to support 25F Cold Weather Bill checks.

## -Grid

BNP Operations Unit 1 Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:46:08	<p>Notified by Email and confirmed by ECC [REDACTED] that Duke Energy Progress Grid is scheduled to go "YELLOW HANDS OFF" starting Dec 23rd 18:00 through Monday Dec 26th 16:00. Referenced and reviewed with the crew the limitations associated with restrictions required with implementation of AD-WC-ALL-0260 Nuclear Generation Response to High or Low Grid System Load. Both Unit 1 and 2 have reviewed OROP-22 Grid Instability. This will preclude operation of DG #2 Testing currently scheduled for Sunday Night into Monday Morning. SDM [REDACTED] and WWM [REDACTED] informed. [This Entry Copied From BNP Operations Unit 2 Log - Dayshift - 12/23/2022 [REDACTED] Shift Manager]</p>
BNP Operations Unit 1 Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/23/2022 18:00:00	<p>[REDACTED]</p> <p>Unit Mode: 1 Reactor Power: 100% Risk Condition: Green Gross Generator MWe: 992 Net Generator MWe: 970 A Recirc pump Speed: 81.2% B Recirc pump speed: 81.3% Core Flow: 69.5mlbm/hr Spent Fuel Pool time to 200°F: 97.4 hours</p> <p>Notified by Email and confirmed by ECC [REDACTED] that Duke Energy Progress Grid is in condition "YELLOW HANDS OFF" starting Dec 23rd 18:00 through Monday Dec 26th 16:00. Referenced and reviewed with the crew the limitations associated with restrictions required with implementation of AD-WC-ALL-0260 Nuclear Generation Response to High or Low Grid System</p>

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Load.  
Both Unit 1 and 2 have reviewed OAOP-22 Grid Instability.  
This restriction precludes operation of DG #2 Testing currently scheduled for Sunday Night into Monday Morning.  
SDM [REDACTED] and WWM [REDACTED] informed.

## BNP Operations Unit 1 Log 12/24/2022 Dayshift

Log Date Time	Log Entry
12/24/2022 06:32:24	[REDACTED] the ECC has informed Brunswick U1 and U2 that our region is in grid status purple. Voltage is still adequate for a LOCA. Grid status purple is estimated to be exited at 1000. OAOP-22 has been referenced.
12/24/2022 10:06:00	Annotate: ECC [REDACTED] was contacted about grid status. Current status is still purple and actively restoring loads. ECC will notify BNP when grid status changes.
12/24/2022 18:00:00	Annotate: Notified by Corporate Duty Manager [REDACTED] the ECC has improved DEP grid status to RED at 17:00. Per OOI001.01, BNP Conduct of Operations, RED status indicated Load Management Procedures are in effect. Nightshift crew will review OAOP-22, Grid Instabilities, and OAOP-36.1, Loss of any 4160 V or 480 V Busses. Voltage remains adequate for LOCA Voltage support.
12/24/2022 17:15:00	Call from ECC [REDACTED] as of 17:15 the DEP grid is improving from Grid Condition Purple to Grid Condition Red. This condition is expected to last at least until 12/25/2022 as weather impacted generation is restored.

## BNP Operations Unit 1 Log 12/24/2022 Nightshift

Log Date Time	Log Entry
12/24/2022 18:00:00	[REDACTED]  Unit Mode: 1 Reactor Power: 100% Risk Condition: Green Gross Generator MWe: 993 Net Generator MWe: 971 A Recirc pump Speed: 81.2% B Recirc pump speed: 81.3% Core Flow: 69.2 mlbm/hr Spent Fuel Pool time to 200°F: 97.2 hours  Notified by Corporate Duty Manager [REDACTED] the ECC has improved DEP grid status to RED as of 17:00, 12/24/22. Per OOI-01.01, BNP Conduct of Operations, RED status indicated Load Management Procedures are in effect. Crew has reviewed OAOP-22, Grid Instabilities, and OAOP-36.1, Loss of any 4160 V or 480 V Bus. Per ECC, Voltage remains adequate for LOCA Voltage support.

## BNP Operations Unit 2 Log 12/23/2022 Dayshift

Log Date Time	Log Entry
12/23/2022 14:46:08	Notified by Email and confirmed by ECC [REDACTED] that Duke Energy Progress Grid is scheduled to go "YELLOW HANDS OFF" starting Dec 23rd 18:00 through Monday Dec 26th 16:00. Referenced and reviewed with the crew the limitations associated with restrictions required with implementation of AD-WC-ALL-0260 Nuclear Generation Response to High or Low Grid System Load. Both Unit 1 and 2 have reviewed OAOP-22 Grid Instability This will preclude operation of DG #2 Testing currently scheduled for Sunday Night into Monday Morning. SDM [REDACTED] and WWM [REDACTED] informed.

