



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION IV  
1600 EAST LAMAR BOULEVARD  
ARLINGTON, TEXAS 76011-4511

January 30, 2023

Adam Heflin, Executive Vice President  
Chief Nuclear Officer  
Arizona Public Service  
P.O. Box 52034, MS 7602  
Phoenix, AZ 85072-2034

SUBJECT: PALO VERDE NUCLEAR GENERATING STATION – INTEGRATED  
INSPECTION REPORT 05000528/2022004 AND 05000529/2022004 AND  
05000530/2022004

Dear Adam Heflin:

On December 31, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Palo Verde Nuclear Generating Station. On January 6, 2023, 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.

No findings or violations of more than minor significance were identified during this inspection.

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 at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

A handwritten signature in black ink, appearing to read "John L. Dixon, Jr.", written over a horizontal line.

Signed by Dixon, John  
on 01/30/23

John L. Dixon, Jr., Chief  
Reactor Projects Branch D  
Division of Operating Reactor Safety

Docket Nos. 05000528, 05000529, 05000530  
License Nos. NPF-41, NPF-51, NPF-74

Enclosure: As stated

cc w/ encl: Distribution via LISTSERV

PALO VERDE NUCLEAR GENERATING STATION – INTEGRATED INSPECTION REPORT  
05000528/2022004 AND 05000529/2022004 AND 05000530/2022004 DATED  
JANUARY 30, 2023

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DOCUMENT NAME: PALO VERDE NUCLEAR GENERATING STATION – INTEGRATED INSPECTION REPORT  
05000528/2022003, 05000529/2022003 AND 05000530/2022003

ADAMS ACCESSION NUMBER: **ML23026A308**

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 By: AAS       Yes    No       Publicly Available       Sensitive

|           |            |           |           |            |           |
|-----------|------------|-----------|-----------|------------|-----------|
| OFFICE    | SRI:DORS/D | RI:DORS/D | RI:DORS/D | SPE:DORS/D | BC:DORS/D |
| NAME      | LMerker    | ELantz    | NCuevas   | ASanchez   | JDixon    |
| SIGNATURE | LNLM       | ERL       | NXC       | AAS        | JLD5      |
| DATE      | 1/27/2023  | 1/26/2023 | 1/27/2023 | 1/26/2023  | 1/30/2023 |

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**U.S. NUCLEAR REGULATORY COMMISSION  
Inspection Report**

Docket Numbers: 05000528, 05000529 and 05000530

License Numbers: NPF-41, NPF-51 and NPF-74

Report Numbers: 05000528/2022004, 05000529/2022004 and 05000530/2022004

Enterprise Identifier: I-2022-004-0006

Licensee: Arizona Public Service

Facility: Palo Verde Nuclear Generating Station

Location: Tonopah, AZ

Inspection Dates: October 1 to December 31, 2022

Inspectors: L. Merker, Senior Resident Inspector  
N. Cuevas, Resident Inspector  
E. Lantz, Resident Inspector  
A. Sanchez, Senior Project Engineer  
N. Hernandez, Senior Operations Engineer  
B. Bergeon, Senior Operations Engineer  
G. George, Senior Reactor Inspector  
J. Lee, Reactor Inspector  
D. You, Operations Engineer  
A. Athar, Resident Inspector  
A. Donley, Resident Inspector  
C. Wynar, Resident Inspector

Approved By: John L. Dixon, Jr., Chief  
Reactor Projects Branch D  
Division of Operating Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Palo Verde Nuclear Generating Station, 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.

### **List of Findings and Violations**

No findings or violations of more than minor significance were identified.

### **Additional Tracking Items**

None.

## PLANT STATUS

Units 1 and 2 operated at or near full power for the duration of the inspection period.

Unit 3 entered the inspection period near full power during a coastdown for refueling outage 3R23. On October 7, 2022, the unit was shut down for the refueling outage. On November 9, 2022, the unit reached criticality. During power ascension, the licensee identified a power supply issue in the turbine electrohydraulic control system and lowered power from 68 to 12 percent power to replace the power swap over relay on November 15, 2022. On November 16, 2022, the licensee began power ascension and returned to full power on November 18, 2022, where it remained at or near full power for the remainder of the 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 activities described in IMC 2515, Appendix D, "Plant Status," observed risk significant activities, and completed on-site portions of IPs. The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

## REACTOR SAFETY

### 71111.04 - Equipment Alignment

#### Partial Walkdown Sample (IP Section 03.01) (2 Samples)

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

- (1) Unit 2, high-pressure safety injection train A due to high safety significance, on October 6, 2022
- (2) Unit 3, safety injection train A in the gravity feed configuration for shutdown risk management during refueling outage 3R23, on October 28, 2022

#### Complete Walkdown Sample (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated system configurations during a complete walkdown of the Unit 3 essential chilled water train B following maintenance outage on November 30, 2022.

