



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
REGION I  
2100 RENAISSANCE BLVD., Suite 100  
KING OF PRUSSIA, PENNSYLVANIA 19406-2713**

August 2, 2018

Mr. Richard Bologna  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Beaver Valley Power Station  
P.O. Box 4, Route 168  
Shippingport, PA 15077

SUBJECT: BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 – INTEGRATED  
INSPECTION REPORT 05000334/2018002 AND 05000412/2018002

Dear Mr. Bologna:

On June 30, 2018, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Beaver Valley Power Station, Units 1 and 2. On July 26, 2018, the NRC inspectors discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

The NRC inspectors did not identify any finding or violation of more than minor significance.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (10 CFR), Part 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

*/RA/*

Matthew Young, Chief  
Reactor Projects Branch 6  
Division of Reactor Projects

Docket Nos.: 50-334 and 50-412  
License Nos.: DPR-66 and NPF-73

Enclosure:  
Inspection Report 05000334/2018002 and  
05000412/2018002

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SUBJECT: BEAVER VALLEY POWER STATION, UNIT NOS. 1 AND 2 – INTEGRATED INSPECTION REPORT 05000334/2018002 AND 05000412/2018002 DATED AUGUST 2, 2018

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NAME	JKrafty/email	SShaffer	MYoung		
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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 50-334 and 50-412

License Numbers: DPR-66 and NPF-73

Report Numbers: 05000334/2018002 and 05000412/2018002

Enterprise Identifier: I-2018-002-0067

Licensee: FirstEnergy Nuclear Operating Company (FENOC)

Facility: Beaver Valley Power Station, Units 1 and 2

Location: Shippingport, PA 15077

Inspection Dates: April 1, 2018 to June 30, 2018

Inspectors: J. Krafty, Senior Resident Inspector  
B. Pinson, Senior Resident Inspector (Acting)  
S. Horvitz, Resident Inspector  
R. Rolph, Health Physicist  
E. Andrews, Health Physicist  
J. Kulp, Senior Reactor Inspector  
D. Kern, Senior Reactor Inspector  
S. Shaffer, Senior Project Engineer  
Z. Hollcraft, Senior Resident Inspector

Approved By: M. Young, Chief  
Reactor Projects Branch 6  
Division of Reactor Projects

**SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring FirstEnergy Nuclear Operating Company's (FENOC's) performance at Beaver Valley Power Station Units 1 and 2 by conducting the baseline inspections described in this report in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

No findings or more-than-minor violations were identified.

## PLANT STATUS

Unit 1 began the inspection period shutdown in a planned refueling and maintenance outage (1R25). 1R25 was completed on May 10, 2018, and the unit was returned to 100 percent power on May 13, 2018. On June 28, 2018, power was reduced to 76 percent to address an emergent condenser tube leak. On June 29, 2018, power was further reduced to 47 percent and remained there for the remainder of the inspection period due to degrading chemistry conditions in the steam generators.

Unit 2 operated at or near rated thermal power for the entire inspection period.

## INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors performed plant status activities described in IMC 2515 Appendix D, "Plant Status" and conducted routine reviews using IP 71152, "Problem Identification and Resolution." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess FENOC's performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## REACTOR SAFETY

### 71111.01 - Adverse Weather Protection

#### Summer Readiness (1 Sample)

The inspectors evaluated summer readiness of offsite and alternate AC power systems from June 4 through June 7, 2018.

### 71111.04 - Equipment Alignment

#### Partial Walkdown (4 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Unit 1, fuel pool cooling system following core offload on April 24, 2018
- (2) Unit 1, recirculation spray system while outside recirculation spray was out of service on April 25, 2018
- (3) Unit 1, residual heat removal system during reactor core reload on April 28, 2018
- (4) Unit 2, 'B' spent fuel pool cooling system during 'A' spent fuel pool cooling pump maintenance on May 22, 2018

Complete Walkdown (1 Sample)

The inspectors evaluated system configurations during a complete walkdown of the Unit 1 Quench Spray system on May 7, 2018.