Station Logs 12/19-25/22

BNP Operations Unit 2 Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 06:32:24	<p>██████████ the ECC has informed Brunswick U1 and U2 that our region is in grid status purple.</p> <p>Voltage is still adequate for a LOCA. Grid status purple is estimated to be exited at 1000. OAOP-22 has been referenced. [This Entry Copied From BNP Operations Unit 1 Log - Dayshift - 12/24/2022 by ██████████ Unit 1 RO #2]</p>
12/24/2022 06:50:00	Annotate: Briefed bldg operators on their duties for AOP-22 grid instabilities and AOP-36.1 loss of 4160 or 480v busses.
12/24/2022 18:00:00	<p>Annotate: Notified by Corporate Duty Manager ██████████ the ECC has improved DEP grid status to RED at 17:00. Per OOI001.01, BNP Conduct of Operations, RED status indicated Load Management Procedures are in effect.</p> <p>Nightshift crew will review OAOP-22, Grid Instabilities, and OAOP-36.1, Loss of any 4160 V or 480 V Busses.</p> <p>Voltage remains adequate for LOCA Voltage support.</p>
BNP Operations Unit 2 Log 12/24/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 19:09:28	Annotate: Briefed Unit 2 shift crew on responsibilities for OAOP-22 "Grid Instabilities" and OAOP-36.1 "Loss of 4KV or 480V E-Bus".

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## Station Logs 12/19-25/22

CNS

-Weather

CNS Unit 1 Operations Log 12/20/2022 Nightshift	
Log Date Time	Log Entry
12/21/2022 03:31:17	Control Room Crew has completed an OPS Proficiency Exercise related to Extreme cold weather PT and actions for Dry bulb temperature being less than 32F in accordance with CSD-OP-ALL-0103.
CNS Unit 1 Operations Log 12/22/2022 Dayshift	
Log Date Time	Log Entry
12/22/2022 07:37:20	Field Supervisors and AOs completed an OPS Proficiency Exercise related to actions to take in case of extreme cold weather including referencing procedures and locations of temporary electric heaters due to impending cold weather conditions in accordance with CSD-OP-ALL-0103.
CNS Unit 1 Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 15:40:00	Stopped 1A7, 1B7 & 1C7 Cooling Tower Fan per OP/1/B/6400/001 A Cooling Tower Fan Operation During Cold Weather Conditions.
CNS Unit 1 Operations Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/23/2022 19:51:00	Started Procedure: PT/0/B/4700/038 Procedure Title: Cold weather protection Component: enclosure 13.4 Verification of site systems during extreme cold weather conditions Test Group: Ops
12/24/2022 02:05:16	Secured 1A10 & 1B10 Cooling Tower Fans per OP/1/B/6400/001 A (Condenser Circulating Water System), Enclosure 4.11 (Cooling Tower Fan Operation During Cold Weather Conditions) to raise average RC inlet temperature.
CNS Unit 1 Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 19:51:00	Started Procedure: PT/0/B/4700/038 Procedure Title: Cold weather protection Component: enclosure 13.4 Verification of site systems during extreme cold weather conditions Test Group: Ops
12/24/2022 17:15:50	Annotate: Completed Procedure: PT/0/B/4700/038 Procedure Title: Cold weather protection Component: enclosure 13.4 Verification of site systems during extreme cold weather conditions Completed SAT
12/24/2022 10:33:00	Performed Procedure: OP/1/B/6400/001 A, Encl. 4.11. Procedure Title: Cooling Tower Fan Operation During Cold Weather Conditions. Component: 1A11, 1B11, 1C11 RC CT Fans were secured
12/24/2022 13:41:28	Performed Procedure: OP/1/B/6400/001 A, Encl. 4.11. Procedure Title: Cooling Tower Fan Operation During Cold Weather Conditions. Component: 1A8, 1B8, 1C8 RC CT Fans were secured
CNS Unit 1 Operations Log 12/24/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 20:12:56	Secured all 1A Cooling Tower Fans per OP/1/B/6400/001 A (Condenser Circulating Water System), Enclosure 4.11 (Cooling Tower Fan Operation During Cold Weather Conditions) for ice melt of 1A Cooling Tower.