## 71111.05 - Fire Protection

### Fire Area Walkdown and Inspection Sample (IP Section 03.01) (4 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Unit 3, turbine-driven and motor-driven auxiliary feedwater pump rooms, fire zones 72 and 73, on October 5, 2022
- (2) Unit 3, containment building 80-foot elevation, fire zones 66A, 66B, 67A, and 67B, on October 13, 2022
- (3) Unit 1, class 1E 120 VDC equipment rooms and battery rooms, fire zones 6A, 7A, 8A, and 9A, on November 3, 2022
- (4) Unit 1, upper cable spreading room, fire zone 20, on November 25, 2022

## 71111.06 - Flood Protection Measures

### Inspection Activities - Internal Flooding (IP Section 03.01) (1 Sample)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) Unit 2, essential pipe density tunnel due to water intrusion, on October 14, 2022

## 71111.07A - Heat Exchanger/Sink Performance

### Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

- (1) Unit 3, essential cooling water heat exchanger B, on November 28, 2022

## 71111.08P - Inservice Inspection Activities (PWR)

### PWR Inservice Inspection Activities Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors verified that the Unit 3 reactor coolant system boundary, steam generator tubes, reactor vessel internals, risk-significant piping system boundaries, and containment boundary are appropriately monitored for degradation and that repairs and replacements were appropriately fabricated, examined, and accepted by reviewing the following activities from October 10-20, 2022:

#### 03.01.a - Nondestructive Examination and Welding Activities.

- ultrasonic examination, high-pressure safety injection long term recirculation loop 1, pipe to elbow weld 39-14
- ultrasonic examination, high-pressure safety injection long term recirculation loop 1, elbow to pipe weld 39-1
- ultrasonic examination, pressurizer surge line, weld overlay weld 5-34-OL
- dye penetrant examination, 3MRCEX02 - pressurizer heater weld
- dye penetrant examination, flange seal weld, 3PSCNL043

- visual 2 examination, pressurizer bottom head instrument nozzles 5-37-5 and 5-37-6
- visual 3 examination, auxiliary and downcomer feedwater steam generator #2, component no. 3-SG-011-H-016
- visual 3 examination, auxiliary and downcomer feedwater steam generator #2, component no. 13-AF-006-H-001
- visual 3 examination, reactor coolant pump 2a column supports, 18-12, 18-13, 18-14, 18-15, 18-21, and 18-22
- welding package, ewb-e01 heat exchanger and nozzle assemblies
- welding package, 3MRCEX02 - pressurizer heater weld

03.01.c – Pressurized-Water Reactor Boric Acid Corrosion Control Activities.

- The inspector reviewed the following documents associated with boric acid leaks and evaluations: condition report (CR) 22-06370-002 for pipe cap of valve SIA-V866, CR 21-09517 for packing leak on valve SIA-V084, CR 21-13762-003 for leakage on pulsation discharge damper of accumulator CHE-X07, CR 21-05561-002 for packing leak on valve CHE-V962, CR 22-06707-002 for packing leak on valve SIB-UV-616.

Problem Identification and Resolution.

The inspectors reviewed 11 condition reports associated with inservice inspection activities. No findings or violations of more than minor significance were identified.

71111.11A - Licensed Operator Requalification Program and Licensed Operator Performance

Requalification Examination Results (IP Section 03.03) (1 Sample)

- (1) The inspectors reviewed and evaluated the licensed operator examination failure rates for the requalification annual operating exam administered on August 17 to September 30, 2022.

71111.11B - Licensed Operator Requalification Program and Licensed Operator Performance

Licensed Operator Requalification Program (IP Section 03.04) (1 Sample)

- (1) Biennial Requalification Written Examinations

The inspectors evaluated the quality of the licensed operator biennial requalification written examination administered on August 17 to September 30, 2022.

Annual Requalification Operating Tests

The inspectors evaluated the adequacy of the facility licensee's annual requalification operating test.

Administration of an Annual Requalification Operating Test

The inspectors evaluated the effectiveness of the facility licensee in administering requalification operating tests required by 10 CFR 55.59(a)(2) and that the facility

licensee is effectively evaluating their licensed operators for mastery of training objectives.

#### Requalification Examination Security

The inspectors evaluated the ability of the facility licensee to safeguard examination material, such that the examination is not compromised.

#### Remedial Training and Re-examinations

The inspectors evaluated the effectiveness of remedial training conducted by the licensee, and reviewed the adequacy of re-examinations for licensed operators who did not pass a required requalification examination.

#### Operator License Conditions

The inspectors evaluated the licensee's program for ensuring that licensed operators meet the conditions of their licenses.

#### Control Room Simulator

The inspectors evaluated the adequacy of the facility licensee's control room simulator in modeling the actual plant, and for meeting the requirements contained in 10 CFR 55.46. The inspectors reviewed a rod control operating system modification to simulator A, and the associated crew training and testing plan.

#### Problem Identification and Resolution

The inspectors evaluated the licensee's ability to identify and resolve problems associated with licensed operator performance.