71111.05Q - Fire Protection Annual/Quarterly

Quarterly Inspection (5 Samples)

The inspectors evaluated fire protection program implementation in the following selected areas:

- (1) Unit 1, purge duct and steam generator blowdown area, fire area SG/PD, on April 5, 2018
- (2) Unit 1, potentially contaminated area shop, fire area SB-1, on April 5, 2018
- (3) Unit 1, reactor containment building, fire area RC-1, on April 17, 2018
- (4) Unit 1, hot lab and radiation protection offices, fire areas SB-2 and CL-1, on April 21, 2018
- (5) Unit 2, 'DF' switchgear room, fire area 2-SB-2, on April 26, 2018

71111.06 - Flood Protection Measures

Internal Flooding (1 Sample)

The inspectors evaluated internal flooding mitigation protections in the Unit 2 auxiliary building on June 25, 2018.

71111.07 - Heat Sink Performance

Heat Sink (1 Sample)

The inspectors evaluated FENOC's monitoring and maintenance of the Unit 1 'C' recirculation spray heat exchanger performance.

71111.08 – Inservice Inspection Activities (1 Sample)

The inspectors evaluated pressurized water reactor non-destructive examination and welding activities by reviewing the following examinations from April 23, 2018 to April 26, 2018.

(1) Volumetric Examinations

- a) Manual ultrasonic testing of reactor coolant butt weld DLW-LOOP1-S-01

- b) Manual ultrasonic testing of socket welded drain line RC-51  
This review pertained to examinations performed in accordance with MRP-146, "Materials Reliability Program Management of Thermal Fatigue in Normally Stagnant Non-Isolable Reactor Coolant System Branch Lines."
- c) Manual ultrasonic testing of socket welded drain line RC-53  
This review pertained to examinations performed in accordance with MRP-146, "Materials Reliability Program Management of Thermal Fatigue in Normally Stagnant Non-Isolable Reactor Coolant System Branch Lines."

(2) Visual Examinations

- a) Enhanced Visual Testing (VT1) of the core barrel upper flange weld  
This review pertained to examinations performed in accordance with MRP-227, "Pressurized Water Reactor Internals Inspection and Evaluation Guidelines."
- b) General visual examination of containment liner
- c) System leakage test (VT2) of charging system risk informed segment CH-130
- d) System leakage test (VT2) of safety injection bolted connection BC-1SI-53
- e) General visual examination (VT3) of reactor head penetration #49 area

(3) Surface Examination (PT/MT)

- a) Magnetic particle test of river water system piping segment WR-20 butt welds  
This review involved welding activities associated with a pressure boundary risk significant system.

(4) The inspectors reviewed the welding activities associated with the replacement of section WR-20 of river water system piping.

(5) The inspectors evaluated FENOC's boric acid corrosion control program performance.

(6) The inspectors performed an independent walkdown of accessible portions of the containment liner and moisture barrier.

(7) The inspectors reviewed FENOC's performance in evaluating and removing a boric acid deposit following its discovery on the reactor vessel head.

71111.11 - Licensed Operator Requalification Program and Licensed Operator Performance

Operator Requalification (1 Sample)

The inspectors observed and evaluated a crew of licensed operators in the Unit 1 simulator during licensed operator training conducted in preparation for upcoming plant evolutions on April 9, 2018.

Operator Performance (1 Sample)

The inspectors observed and evaluated the shutdown for refueling outage 1R25 and draining of the reactor coolant system for refueling at Unit 1 on April 14, 2018, and April 17, 2018.

71111.12 - Maintenance EffectivenessRoutine Maintenance Effectiveness (3 Samples)

The inspectors evaluated the effectiveness of routine maintenance activities associated with the following equipment and/or safety significant functions:

- (1) Unit 2, safety injection system
- (2) Unit 2, 4160V station service electrical system
- (3) 10 CFR 50.65 (a)(3) Periodic Evaluation for the period of July 1, 2015, through February 28, 2017

Quality Control (2 Samples)

The inspectors evaluated maintenance and quality control activities associated with the following equipment performance issues:

- (1) Unit 1, RD-1MS-1 leak injection repair (2X phenolic sealant material) on May 24, 2018
- (2) Unit 2, replacement of 'C' charging pump breaker cubicle parts on June 5, 2018

71111.13 - Maintenance Risk Assessments and Emergent Work Control (5 Samples)

The inspectors evaluated the risk assessments for the following planned and emergent work activities:

- (1) Unit 1, yellow shutdown risk for decay heat removal while reactor coolant system is depressurized and drained to flange on April 18 and 19, 2018
- (2) Unit 1, yellow shutdown risk for decay heat removal and spent fuel pool cooling during core offload with only one component cooling water heat exchanger available on April 21, 2018
- (3) Unit 1, yellow shutdown risk for decay heat removal while reactor coolant system is depressurized and drained to flange on May 3, 2018
- (4) Unit 1, elevated risk for turbine driven auxiliary feedwater pump testing on May 8, 2018
- (5) Unit 2, elevated risk for '2A' station system service transformer deluge testing on May 17, 2018