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CNS Unit 2 Operations Log 12/20/2022 Nightshift	
Log Date Time @	Log Entry
12/21/2022 03:31:17	Control Room Crew has completed an OPS Proficiency Exercise related to Extreme cold weather PT and actions for Dry bulb temperature being less than 32F in accordance with CSD-OP-ALL-0103. [This Entry Copied From CNS Unit 1 Operations Log - Nightshift - 12/20/2022 by ██████████ CRS Unit 1 (ERO)]
CNS Unit 2 Operations Log 12/22/2022 Dayshift	
Log Date Time @	Log Entry
12/22/2022 07:37:20	Field Supervisors and AOs completed an OPS Proficiency Exercise related to actions to take in case of extreme cold weather including referencing procedures and locations of temporary electric heaters due to impending cold weather conditions in accordance with CSD-OP-ALL-0103. [This Entry Copied From CNS Unit 1 Operations Log - Dayshift - 12/22/2022 by ██████████ CRS Unit 1(ERO)]
CNS Unit 2 Operations Log 12/23/2022 Dayshift	
Log Date Time @	Log Entry
12/23/2022 12:46:30	Secured the 2A7, 2B7 and 2C7 Cooling Tower Fans per OP/2/B/6400/001 A for cold weather.
12/23/2022 17:02:19	Secured the 2A10, 2B10 and 2C10 Cooling Tower Fans per OP/2/B/6400/001 A for cold weather.
CNS Unit 2 Operations Log 12/24/2022 Dayshift	
Log Date Time @	Log Entry
12/24/2022 13:03:08	Secured 2B4 and 2C4 cooling tower fans per OP/2/B/6400/001A "Condenser Circulating Water System" Enclosure 4.11 "Cooling Tower Fan Operation During Cold Weather Conditions" due to cooling tower icing.
12/24/2022 14:13:05	Annotate: Started 2A7, 2A10, 2A11, 2A13, 2C4, 2C7, 2C10 and 2C11 cooling tower fans and Secured all 2B cooling tower fans per OP/2/B/6400/001A "Condenser Circulating Water System" Enclosure 4.11 "Cooling Tower Fan Operation During Cold Weather Conditions" due to cooling tower icing.
12/24/2022 16:41:07	Annotate: Secured 2A7 and 2C7 cooling tower fans per OP/2/B/6400/001A "Condenser Circulating Water System" Enclosure 4.11 "Cooling Tower Fan Operation During Cold Weather Conditions" to aid in de-icing 2B cooling tower.

## -Grid

CNS Unit 1 Operations Log 12/24/2022 Dayshift	
Log Date Time @	Log Entry
12/23/2022 14:49:31	Notified by ██████████ BA that the GRID Status has changed to YELLOW HANDS OFF, until Monday 12/26/22 @ 1200.
12/24/2022 07:43:15	Notified by ██████████ BA that the GRID Status has changed to Purple, until approximately 1500.
12/24/2022 16:05:00	Annotate: Notified by Nate Smock at BA that the GRID Status has returned to Yellow Hands OFF at 1600.
12/24/2022 09:09:18	CNS Unit 1 has Entered AP/1/A/5500/037 Case III Potential Degraded Grid Conditions based on DEC BA (Balancing Authority) notification that a "Red Grid" condition exists or is predicted within the next 24 hours.
12/24/2022 16:11:38	██████████ P/1/A/5500/037 Generator Voltage and Electric Grid Disturbances Case III (Potential Degraded Grid Conditions) based on returning to Yellow Hands Off Grid ██████████ potential grid voltage or frequency conditions, and RTCA ██████████ voltage will remain adequate.

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CNS Unit 2 Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:49:31	Notified by [REDACTED] BA that the GRID Status has changed to YELLOW HANDS OFF, until Monday 12/26/22 @ 1200. [This Entry Copied From CNS Unit 1 Operations Log - Dayshift - 12/23/2022 by [REDACTED] CRS Unit 1(ERO)]
12/24/2022 07:43:15	Notified by [REDACTED] BA that the GRID Status has changed to Purple, until approximately 1500.
12/24/2022 09:00:00	Annotate: CNS Unit 2 has Entered AP/2/A/5500/37 GENERATOR VOLTAGE AND ELECTRIC GRID DISTURBANCES CASE III Potential Degraded Grid Conditions based on Purple Grid Condition.  [REDACTED] was contacted - Real Time Contingency Analysis (RTCA) indicates Grid voltage would remain adequate if additional degradation occurs
12/24/2022 16:00:00	Annotate: Notified by [REDACTED] BA that the GRID Status has changed to Yellow hands-off at 1600.
12/24/2022 16:06:29	Annotate: CNS Unit 2 has Exited AP/2/A/5500/37 GENERATOR VOLTAGE AND ELECTRIC GRID DISTURBANCES CASE III Potential Degraded Grid Conditions based on return to Yellow Hands-Off generation grid status.