### 71111.11Q - Licensed Operator Requalification Program and Licensed Operator Performance

#### Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (1 Sample)

The inspectors observed and evaluated licensed operator performance in the control room during the following activities:

- (1) Unit 3, dilution to estimated critical boron concentration and reactor startup, on November 9, 2022

#### Licensed Operator Requalification Training/Examinations (IP Section 03.02) (1 Sample)

- (1) The inspectors observed and evaluated licensed operator requalification simulator training activities, on December 1, 2022.



### 71111.12 - Maintenance Effectiveness

#### Maintenance Effectiveness (IP Section 03.01) (3 Samples)

The inspectors evaluated the effectiveness of maintenance to ensure the following structures, systems, and components (SSCs) remain capable of performing their intended function:

- (1) Unit 3, emergency diesel generator train A, on November 14, 2022
- (2) Unit 1, safety injection train A pumps combined recirculation to refueling water tank valve SIA-UV-660, on December 2, 2022
- (3) Unit 2, turbine-driven auxiliary feedwater pump, on December 28, 2022

### 71111.13 - Maintenance Risk Assessments and Emergent Work Control

#### Risk Assessment and Management Sample (IP Section 03.01) (1 Sample)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed:

- (1) Unit 2, emergent high risk maintenance to replace temperature control valve CEN-TV-0033 positioner on the main turbine exciter cooling water heat exchanger, on October 28, 2022

### 71111.15 - Operability Determinations and Functionality Assessments

#### Operability Determination or Functionality Assessment (IP Section 03.01) (8 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) Unit 2, high-pressure safety injection train B to loop 2 check valve PSI-BV-532 operability determination due to leakage, on October 3, 2022
- (2) Unit 3, steam generator 1, line 2 safety relief valve SGE-PSV-579 operability determination due to as-left relief pressure setpoint being outside surveillance test acceptance criteria, on October 5, 2022
- (3) Unit 2, essential spray pond train B operability determination due to exceeding demolition limits during wall repairs, on October 6, 2022
- (4) Unit 3, safety injection tank 2A pressure relief valve SIE-PSV-211 operability determination due to being in contact with steam line piping insulation, on October 12, 2022
- (5) Unit 3, turbine-driven auxiliary feedwater pump operability determination for lube oil pressure outside band during surveillance testing, on November 18, 2022
- (6) Unit 1, emergency diesel generator train A operability determination for abnormal voltage fluctuations during surveillance testing, on November 18, 2022
- (7) Unit 3, core protection calculator channels C and D operability determination due to channel deviation during surveillance testing, on December 1, 2022
- (8) Unit 3, emergency diesel generator train A operability determination for misaligned fuel line support bolt, on December 16, 2022

### 71111.18 - Plant Modifications

#### Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Unit 3, permanent modification to upgrade the control element drive mechanism control system with the new advanced rod control hybrid system to address component obsolescence and equipment failure issues, on November 23, 2022

### 71111.19 - Post-Maintenance Testing

#### Post-Maintenance Test Sample (IP Section 03.01) (6 Samples)

The inspectors evaluated the following post-maintenance testing activities to verify system operability and/or functionality:

- (1) Unit 3, letdown into regenerating heat exchanger isolation valve CHA-UV-0516 following planned preventive maintenance, on October 19, 2022
- (2) Unit 2, main turbine stator inlet temperature control valve CEN-TV-0033 following emergent maintenance to replace the valve positioner, on October 28, 2022
- (3) Unit 1, emergency diesel generator train B testing following maintenance outage, on November 9, 2022
- (4) Unit 1, emergency diesel generator train A testing, following troubleshooting and swapping of the automatic voltage regulator, on November 15, 2022
- (5) Unit 3, essential chilled water train B following maintenance outage, on November 18, 2022
- (6) Unit 1, safety injection train B pumps combined recirculation to refueling water tank valve SIB-UV-659 following loss of control room indication troubleshooting, on December 1, 2022

### 71111.20 - Refueling and Other Outage Activities

#### Refueling/Other Outage Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated the Unit 3 refueling outage 3R23 activities from October 7 through November 10, 2022. Operating Experience Smart Sample 2007-03, "Crane and Heavy Lift Inspection, Supplemental Guidance to [Inspection Procedure] 71111.20 and [Inspection Procedure] 71111.13," revision 3, was used to inform this sample.

### 71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance testing activities to verify system operability and/or functionality:

#### Surveillance Tests (other) (IP Section 03.01) (3 Samples)

- (1) Unit 1, emergency diesel generator train A testing, on October 11, 2022

- (2) Unit 3, recirculation actuation signal train A relay K104 functional test, on October 27, 2022
- (3) Unit 3, integrated safeguards testing train B, on December 15, 2022

Containment Isolation Valve Testing (IP Section 03.01) (1 Sample)

- (1) Unit 3, letdown regenerative heat exchanger isolation containment isolation valve CHA-UV-0516 testing, on October 21, 2022

**OTHER ACTIVITIES – BASELINE**

71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

BI01: Reactor Coolant System (RCS) Specific Activity Sample (IP Section 02.10) (3 Samples)

- (1) Unit 1 (October 1, 2021, through September 30, 2022)
- (2) Unit 2 (October 1, 2021, through September 30, 2022)
- (3) Unit 3 (October 1, 2021, through September 30, 2022)