71111.15 - Operability Determinations and Functionality Assessments (5 Samples)

The inspectors evaluated the following operability determinations and functionality assessments:

- (1) Unit 1, low head safety injection snubber clearance gaps between load pins and pipe clamps on April 17, 2018
- (2) Unit 1, turbo charger air intake filter rack broken support on 1-1 emergency diesel generator on April 25, 2018
- (3) Unit 1, primary drains discharge containment isolation valve TV-1DG-108A failed drop test on May 7, 2018
- (4) Unit 1, MOV-1RW-113A, river water inlet motor operated valve on 1-1 emergency diesel generator heat exchanger over thrust condition on June 6, 2018
- (5) Unit 1 and 2, evaluation of thermal sleeve wear in control rod drive mechanisms as a result of Westinghouse Part 21 on June 11, 2018



71111.18 - Plant Modifications (3 Samples)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Engineering Change Package 16-0535-004,005 – Unit 1 permanent installation of RCS level indication cabling
- (2) Engineering Change Package 16-0368-003,004 – Unit 1 emergency diesel generator air start system upgrades
- (3) Part/Component Equivalent Replacement Package PERP-001350 – Unit 1 BV-MOV-1RW-113A/B/C & D1 Wedge Pin Material Upgrade and Upstream Disc Hole Provision

71111.19 - Post Maintenance Testing (8 Samples)

The inspectors evaluated post maintenance testing for the following maintenance/repair activities:

- (1) Unit 2, 'A' control room emergency air conditioning unit motor repairs on March 26, 2018
- (2) Unit 1, 1-2 emergency diesel generator planned maintenance on April 22, 2018
- (3) Unit 1, high head safety injection system planned maintenance on May 2, 2018
- (4) Unit 1, 1-1 emergency diesel generator planned maintenance on May 2, 2018
- (5) Unit 1, pressurizer power operated relief valve, PCV-1RC-455D, adjustments on May 8, 2018
- (6) Unit 1, containment penetration 1X-2 relief valve replacement on May 11, 2018
- (7) Unit 2, 'C' charging pump breaker cubicle parts replacement on June 8, 2018
- (8) Unit 2, 'A' service water train strainer overhaul on June 11, 2018

71111.20 - Refueling and Other Outage Activities (1 Sample)

The inspectors evaluated Unit 1 refueling outage (1R25) activities from April 15 through May 10, 2018

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Routine (4 Samples)

- (1) 2OST-13.2, quench spray pump 2QSS\*P21B test on April 10, 2018
- (2) 1BVT1.21.2, trevtest method for main steam safety valve setpoint check on April 14, 2018
- (3) 1OST-36.3, No. 1 emergency diesel generator automatic test on April 15, 2018
- (4) 1OST-11.14A, low head safety injection full flow test on April 20, 2018

Containment Isolation Valve (1 Sample)

- (1) 1OST-47.153, Type C leak test – Penetration #90 (Containment Purge Exhaust) on May 4, 2018

## **RADIATION SAFETY**

### 71124.01 - Radiological Hazard Assessment and Exposure Controls

#### Radiological Hazard Assessment (1 Sample)

The inspectors reviewed recent plant radiation surveys and for radiological hazards to onsite workers or members of the public. The inspectors evaluated assessments and controls for new radiological hazards.

#### Instructions to Workers (1 Sample)

The inspectors evaluated instructions provided to workers.

#### Radiological Hazards Control and Work Coverage (1 Sample)

The inspectors evaluated in-plant radiological conditions during facility walk-downs and observation of radiological work activities. The inspectors assessed whether posted surveys, radiation work permits, worker radiological briefings, the use of continuous air monitoring and dosimetry monitoring were consistent with the present conditions.

#### High Radiation Area and Very High Radiation Area Controls (1 Sample)

The inspectors evaluated risk-significant high radiation area and very high radiation area controls including postings and physical barriers.

#### Radiation Worker Performance and Radiation Protection Technician Proficiency (1 Sample)

The inspectors evaluated radiation worker and radiation protection technician radiological performance.

### 71124.02 - Occupational As Low As Reasonably Achievable (ALARA) Planning and Controls

#### Verification of Dose Estimates and Exposure Tracking Systems (1 Sample)

The inspectors evaluated dose estimates and exposure tracking.