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## Station Logs 12/19-25/22

HNP

## -Weather

HNP Operations Log 12/18/2022 Nightshift	
Log Date Time	Log Entry
12/19/2022 00:06:09	Commenced AP-301, SEASONAL WEATHER PREPARATIONS AND MONITORING, Attachment 2.
HNP Operations Log 12/21/2022 Dayshift	
Log Date Time	Log Entry
12/21/2022 06:15:00	Ambient temperature is < 35 °F, AP-301, SEASONAL WEATHER PREPARATIONS AND MONITORING, Attachment 2 is in progress. The SIC has been notified.
HNP Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:01:35	Completed AP-300 SEVERE WEATHER RESPONSE attachment 17 Extreme Cold Weather Preparations walkdown of the Water Treatment Building. No imminent freezing concerns at this time. Debriefed with [REDACTED]
12/23/2022 15:04:29	Completed AP-300 SEVERE WEATHER RESPONSE attachment 17 Extreme Cold Weather Preparations walkdown of turbine building and SUTs. No imminent freezing concerns at this time. Debriefed with [REDACTED]
12/23/2022 17:20:21	Completed AP-300 SEVERE WEATHER RESPONSE Attachment 17 Extreme Cold Weather Preparations walkdown of Outside watchstation areas. No imminent freezing concerns at this time. Debriefed with [REDACTED]
HNP Operations Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 01:22:07	Annotate: TFP0090 (TB Elevator Fire Recall Panel) for Zone 1-127 is only associated with the photoelectric detection located inside the TB elevator electrical room. TFP0089 (fire) and TFP0090 (trouble) were changed from spare points to active points per EC 405505 (in 2017). These points are not part of the TB fire detection loops (ionization or thermal). Historical evidence has shown that when cold weather is present, spurious alarms are received on LFDCP-9 and LFDCP-11. Temp heaters are currently in place on these panels as directed by AP-301 SEASONAL WEATHER PREPARATIONS AND MONITORING.  Should TFP0089 or TFP0090 lock in and not clear the elevator may be de-energized to remove the ignition source and the fire points removed from poll. FPP-013 FIRE PROTECTION MINIMUM REQUIREMENTS credits the conventional fire detection circuits (ionization detection TFP0010) which remain functional for the area.
12/24/2022 04:02:28	As required by AP-300 (SEVERE WEATHER RESPONSE), independent/qualified operators have performed additional field inspections of freeze-sensitive equipment in the Turbine Building, Water Treatment Building, and Outside areas.
HNP Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 17:09:40	As required by AP-300 (SEVERE WEATHER RESPONSE), independent/qualified operators have performed additional field inspections of freeze-sensitive equipment in the Turbine Building, Water Treatment Building, and Outside areas.

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## Station Logs 12/19-25/22

## -Grid

HNP Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:31:18	<p>Notified by the Corporate Duty Manager that Duke Energy Progress has entered a YELLOW HANDS OFF Grid Status until 12/26.</p> <p>Actions for Yellow Hands Off per Attachment 1 of AD-WC-ALL-0260, NUCLEAR GENERATION RESPONSE TO HIGH OR LOW GRID SYSTEM LOAD:</p> <p>Stop, expedite, or closely manage work within the affected Grid System:</p> <ul style="list-style-type: none"> <li>- Coded OR or CV</li> <li>- Ensure systems relied upon during a loss-of-off-site power event (e.g., emergency diesel generators, emergency cooling water, auxiliary feedwater systems) are available.</li> <li>- All items that can result in a unit trip, inadvertent reduction in power, or an entry into a short duration action statement (i.e., 72 hours or less) should be deferred.</li> <li>- The site may compute a Risk Informed Completion Time (RICT) to permit work to continue, as long as the computed time exceeds 72 hours beyond the anticipated duration of the grid status.</li> <li>- Switchyard work will only be allowed with concurrence between the ECC and the Plant Manager.</li> <li>- If work activities cannot be deferred (e.g., surveillance challenging the late date), then the Plant Manager must approve the work and endorse risk mitigating actions</li> </ul>
HNP Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 06:30:00	ECC Operator [REDACTED] contacted the MCR to inform the Harris Plant that the Grid is in Status Purple.
12/24/2022 07:20:00	<p>Annotate: Following discussion with the Duty Manager, HNP will be following the Red Grid Status Work Management Guidance per AD-WC-ALL-0260, NUCLEAR GENERATION RESPONSE TO HIGH OR LOW GRID SYSTEM LOAD. The following actions apply:</p> <p>Evaluate all work, pursue extension of deadlines, and initiate work stand down.</p> <ul style="list-style-type: none"> <li>- Plant Manager shall:               <ol style="list-style-type: none"> <li>1) Authorize a work stand down.</li> <li>2) Approve performance of all OR or CV Coded work activities essential for continued operation.</li> </ol> </li> <li>- Review the Abnormal Procedure for degraded grid at each station.</li> </ul> <p>Plant Manager shall report all OR, CV, and switchyard work activities approved and short duration action statements at the station during the next Daily Fleet Status call.</p>
12/24/2022 07:29:39	Per AD-WC-ALL-0260 NUCLEAR GENERATION RESPONSE TO HIGH OR LOW GRID SYSTEM LOAD guidance on entering Red Grid Status the main control room staff conducted a brief of AOP-028 GRID INSTABILITY.
12/24/2022 17:15:00	ECC shift manager [REDACTED] notified the MCR that the grid is red status.