BI02: RCS Leak Rate Sample (IP Section 02.11) (3 Samples)

- (1) Unit 1 (October 1, 2021, through September 30, 2022)
- (2) Unit 2 (October 1, 2021, through September 30, 2022)
- (3) Unit 3 (October 1, 2021, through September 30, 2022)

71152A - Annual Follow-up Problem Identification and Resolution

Annual Follow-up of Selected Issues (Section 03.03) (1 Sample)

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

- (1) Units 1, 2, and 3, effectiveness of corrective actions following discovery of the fuel building exhaust radiation monitor upstream and downstream drain valves, HFB-V036 and HFB-V037, inaccurate seismic loading calculations, on December 14, 2022

71152S - Semiannual Trend Problem Identification and Resolution

Semiannual Trend Review (Section 03.02) (1 Sample)

- (1) The inspectors reviewed the licensee's corrective action program for potential adverse trends that might be indicative of a more significant safety issue. The inspectors performed an in-depth review of the licensee's ability to identify issues regarding radiation monitors, evaluate each occurrence, and implement corrective actions. During this review, the inspectors noted an increasing trend in the number of condition reports written on radiation monitors and the radiation monitor communication in all three units. The licensee was aware of the declining performance of the radiation monitoring system, having placed the system in maintenance rule (a)(1) status in 2018 with corrective actions in place to modernize

the system due to its age and limited available replacement parts resulting from the original vendor going out of business. The inspectors determined that the licensee has adequately followed site procedures to evaluate and correct the identified issues with the radiation monitor system and continue to monitor system performance while executing the established corrective actions. No more than minor concerns were identified.

## **INSPECTION RESULTS**

No findings were identified.

## **EXIT MEETINGS AND DEBRIEFS**

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

- On November 4, 2022, the inspectors presented the Palo Verde Unit 3 inservice inspection exit meeting inspection results to K. Gil, Director, Nuclear Regulatory Affairs, and other members of the licensee staff.
- On November 17, 2022, the inspectors presented the biennial requalification inspection results to C. Harbor, Vice President Nuclear Regulatory Affairs and Oversight, and other members of the licensee staff.
- On January 6, 2023, the inspectors presented the integrated inspection results to A. Heflin, Executive Vice President / Chief Nuclear Officer, and other members of the licensee staff.

**DOCUMENTS REVIEWED**

| Inspection Procedure | Type                        | Designation    | Description or Title   | Revision or Date |
|----------------------|-----------------------------|----------------|--|------------------|
| 71111.04             | Corrective Action Documents |                | 21-14313, 22-11579, 22-11733, 22-05258                                     |                  |
| 71111.04             | Drawings                    | 02-M-SIP-001   | P&I Diagram Safety Injection and Shutdown Cooling                          | 56               |
| 71111.04             | Drawings                    | 02-M-SIP-002   | P&I Diagram Safety Injection and Shutdown Cooling                          | 37               |
| 71111.04             | Drawings                    | 03-M-SIP-001   | P & I Diagram Safety Injection & Shutdown Cooling System                   | 57               |
| 71111.04             | Drawings                    | 03-M-SIP-002   | P & I Diagram Safety Injection & Shutdown Cooling System                   | 38               |
| 71111.04             | Miscellaneous               | 03-M-ECP-001   | P & I Diagram Essential Chilled Water System                               | 25               |
| 71111.04             | Miscellaneous               | 87-EC-019      | Engineering Evaluation Request   |                  |
| 71111.04             | Procedures                  | 40EP-9EO10-220 | Appendix 220: LM – Train A Gravity Feed Thru SDC Train A                   | 0                |
| 71111.04             | Procedures                  | 40EP-9EO10-227 | Appendix 227: LM – Train A Gravity Feed Hot Leg Injection Thru HPSI Pump A | 0                |
| 71111.04             | Procedures                  | 40OP-9EC02     | Essential Chilled Water Train B  | 34               |
| 71111.04             | Procedures                  | 40OP-9ZZ23     | Outage GOP   | 88               |
| 71111.04             | Procedures                  | 40ST-9SI07     | Train A High Pressure Safety Injection System Alignment Verification       | 21               |
| 71111.04             | Work Orders                 |                | 5356793  |                  |
| 71111.05             | Calculations                | 13-AC-ZZ-0200  | Penetration Seal Qualifications  | 15               |
| 71111.05             | Calculations                | 13-MC-FP-0803  | Combustible Loads – Control Building                                       | 17               |
| 71111.05             | Corrective Action Documents |                | 19-04199   |                  |
| 71111.05             | Fire Plans                  |                | Pre-Fire Strategies Manual, Fire Zones 6A, 7A, 8A, and 9A                  | 30               |
| 71111.05             | Fire Plans                  |                | Pre-Fire Strategies Manual, Fire Zone 20                                   | 30               |
| 71111.05             | Miscellaneous               |                | Pre-fire Strategies Manual   | 30               |
| 71111.05             | Miscellaneous               | 13-MC-FP-807   | PVNGS Combustible Loading Calculation                                      | 9                |
| 71111.05             | Procedures                  | 14FT-9FP70     | Appendix R & Former Tech Spec Penetration Seal Surveillance                | 15               |
| 71111.06             | Drawings                    | 13-C-ZYS-301   | Essential Pipe Density Tunnel Wall Elevation, Sections, and Details        | 10               |
| 71111.06             | Miscellaneous               | 13-MC-ZY-599   | Internal Flooding in the Essential Pipe Density Tunnel                     | 8                |
| 71111.06             | Miscellaneous               | 13-NS-C093     | Internal Flooding PRA – Input Data and Walkdown Validation                 | 3                |