#### Radiation Worker Performance (1 Sample)

The inspectors evaluated radiation worker and radiation protection technician performance.

### 71124.03 - In-Plant Airborne Radioactivity Control and Mitigation

#### Engineering Controls (1 Sample)

The inspectors evaluated engineering controls for in-plant airborne radioactivity.

### 71124.04 - Occupational Dose Assessment

#### Source Term Characterization (1 Sample)

The inspectors evaluated FENOC's source term characterization.

## OTHER ACTIVITIES – BASELINE

### 71151 - Performance Indicator Verification

The inspectors verified FENOC's performance indicator submittals listed below for the period from April 1, 2017, through March 31, 2018. (6 Samples)

- (1) Unit 1 and 2 Safety System Functional Failures
- (2) Unit 1 and 2 Emergency AC Power System Mitigating System Performance Index
- (3) Unit 1 and 2 High Pressure Injection System Mitigating System Performance Index

### 71152 - Problem Identification and Resolution

#### Annual Follow-up of Selected Issues (2 Samples)

The inspectors reviewed FENOC's implementation of its corrective action program related to the following issues:

- (1) Condition Report 2018-00134, Unit 2 low head safety injection system 'A' surveillance test unable to be completed due to frozen recirculation line
- (2) Condition Reports 2017-04061, 2017-07350, Unit 1 chilled water maintenance rule (a)(1) goals and 2017-10581, Unit 1 compressed air maintenance rule (a)(1) goals

## OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT, AND ABNORMAL

### Impact of Financial Conditions on Continued Safe Performance

In that the licensee's parent company, FirstEnergy Solutions, was under bankruptcy protection/reorganization during the inspection period, NRC Region I conducted reviews of processes at Beaver Valley. Using the flexibilities in the baseline inspection program, the inspectors evaluated several aspects of FENOC's operations to assess whether any identified plant performance issues could be related to the station's financial condition. The factors reviewed included: (1) impact on regulatory required plant staffing, (2) corrective maintenance backlog, (3) changes to the planned maintenance schedule, (4) corrective action program implementation, and (5) reduction in outage scope, including risk-significant modifications. In particular, the inspectors assessed whether FENOC personnel continued to identify problems at an appropriate threshold and enter these problems into the corrective action program for resolution. The inspectors also assessed whether FENOC continued to develop and implement corrective actions commensurate with the safety significance of the problems identified.

## INSPECTION RESULTS

Observations	71152
The inspectors noted that the corrective actions for the (a)(1) goals approved for the Unit 1 chilled water system and compressed air system in CR 2017-04061, 2017-07350, and 2017-10581 did not examine the process for determining if the (a)(1) goals were reasonable. As a result, the inspectors reviewed the (a)(1) goals for five systems currently in (a)(1) and three systems recently returned to (a)(2) to determine whether the (a)(1) goals approved in other systems were reasonable. The inspectors noted that four out of the five (a)(1) systems and all three (a)(2) systems had (a)(1) goals that allowed a higher frequency of failure than their respective (a)(2) performance criteria. The four (a)(1) systems were Unit 1 auxiliary feedwater	

and area ventilation and Unit 2 chilled water and compressed air. The three (a)(2) systems were emergency response facility substation, structures, and Unit 2 heat trace. The inspectors determined that these goals were not reasonable because the systems could be returned to (a)(2) after meeting their (a)(1) goals and their performance may not meet their (a)(2) performance criteria. Although there is a requirement to have goals when a system is in (a)(1), the inspectors found no requirement that specifies criteria for (a)(1) goals. Therefore, the inspectors concluded that there was no performance deficiency. The inspectors also reviewed the performance of the three (a)(2) systems during their (a)(1) monitoring period and determined that their performance justified their return to (a)(2).

## **EXIT MEETINGS AND DEBRIEFS**

The inspectors verified no proprietary information was retained or documented in this report.

- On July 26, 2018, the inspectors presented the quarterly resident inspector inspection results to Mr. Richard Bologna, Site Vice President, and other members of the Beaver Valley Power Station staff.