Station Logs 12/19-25/22

HNP Operations Log 12/24/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 18:00:00	<p>Due to Red Grid Status , HNP will be following the Red Grid Status Work Management Guidance per AD-WC-ALL-0260, NUCLEAR GENERATION RESPONSE TO HIGH OR LOW GRID SYSTEM LOAD. The following actions apply:</p> <p>Evaluate all work, pursue extension of deadlines, and initiate work stand down.</p> <p>- Plant Manager shall:</p> <ol style="list-style-type: none"> <li>1) Authorize a work stand down.</li> <li>2) Approve performance of all OR or CV Coded work activities essential for continued operation.</li> </ol> <p>- Review the Abnormal Procedure for degraded grid at each station.</p> <p>Plant Manager shall report all OR, CV, and switchyard work activities approved and short duration action statements at the station during the next Daily Fleet Status call</p>
12/24/2022 18:20:00	<p>Annotate: Performed a phoenix risk assessment per CSD-WC-HNP-0240-00 HNP ERAT GUIDANCE for the most restrictive plant alignment during the period of time the grid is expected to be in a RED status (%T5Gx5):</p> <ul style="list-style-type: none"> <li>• CDF = 3.51E-5</li> <li>• LERF = 3.25E-6</li> <li>• Plant risk remains GREEN</li> </ul>

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Station Logs 12/19-25/22

MNS

-Weather

MNS Unit 1 Operations 12/23/2022 Day Shift	
Log Date Time	Log Entry
12/23/2022 08:30:00	Operations entered PT/O/B/4700/070 ON DEMAND FREEZE PROTECTION VERIFICATION CHECKLIST based on 24 hour weather forecast of a high temperature less than OR equal to 32°F with a low temperature less than 20°F.

-Grid

MNS Unit 1 Operations 12/23/2022 Day Shift	
Log Date Time	Log Entry
12/23/2022 14:46:53	DEC Balancing Authority [REDACTED] called to notify MNS that at 1800, the grid will be "Yellow - Hands Off".
MNS Unit 1 Operations 12/24/2022 Day Shift	
Log Date Time	Log Entry
12/24/2022 07:43:00	DEC Balancing Authority [REDACTED] called to inform MNS that the grid status is now "PURPLE", with rotating load sheds. All Offsite available.
12/24/2022 09:10:00	Entered AP 05 - Generator Voltage and Electric Grid Disturbances due to grid condition purple.
12/24/2022 15:55:00	Received phone call from DEC Balancing Authority [REDACTED] that the grid will be "YELLOW - HANDS OFF" condition at 1600 today and is not predicted to change for the remainder of the weekend.
12/24/2022 16:02:38	Exited AP 05 (Generator Voltage and Electric Grid Disturbances) due to grid changing to yellow - hands off condition.

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Station Logs 12/19-25/22

ONS

-Grid

ONS Unit 1 Operator Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:47:47	<p>At 14:47, Notified by [REDACTED] the TCC that the grid is YELLOW Hands Off until Monday 12/26/22 12:00.</p> <p>From AD-WC-ALL-0260 (Nuclear Generation Response to High or Low Grid System Load).</p> <p>Stop, expedite, or closely manage work within the affected Grid System:</p> <ul style="list-style-type: none"> <li>• Coded OR or CV</li> <li>• Ensure systems relied upon during a loss-of-off-site power event (e.g., emergency diesel generators, emergency cooling water, auxiliary feedwater systems) are available.</li> <li>• All items that can result in a unit trip, inadvertent reduction in power, or an entry into a short duration action statement (i.e., 72 hours or less) should be deferred.</li> <li>• The site may compute a Risk Informed Completion Time (RICT) to permit work to continue, as long as the computed time exceeds 72 hours beyond the anticipated duration of the grid status.</li> <li>• Switchyard work will only be allowed with concurrence between the ECC and the Plant Manager.</li> <li>• If work activities cannot be deferred (e.g., surveillance challenging the late date), then the Plant Manager must approve the work and endorse risk mitigating actions</li> </ul> <p>Plant Manager shall report all OR or CV work activities approved at the Plant Manager's station during the next Daily Fleet Status call.</p>
ONS Unit 1 Operator Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 07:45:00	At 0745, Notified by [REDACTED] the TCC that the grid is PURPLE.
12/24/2022 07:45:00	<p>ABNORMAL PROCEDURE ENTRY:</p> <p>At time 0745 Unit 1 entered AP-34 due to Grid Condition PURPLE.</p> <p>Operations management informed.</p>
12/24/2022 16:00:42	The grid is "Yellow Hands Off" at 1600 [REDACTED]
ONS Unit 2 Operator Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:47:47	<p>At 14:47, Notified by [REDACTED] the TCC that the grid is YELLOW Hands Off until Monday 12/26/22 12:00.</p> <p>Reference AD-WC-ALL-0260 (Nuclear Generation Response to High or Low Grid System Load) Attachment 1 Grid Status Work Management Guidance.</p>