| Inspection Procedure | Type  | Designation                  | Description or Title   | Revision or Date |
|----------------------|---|------------------------------|--|------------------|
| 71111.06             | Miscellaneous   | 13-NS-C096                   | Internal Flooding PRA – Characterization of Flood Scenarios  | 3                |
| 71111.06             | Miscellaneous   | 13-NS-C097                   | Internal Flooding PRA- Estimation of Initiating Frequencies  | 3                |
| 71111.07A            | Calculations  | 13-MC-SP-0307                | SP/EW System Thermal Performance Design Bases Analysis   | 9                |
| 71111.07A            | Corrective Action Documents                           |                              | 22-10979, 22-11364, 22-11346, 22-04162   |                  |
| 71111.07A            | Miscellaneous   |                              | Maintenance Rule Performance Criteria Basis Worksheet – Essential Cooling Water System   | 8                |
| 71111.07A            | Procedures  | 31MT-9EW02                   | Tube Plugging of the Essential Cooling Water Heat Exchanger  | 5                |
| 71111.07A            | Procedures  | 40OP-9EW02                   | Essential Cooling Water System (EW) Train B  | 31               |
| 71111.07A            | Procedures  | 73DP-9ZZ21                   | Heat Exchanger Visual Inspection   | 8                |
| 71111.07A            | Procedures  | 73TI-9ZZ28                   | Eddy Current Examination of Tubing   | 11               |
| 71111.07A            | Work Orders   |                              | 5356621  |                  |
| 71111.08P            | Corrective Action Documents                           |                              | 19-08144, 20-01784, 21-00434, 21-02087, 22-03812, 22-06894, 22-07052, 22-07482, 22-09162, 22-10525, 22-10799                     |                  |
| 71111.08P            | Corrective Action Documents Resulting from Inspection |                              | 22-10902, 22-11036, 22-11038, 22-11052, 22-10799, 22-11104, 22-11099, 22-11173, 22-11073, 22-11075, 22-11109, 22-11116, 22-11118 |                  |
| 71111.08P            | Engineering Evaluations                               | Boric Acid Assessments (CR-) | 22-06370-002, 22-06375-002, 21-09517, 21-04164, 2104162-002  |                  |
| 71111.08P            | Miscellaneous   |                              | Welder Brazer Performance Qualification Summary  | 118              |
| 71111.08P            | Miscellaneous   | CUP# 2899                    | Chemical Use Permit for Nuclear Grade Tape Products  | 04/22/2016       |
| 71111.08P            | NDE Reports   | 22-0962                      | Liquid Penetrant Examination Report - 3PSCNL043**PIPEXX  | 10/18/2022       |
| 71111.08P            | NDE Reports   | 22-965                       | Liquid Penetrant Examination Report - PZR Heater 3MRCEX02  | 10/18/2022       |
| 71111.08P            | NDE Reports   | 22-UT-3011                   | Ultrasonic Examination Report - Zone 39 - HPSI Long Term Recirc Loop 1 - Weld 39-14  | 10/11/2022       |
| 71111.08P            | NDE Reports   | 22-UT-3012                   | Ultrasonic Examination Report - Zone 39 - HPSI Long Term Recirc Loop 1 - Weld 39-15  | 10/11/2022       |
| 71111.08P            | NDE Reports   | 22-UT-3020                   | Ultrasonic Examination Report - Zone 20 - Pressurizer  | 10/14/2022       |