**DOCUMENTS REVIEWED****71111.01**Miscellaneous

Unit 1 Main Generator and Transformer Maintenance Rule Monthly Monitoring Spreadsheet, May 2018

Unit 1 4KV Station Service System Monthly Monitoring Spreadsheet, May 2018

Unit 1 Emergency Diesel Generators System Monthly Monitoring Spreadsheet, May 2018

Unit 2 4KV Station Service System Monthly Monitoring Spreadsheet, May 2018

Unit 2 Emergency Diesel Generators System Monthly Monitoring Spreadsheet, May 2018

Unit 2 Main Generator and Transformer Maintenance Rule Monthly Monitoring Spreadsheet, May 2018

**71111.08**Condition Reports (\*initiated in response to inspection)

2018-03417	2018-03473	2018-03655	2018-03964
2018-03424	2018-03508	2018-03718	
2018-03465	2018-03523	2018-03877	
2018-03469	2018-03554	2018-03889*	

Maintenance Order/Work Order

200694327

NDE Reports

1BVT 1.45.1, Containment Structural Integrity Test Results, dated May 5, 2018

BOP-MT-18-011, BV-WR-20: Two Butt Welds and 12 Lug Removal Areas, dated April 22, 2018

BOP-VT-18-033, Reactor Head Penetration #49 Area, dated April 30, 2018

Remote Visual Inspection Record, Core Support Barrel Upper Flange Weld 1, dated May 29, 2018

UT-18-1008, Butt Weld DLW-LOOP1-7-S-01, dated April 23, 2018

UT-18-1009, Socket Welded Drain Line RC-51-1502-Q1, dated April 23, 2018

UT-18-1010, Socket Welded Drain Line RC-53-1502-Q1, dated April 23, 2018

VT-18-1015, RI-ISI Segment CH-130, dated April 20, 2018

VT-18-1019, Bolted Connection BC-1SI-53, dated April 17, 2018

Engineering Evaluation

Evaluation of the Boric Acid Deposit Discovered on Beaver Valley Unit 1 Reactor Head Penetration 49, dated April 29, 2018

Miscellaneous

200695327, Weld Data Sheet for WR-20-FW-3, Revision 0

200695327, Weld Data Sheet for WR-20-FW-4, Revision 0

ASME Code Case, N729-4, Alternative Examination Requirements for PWR Reactor Vessel Upper Heads with Nozzles having Pressure-Retaining Partial-Penetration Welds, Section XI, Division 1, dated June 22, 2012

Boric Acid Corrosion Control Leak Inspection, RPV Head (As Found - 2), dated April 28, 2018

Boric Acid Corrosion Control Leak Inspection, RPV Head (As Found), dated April 28, 2018

Boric Acid Corrosion Control Leak Inspection, RPV Head (As Left), dated April 29, 2018

FENOC Vision Examination for B0897, dated October 6, 2017

**71111.12**Condition Reports

2015-12933	2015-14482	2017-05211	2018-00134
2015-13292	2017-04691	2017-05923	

Work Orders

200573214	200676806	200751271
200665722	200689230	

Miscellaneous

ECP-18-0117-001, Temporary Gland Seal Rupture Disk Injection Leak Repair, Revision 0  
Unit 2 System 11 Monthly Monitoring Spreadsheet, June 2018

Periodic Assessment of Maintenance Rule Program, Beaver Valley Power Station, July 1, 2015  
through February 28, 2017

NOP-ER-3004-3, Maintenance Rule Failure Review Form for CR 2015-14914, October 31, 2015  
Unit 2 System 36B Maintenance Rule Review for May 2018, May 16, 2018

**71111.13**Condition Reports

2018-03836	2018-04130	2018-04131	2018-04637
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Miscellaneous

Beaver Valley Key Shutdown Defense-in-Depth Turnover Checklist, April 18, 2018

Beaver Valley Key Shutdown Defense-in-Depth Turnover Checklist, April 19, 2018

Defense-in-Depth Protected Equipment, April 18, 2018

Defense-in-Depth Protected Equipment, April 19, 2018

Beaver Valley Key Shutdown Defense-in-Depth Turnover Checklist, April 21, 2018

Defense-in-Depth Protected Equipment, April 21, 2018

Beaver Valley Key Shutdown Defense-in-Depth Turnover Checklist, May 3, 2018

Defense-in-Depth Protected Equipment, May 3, 2018

Beaver Valley Unit 1 Week 05/07/18, Preliminary ICDP Profile for Mode 3 Entry, Revision 0

Beaver Valley Unit 2 Week 05/14/18, T-0 ICDP Profile, Revision 0

Risk Management Plan for 200696943 TR-2A Dry Test 2OST-33.10E

**71111.15**Condition Reports

2018-03496	2018-03498	2018-03824	2018-04186
2018-03497	2018-03544	2018-04033	2018-04820