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ONS Unit 2 Operator Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 07:45:00	At 0745, Notified by [REDACTED] the TCC that the grid is PURPLE.  This condition is beyond RED as referenced in AD-WC-ALL-0260 (Nuclear Generation Response to High or Low Grid System Load).  SM/STA notified  [This Entry Copied From ONS Unit 1 Operator Log - Dayshift - 12/24/2022 by [REDACTED] U1 BOP]
ONS Unit 3 Operator Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 14:47:47	At 14:47, Notified by [REDACTED] the TCC that the grid is YELLOW Hands Off until Monday 12/26/22 12:00.  From AD-WC-ALL-0260 (Nuclear Generation Response to High or Low Grid System Load).  Stop, expedite, or closely manage work within the affected Grid System: <ul style="list-style-type: none"> <li>• Coded OR or CV</li> <li>• Ensure systems relied upon during a loss-of-off-site power event (e.g., emergency diesel generators, emergency cooling water, auxiliary feedwater systems) are available.</li> <li>• All items that can result in a unit trip, inadvertent reduction in power, or an entry into a short duration action statement (i.e., 72 hours or less) should be deferred.</li> <li>• The site may compute a Risk Informed Completion Time (RICT) to permit work to continue, as long as the computed time exceeds 72 hours beyond the anticipated duration of the grid status.</li> <li>• Switchyard work will only be allowed with concurrence between the ECC and the Plant Manager.</li> <li>• If work activities cannot be deferred (e.g., surveillance challenging the late date), then the Plant Manager must approve the work and endorse risk mitigating actions</li> </ul> Plant Manager shall report all OR or CV work activities approved at the Plant Manager's station during the next Daily Fleet Status call.  [This Entry Copied From ONS Unit 1 Operator Log - Dayshift - 12/23/2022 by [REDACTED] U1 BOP]
ONS Unit 3 Operator Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 07:45:00	ABNORMAL PROCEDURE ENTRY:  At time 0745 Unit 3 entered AP-34 due to Grid Condition PURPLE.  Operations management informed.
12/24/2022 07:45:00	At 0745, Notified by [REDACTED] the TCC that the grid is PURPLE.  This condition is beyond RED as referenced in AD-WC-ALL-0260 (Nuclear Generation Response to High or Low Grid System Load).  SM/STA notified  [This Entry Copied From ONS Unit 1 Operator Log - Dayshift - 12/24/2022 by [REDACTED] U1 BOP]
12/24/2022 16:00:00	Annotate: At time 1600 The grid is "Yellow Hands Off" per ECC [REDACTED] SM/STA notified