| Inspection Procedure | Type                        | Designation  | Description or Title   | Revision or Date |
|----------------------|-----------------------------|--------------|--|------------------|
|                      |                             |              | Surge - Weld 5-34-OL   |                  |
| 71111.08P            | NDE Reports                 | 22-VT-3095   | Visual Examination Report - Zone 59 - Component No. 3-SG-011-H-016   | 10/10/2022       |
| 71111.08P            | NDE Reports                 | 22-VT-3098   | Visual Examination Report - Zone 59 - Component No. 13-AF-006-H-001  | 10/11/2022       |
| 71111.08P            | NDE Reports                 | 22-VT-3123   | Pressure Test Report - Zone 5 - "VE" Bare Metal Visual Exams of Pressurizer Bottom Head Instrument Nozzles 5-37-5 and 5-37-6 in accordance with Code Case N722-1 | 10/14/2022       |
| 71111.08P            | NDE Reports                 | 22-VT-3133   | Visual Examination Report - Zone 18 - RCP Coolant Pump 2A Column Supports 18-12 through 18-15  | 10/15/2022       |
| 71111.08P            | NDE Reports                 | 22-VT-3134   | Visual Examination Report - Zone 18 - RCP Coolant Pump 2A Column Supports 18-21 and 18-22  | 10/15/2022       |
| 71111.08P            | Procedures                  | 01DP-0AP12   | Condition Reporting Process  | 41               |
| 71111.08P            | Procedures                  | 01DP-0AP61   | Chemical Control Program   | 3                |
| 71111.08P            | Procedures                  | 70TI-9ZC01   | Boric Acid Walkdown Leak Detection   | 26               |
| 71111.08P            | Procedures                  | 73DP-9ZC01   | Boric Acid Corrosion Control Program   | 11               |
| 71111.08P            | Procedures                  | 73TI-9ZZ07   | Liquid Penetrant Examination   | 19               |
| 71111.08P            | Procedures                  | 73TI-9ZZ18   | Visual Examination of Component Supports   | 17               |
| 71111.08P            | Procedures                  | MN756-A00002 | PDI Generic Procedure for the Ultrasonic Examination of Austenitic Pipe Welds, PDI-UT-2  | 004              |
| 71111.08P            | Procedures                  | MN756-A00004 | PDI Generic Procedure for the Ultrasonic Examination of Weld Overlaid Similar and Dissimilar Metal Welds, PDI-UT-8   | 003              |
| 71111.08P            | Work Orders                 |              | 4874312, 5077003, 5207085, 5224288, 5333956, 5333960, 5344322, 5348607, 5357408, 5393566, 5423854  |                  |
| 71111.11B            | Corrective Action Documents |              | 21-14210, 21-11051, 21-01938, 21-06538, 22-08247, 22-09928, 22-04716, SR 4378, 22-08239, 21-2894, 04-2745719, 22-10287, 22-10289, 22-10457, 22-08239             |                  |
| 71111.11B            | Miscellaneous               |              | 2022 Biennial RO Written Exam Week 2   | 09/21/2022       |
| 71111.11B            | Miscellaneous               |              | 2022 Biennial SRO Written Exam Week 2  | 09/21/2022       |
| 71111.11B            | Miscellaneous               |              | SST Final data   | 12/14/2021       |
| 71111.11B            | Miscellaneous               |              | Simulator to Unit Differences  | 05/19/2022       |
| 71111.11B            | Miscellaneous               |              | Simulator Configuration Management Committee (SCMC) Agenda   | 03/23/2021       |
| 71111.11B            | Miscellaneous               |              | Simulator Configuration Management Committee (SCMC)  | 01/26/2021       |

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|                      |               |             | Meeting Minutes  |                  |
| 71111.11B            | Miscellaneous |             | Simulator Configuration Management Committee (SCMC) Meeting Minutes    | 03/23/2021       |
| 71111.11B            | Miscellaneous |             | Simulator Configuration Management Committee (SCMC) Meeting Minutes    | 11/11/2019       |
| 71111.11B            | Miscellaneous |             | Simulator Configuration Management Committee (SCMC) Meeting Minutes    | 12/2/2020        |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2022 Annual Exam Remedial Training Evaluation JPM A11             | 08/26/2022       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2022 Cycle 4 RO Exam 1 Remedial Training                          | 07/29/2022       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2022 Cycle 2 SRO Exam 1 Remedial Training                         | 03/22/2022       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT NLR21 Remedial Training Evaluation SES004M09                      | 01/13/2022       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2021 Annual Operating Exam Remedial Training Evaluation SES009R06 | 05/16/2022       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2021 Annual Operating Exam Remedial Training Evaluation SES003M00 | 09/24/2021       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2021 Cycle 2 SRO Written Exam 2                                   | 05/28/2021       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2021 Cycle 4 RO Exam 1  | 07/16/2021       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | LOCT 2021 Cycle 5 RO Exam 2  | 11/19/2021       |
| 71111.11B            | Miscellaneous | 15DP-0TR08  | Shift Technical Advisor Remedial Training Evaluation SES-STA-11-00     | 09/2/2021        |
| 71111.11B            | Miscellaneous | CCM03       | Malfunction Tests  | 06/07/2021       |
| 71111.11B            | Miscellaneous | EGM09A      | Malfunction Tests  | 06/07/2021       |
| 71111.11B            | Miscellaneous | FWM23       | Malfunction Tests  | 06/07/2021       |
| 71111.11B            | Miscellaneous | IAM05       | Malfunctions Test  | 12/14/2021       |
| 71111.11B            | Miscellaneous | JPM 040.01  | Declare Emergency Action Levels  | 2                |
| 71111.11B            | Miscellaneous | JPM 041.01  | Declare Emergency Action Levels  | 3                |
| 71111.11B            | Miscellaneous | JPM 109.01  | Declare Emergency Action Levels  | 8                |
| 71111.11B            | Miscellaneous | JPM 111.01  | Declare Emergency Action Levels  | 6                |
| 71111.11B            | Miscellaneous | JPM 134.01  | Declare Emergency Action Levels  | 5                |
| 71111.11B            | Miscellaneous | JPM 141.01  | Declare Emergency Action Levels  | 4                |
| 71111.11B            | Miscellaneous | JPM 149.01  | Declare Emergency Action Levels  | 4                |
| 71111.11B            | Miscellaneous | JPM A12     | 2022 PVNGS NRC Annual Exam   | 08/24/2022       |