Work Orders

200748598	200749021	200749224
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Miscellaneous

601161892

601166499

601163268

**71111.18**Condition Reports

2018-04004	2018-04033	2018-04186
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Work Orders

200687691	200716160	200749224
200687692	200748968	200749225
200716158	200749021	200749226

**71111.19**Condition Reports

2018-02461	2018-03824	2018-04033	2018-04068
2018-03785	2018-03916	2018-04034	2018-04076
2018-03818	2018-04004	2018-04067	2018-04113

Work Orders

200573214	200676806	200695390	200698200
200646499	200687691	200697579	200744746
200665722	200687692	200697982	200748540
200668183	200689230	200697989	200749070

Miscellaneous

601162956

**71111.20**Condition Reports

2018-03355	2018-04213	2018-04848
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Miscellaneous

NOP-LP-1009-02, Fatigue Assessment dated April 18, 2018  
Empcenter work hours for selected operations and maintenance personnel April 9 through  
June 20, 2018

**71111.22**Condition Report

2018-03786

Work Orders

200669679	200698482
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Miscellaneous

601161753

**71124.01**Condition Reports (\*initiated in response to inspection)

2017-05620	2018-01074	2018-03723
2017-05782	2018-03382	2018-03882*

Surveys

103410, dated April 25, 2018 at 0400

103410, dated April 25, 2018 at 0900

**71124.02**Condition Report (\*initiated in response to inspection)

2018-03894\*

**71124.03**Air Samples

18-0072	18-0073	18-0074
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Condition Reports (\*initiated in response to inspection)

2017-09748	2018-03375	2018-03463	2018-03795*
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**71124.04**Condition Reports

2018-00793	2018-03457
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Miscellaneous

SA-BN-2017-0574, DMC3000 Implementation, dated May 24, 2017

SA-BN-2017-0686, Fleet Radiation Protection External Dosimetry Program, dated November 16, 2017

NIST NVLAP Accreditation Letter for Lab Code 200750-0, August 16, 2016

**71151**Miscellaneous

Unit 1 MSPI Emergency AC Power Systems, April 2017 through March 2018

Unit 1 MSPI High Pressure Injection System, April 2017 through March 2018

Unit 1 Safety System Functional Failures, April 2017 through March 2018

Unit 1 System 07 Maintenance Rule Monthly Monitoring Spreadsheet, May 2018

Unit 1 System 36A Maintenance Rule Monthly Monitoring Spreadsheet, May 2018

Unit 2 MSPI Emergency AC Power Systems, April 2017 through March 2018

Unit 2 MSPI High Pressure Injection System, April 2017 through March 2018

Unit 2 Safety System Functional Failures, April 2017 through March 2018

Unit 2 System 07 Maintenance Rule Monthly Monitoring Spreadsheet, May 2018

Unit 2 System 36A Maintenance Rule Monthly Monitoring Spreadsheet, May 2018



**71152**Condition Reports

2015-07271	2017-07350	2018-00080	2018-00147
2017-04061	2017-10581	2018-00142	2018-00570

Miscellaneous

Maintenance Rule (a)(1) Evaluation for CR 2013-07662  
 Maintenance Rule (a)(1) Evaluation for CR 2014-00448  
 Maintenance Rule (a)(1) Evaluation for CR 2014-00555  
 Maintenance Rule (a)(1) Evaluation for CR 2014-05866  
 Maintenance Rule (a)(1) Evaluation for CR 2014-10156  
 Maintenance Rule (a)(1) Evaluation for CR 2015-07271  
 Maintenance Rule (a)(1) Evaluation for CR 2015-08084  
 Maintenance Rule (a)(1) Evaluation for CR 2015-16299  
 Maintenance Rule (a)(1) Evaluation for CR 2016-01044  
 Maintenance Rule (a)(1) Evaluation for CR 2017-06161  
 Maintenance Rule (a)(1) Evaluation for CR 2017-07122  
 Maintenance Rule (a)(1) Evaluation for CR 2017-08759  
 Maintenance Rule (a)(1) Evaluation for CR 2017-11702  
 Maintenance Rule (a)(2) Evaluation for CR 2014-05866  
 Maintenance Rule (a)(2) Evaluation for CR 2016-05285  
 Unit 1 System 24B Monthly Monitoring Spreadsheet, May 2018