Station Logs 12/19-25/22

RNP

-Weather

RNP Operations Log 12/18/2022 Nightshift	
Log Date Time	Log Entry
12/19/2022 02:00:00	Ambient Temperature is 32F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
RNP Operations Log 12/19/2022 Dayshift	
Log Date Time	Log Entry
12/19/2022 06:00:00	Ambient temperature is <35°F. AO's notified per OP-925 'Cold Weather Operation'.
RNP Operations Log 12/19/2022 Nightshift	
Log Date Time	Log Entry
12/19/2022 17:58:00	Ambient temperature is <42°F. AO's notified per OP-925 'Cold Weather Operation'.
12/19/2022 18:08:55	Annotate: OP-925 Cold Weather Operation: 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <45 degrees F.
12/19/2022 19:16:58	Annotate: OP-925 (Cold Weather Operation), Section 6.2.5 "MWT Auxiliary Operator Actions for Cold Weather" checks have been completed satisfactorily for 42 degrees F.
12/19/2022 21:45:24	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
RNP Operations Log 12/20/2022 Dayshift	
Log Date Time	Log Entry
12/20/2022 10:32:12	Status Control Tags verified hung for PSC-2-22-5045-EXCITER COOL-0099. Per OP-925, Cold Weather Operation, the Exciter Coolers will be drained due to not being in service during cold weather..
RNP Operations Log 12/21/2022 Nightshift	
Log Date Time	Log Entry
12/21/2022 18:35:38	Ambient Temperature is less than 42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/21/2022 21:37:14	Annotate: OP-925 Cold Weather Operation, Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
12/22/2022 20:00:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
RNP Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 09:03:57	Ambient Temperature is <42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/23/2022 13:25:00	Annotate: Ambient Temperature is <35F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/23/2022 09:30:00	Annotate: OP-925 Cold Weather Operation, Section 6.2.6 Fire Protection Auxiliary Operator Actions for Cold Weather, checks have been completed satisfactorily for <42 degrees F.
12/23/2022 11:35:00	OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <42 degrees F.
12/23/2022 15:00:00	Performed att. 8 of OP-925 COLD WEATHER OPERATION.
12/23/2022 15:20:00	Annotate: Blowdown the Construction Air Compressor receiver IAW OP-925 COLD WEATHER OPERATION.
12/23/2022 16:09:54	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <35 & <32 degrees F.

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## Station Logs 12/19-25/22

RNP Operations Log 12/21/2022 Nightshift	
Log Date Time	Log Entry
12/21/2022 18:35:38	Ambient Temperature is less than 42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/21/2022 21:37:14	Annotate: OP-925 Cold Weather Operation, Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
12/22/2022 20:00:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
RNP Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 09:03:57	Ambient Temperature is <42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/23/2022 13:25:00	Annotate: Ambient Temperature is <35F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/23/2022 09:30:00	Annotate: OP-925 Cold Weather Operation, Section 6.2.6 Fire Protection Auxiliary Operator Actions for Cold Weather, checks have been completed satisfactorily for <42 degrees F.
12/23/2022 11:35:00	OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <42 degrees F.
12/23/2022 15:00:00	Performed att. 8 of OP-925 COLD WEATHER OPERATION.
12/23/2022 15:20:00	Annotate: Blowdown the Construction Air Compressor receiver IAW OP-925 COLD WEATHER OPERATION.
12/23/2022 16:09:54	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <35 & <32 degrees F.
RNP Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 07:15:00	Annotate: OP-925 Cold Weather Operation, Section 6.2.5 MWT Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <15 degrees F.
12/24/2022 08:11:37	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 15 degrees F. EDG Fuel Oil Transfer Pump A & B Discharge Piping Temperatures as follows: A= 28.8 Deg F / B= 29.3 Deg F
12/24/2022 06:00:00	Ambient Temperature is <15F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 09:42:25	Annotate: Ambient Temperature is >15F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 09:35:00	Annotate: Unit 1 operator actions for Ambient Temperature is <15F complete IAW of OP-925, Cold Weather Operation actions.
12/24/2022 13:08:11	Annotate: Ambient Temperature is >22F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.

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## Station Logs 12/19-25/22

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RNP Operations Log 12/24/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 19:00:00	Annotate: Completed Cold Weather Protection for SW-316, SW-317, SW-156, SW-152, and SW-177 per AD-OP-ALL-0204 at 19:00.
12/24/2022 21:00:00	Annotate: Completed Cold Weather Protection for SW-316, SW-317, SW-156, SW-152, and SW-177 per AD-OP-ALL-0204 at 21:00
12/24/2022 23:00:00	Annotate: Completed Cold Weather Protection for SW-316, SW-317, SW-156, SW-152, and SW-177 per AD-OP-ALL-0204 at 23:00
12/24/2022 18:00:00	Ambient Temperature is <42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 18:30:26	Annotate: Ambient Temperature is <35F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 18:31:01	Annotate: Ambient Temperature is <32F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 18:40:00	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <42degrees F.
12/24/2022 18:42:00	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <35 degrees F.
12/24/2022 18:45:46	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <32 degrees F.
12/24/2022 19:00:28	Annotate: OP-925 (Cold Weather Operation), Section 6.2.5 MWT "Auxiliary Operator Actions for Cold Weather" checks have been completed satisfactorily for <42 degrees F.
12/24/2022 18:30:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
12/24/2022 20:00:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 32 degrees F.
12/24/2022 19:30:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 35 degrees F.
12/24/2022 21:48:00	Annotate: Ambient Temperature is <22F; Operators have been contacted to perform required actions of OP-925, (Cold Weather Operation) actions.
12/24/2022 22:34:35	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <22 degrees F.
12/24/2022 22:42:59	Annotate: OP-925 (Cold Weather Operation), Section 6.2.5 "MWT Auxiliary Operator Actions for Cold Weather" checks have been completed satisfactorily for <22 degrees F.
12/24/2022 23:49:47	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 22 degrees F.
RNP Operations Log 12/25/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 18:00:00	Ambient Temperature is <42F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 18:30:26	Annotate: Ambient Temperature is <35F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.
12/24/2022 18:31:01	Annotate: Ambient Temperature is <32F; Operators have been contacted to perform required actions of OP-925, Cold Weather Operation actions.