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| 71111.11B            | Miscellaneous | JPM A6         | 2022 PVNGS NRC Annual Exam  | 01/15/2016       |
| 71111.11B            | Miscellaneous | JPM P2         | 2022 PVNGS NRC Annual Exam  | 07/24/2018       |
| 71111.11B            | Miscellaneous | JPM P6         | 2022 PVNGS NRC Annual Exam  | 07/24/2018       |
| 71111.11B            | Miscellaneous | JPM P8         | 2022 PVNGS NRC Annual Exam  | 07/25/2018       |
| 71111.11B            | Miscellaneous | JPM S10        | 2022 PVNGS NRC Annual Exam  | 07/15/2018       |
| 71111.11B            | Miscellaneous | JPM S11        | 2022 PVNGS NRC Annual Exam  | 08/03/2022       |
| 71111.11B            | Miscellaneous | JPM S12        | 2022 PVNGS NRC Annual Exam  | 01/14/2018       |
| 71111.11B            | Miscellaneous | JPM S12        | 2022 PVNGS NRC Annual Exam  | 09/27/2022       |
| 71111.11B            | Miscellaneous | JPM S4         | 2022 PVNGS NRC Annual Exam  | 07/20/2018       |
| 71111.11B            | Miscellaneous | JPM S6         | 2022 PVNGS NRC Annual Exam  | 07/24/2018       |
| 71111.11B            | Miscellaneous | MCM02A         | Malfunction Tests   | 06/07/2021       |
| 71111.11B            | Miscellaneous | ML11138A283    | Oconee Nuclear Station Second Simulator Testing Schedule                                    | 04/19/2011       |
| 71111.11B            | Miscellaneous | ML11138A291    | Program Office Review of Oconee's Simulation Facility "Testing and Test Credit Plan" Scheme | 06/01/2011       |
| 71111.11B            | Miscellaneous | MTI-003        | Transient Test Comparison   | 03/17/2021       |
| 71111.11B            | Miscellaneous | NIM02A         | Malfunction Tests   | 06/07/2021       |
| 71111.11B            | Miscellaneous | RCM01A         | Malfunction Tests   | 06/07/2021       |
| 71111.11B            | Miscellaneous | RDM11          | Malfunction Tests   | 06/07/2021       |
| 71111.11B            | Miscellaneous | SES-0-03-T-07  | LOCT Simulator Evaluation Scenario  | 7                |
| 71111.11B            | Miscellaneous | SES-0-03-T-08  | LOCT Simulator Evaluation Scenario  | 8                |
| 71111.11B            | Miscellaneous | SES-0-05-P-09  | LOCT Simulator Evaluation Scenario  | 9                |
| 71111.11B            | Miscellaneous | SES-0-09-AG-06 | LOCT Simulator Evaluation Scenario  | 6                |
| 71111.11B            | Miscellaneous | SES-0-09-AG-07 | LOCT Simulator Evaluation Scenario  | 7                |
| 71111.11B            | Miscellaneous | SES-0-09-P-10  | LOCT Simulator Evaluation Scenario  | 10               |
| 71111.11B            | Miscellaneous | THOR1A         | Malfunction Tests   | 05/25/2022       |
| 71111.11B            | Procedures    | 01DP-0EM13     | Licensed Operator Medical Examinations  | 29               |
| 71111.11B            | Procedures    | 0PGP03-ZT-0132 | Licensed Operator Requalification Program   | 14               |
| 71111.11B            | Procedures    | 0PNT01-ZT-0300 | LOR Training Program  | 0                |
| 71111.11B            | Procedures    | 0PNT01-ZT-0301 | LOR Annual and Biennial Evaluation  | 0                |
| 71111.11B            | Procedures    | 0PNT01-ZT-0302 | LOR Exam Bank   | 0                |
| 71111.11B            | Procedures    | 0PNT01-ZT-0303 | LOR Two-Year Training Plan  | 0                |
| 71111.11B            | Procedures    | 0PNT01-ZT-0304 | LOR Conduct of Simulator Training   | 0                |
| 71111.11B            | Procedures    | 0POP01-ZA-0014 | Initial Operator License and Licensed Operator Programs                                     | 33               |