## Station Logs 12/19-25/22

RNP Operations Log 12/25/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 18:40:00	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <42degrees F.
12/24/2022 18:42:00	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <35 degrees F.
12/24/2022 18:45:46	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <32 degrees F.
12/24/2022 19:00:28	Annotate: OP-925 (Cold Weather Operation), Section 6.2.5 MWT "Auxiliary Operator Actions for Cold Weather" checks have been completed satisfactorily for <42 degrees F.
12/24/2022 18:30:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 42 degrees F.
12/24/2022 20:00:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 32 degrees F.
12/24/2022 19:30:00	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 35 degrees F.
12/24/2022 21:48:00	Annotate: Ambient Temperature is <22F; Operators have been contacted to perform required actions of OP-925, (Cold Weather Operation) actions.
12/24/2022 22:34:35	Annotate: OP-925 Cold Weather Operation: Section 6.2.4 Inside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for <22 degrees F.
12/24/2022 22:42:59	Annotate: OP-925 (Cold Weather Operation), Section 6.2.5 "MWT Auxiliary Operator Actions for Cold Weather" checks have been completed satisfactorily for <22 degrees F.
12/24/2022 23:49:47	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 22 degrees F.
12/25/2022 03:40:00	Annotate: Ambient temperature is 18°F. AO's notified per OP-925 'Cold Weather Operation'.
12/25/2022 04:40:52	Annotate: OP-925 Cold Weather Operation, Outside Auxiliary Operator Actions for Cold Weather checks have been completed satisfactorily for 18 degrees F.

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## Station Logs 12/19-25/22

## -Grid

RNP Operations Log 12/23/2022 Dayshift	
Log Date Time	Log Entry
12/23/2022 16:54:59	Notified by the ECC that the DEP grid will enter a YELLOW-HANDS OFF status at 1800 on 12/23/22.
RNP Operations Log 12/23/2022 Nightshift	
Log Date Time	Log Entry
12/23/2022 19:00:00	Plant Status: Unit is in MODE 6, Reactor Power: 0%. 0 MWe Gross. Fuel in Reactor Vessel with Head On; AD-WC-RNP-0420 SHUTDOWN SAFETY FUNCTION GUIDELINES Conf: M6BEB. Yellow for Grid Status. RCS temp: 68.9 degrees F, with decay heat removal provided by "A" Train RHR; RCS press: 10 psi; RCS Boron Concentration 2214 ppm; All control rods fully inserted. Observed the back of LR-477, SG WR Level Recorder for indications of tampering. This satisfies 10CFR73.54, Cyber Security Requirement. No tampering suspected. RCS Time to Boil is 88 Minutes with RCS level -10 to -14 inches. Time to 200F in SFP is 28 hrs based on a SFP temp of 76 with SFP Cooling Provided by 'A' Train SFP Cooling. SFP Gate Valve is closed.
12/24/2022 04:20:00	Received NRC status call. DEC in Yellow Grid Alert. No other items discussed.
RNP Operations Log 12/24/2022 Dayshift	
Log Date Time	Log Entry
12/24/2022 10:16:09	Contacted the ECC about the status of our grid. They are currently in EEA-3 and are purple. He stated the status was improving and not predicted to degrade. There are no threats to the incoming power to RNP that is protected. The OCC has reviewed procedure AD-WC-ALL-0260 Nuclear Generation and Response to High or Low Grid System Load for a red condition and AOP-026 GRID INSTABILITY. No actions are required at this time. The ECC will contact us back with more information as it is available. [This Entry Copied From RNP Outage Log - Dayshift - 12/24/2022 [REDACTED]]
12/24/2022 17:15:00	Annotate: Contacted by ECC [REDACTED] Grid status has changed from Purple to Red
RNP Operations Log 12/24/2022 Nightshift	
Log Date Time	Log Entry
12/24/2022 19:05:00	Contacted ECC [REDACTED] discussed Red Grid Condition and upcoming RCP jogs for RCS venting (5300 KW loads each -cold RCS). Commencing at approximately 2030 to 2100 on 12/24/22. ECC stated they could support, and requested we contact them before each RCP start.

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