| Inspection Procedure | Type                        | Designation        | Description or Title   | Revision or Date |
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| 71111.11B            | Procedures                  | 15DP-0LC01         | Operator Licensing and Requalification Process   | 11               |
| 71111.11B            | Procedures                  | 15DP-0OT03         | LOCT Biennial Written Exam Development and Sample Plan                                 | 7                |
| 71111.11B            | Procedures                  | 15DP-0OT04         | LOCT Annual and Biennial Exam Administration   | 9                |
| 71111.11B            | Procedures                  | 15DP-0OT05         | NRC Examination Security   | 11               |
| 71111.11B            | Procedures                  | 15DP-0TR08         | Systematic Approach to Training (SAT)  | 22               |
| 71111.11B            | Procedures                  | 15DP-0TR70         | Simulator Configuration  | 7                |
| 71111.11B            | Procedures                  | 15DP-0TR79         | Licensed Operator Continuing Training Program Description                              | 78               |
| 71111.11B            | Procedures                  | 40DP-9OP02         | Conduct of Operations  | 76               |
| 71111.11B            | Procedures                  | NLR10-15-001       | Operator License Activation/Reactivation Card  | 15               |
| 71111.11Q            | Corrective Action Documents |                    | 22-12116   |                  |
| 71111.11Q            | Miscellaneous               | NLR22B010500       | Licensed Operator Continuing Training Classroom Lesson: Ovation and ARCH               | 12/28/2021       |
| 71111.11Q            | Miscellaneous               | NLR22S030401       | Licensed Operator Continuing Training Simulator Scenario: Ovation                      | 05/19/2022       |
| 71111.11Q            | Miscellaneous               | NLR22S050100       | Licensed Operator Continued Training Simulator Scenario – LOAF                         | 11/13/2022       |
| 71111.11Q            | Miscellaneous               | NLR22S050301       | Licensed Operator Continued Training Classroom Lesson – Loss of PMS                    | 11/18/2022       |
| 71111.11Q            | Miscellaneous               | WNA-TM-00463-CVER1 | Licensed Operator Continuing Training Classroom Lesson: ARCH Cycle 3 Operator Training | 04/28/2022       |
| 71111.11Q            | Procedures                  | 01DP-0AP57         | Management of Critical Evolutions and Infrequently Performed Tests or Evolutions       | 2                |
| 71111.11Q            | Procedures                  | 40AL-9RK4A         | Panel B04A Alarm Responses   | 58A              |
| 71111.11Q            | Procedures                  | 40DP-9OP02         | Conduct of Operations  | 77               |
| 71111.11Q            | Procedures                  | 40OP-9RJ04         | Operations with PMS Out of Service   | 11               |
| 71111.11Q            | Procedures                  | 40OP-9ZZ02         | Initial Reactor Startup Following Refuelings   | 61C              |
| 71111.11Q            | Procedures                  | 71OP-9RX01         | Calculation of Estimated Critical Condition  | 37               |
| 71111.11Q            | Procedures                  | 72ST-9RX03         | DNBR/LHR/AZTILT/ASI with COLSS Out of Service  | 20               |
| 71111.12             | Corrective Action Documents |                    | 22-09187, 21-12436, 22-08517, 21-00183, 22-07259, 22-07261, 22-12462, 10-00150         |                  |
| 71111.12             | Miscellaneous               |                    | MRFF Evaluation 21-00183-004   |                  |
| 71111.12             | Miscellaneous               |                    | MRFF Evaluation 22-09187-007   |                  |

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| 71111.12             | Miscellaneous |                    | CRDR 3282707  |                  |
| 71111.12             | Miscellaneous |                    | EWR 3319152   |                  |
| 71111.12             | Miscellaneous |                    | PVNGS- Design Basis Manual, Diesel Generator, Class 1E Standby Generation, Fuel Oil Storage and Transfer System | 28               |
| 71111.12             | Miscellaneous |                    | Maintenance Rule Performance Criteria Basis Worksheet – Emergency Diesel Generator                              | 3                |
| 71111.12             | Miscellaneous |                    | Performance Monitoring Group – Unit 1 Containment Spray Train A   |                  |
| 71111.12             | Miscellaneous |                    | Performance Monitoring Group – Unit 1 High Pressure Safety Injection Train A                                    |                  |
| 71111.12             | Miscellaneous |                    | Performance Monitoring Group – Unit 1 Low Pressure Safety Injection A   |                  |
| 71111.12             | Miscellaneous |                    | Maintenance Rule Performance Criteria Basis Worksheet – Auxiliary Feedwater                                     | 6                |
| 71111.12             | Miscellaneous |                    | Unit 2 Maintenance Rule SSC Unavailability (UA) Report  | 11/02/2022       |
| 71111.12             | Miscellaneous |                    | Performance Monitoring Group, Auxiliary Feedwater Train A Unit 2  | 12/26/2022       |
| 71111.12             | Miscellaneous |                    | Auxiliary Feedwater, Risk Significance Determination of Maintenance Rule Function(s)                            |                  |
| 71111.12             | Miscellaneous | 13-NS-C025         | Risk Informed Performance Criteria  | 9                |
| 71111.12             | Miscellaneous | 13-NS-C075         | MSPI Bases Document   | 16               |
| 71111.12             | Miscellaneous | 22-07259-004       | MRFF Evaluation   |                  |
| 71111.12             | Miscellaneous | DEC-00536          | Substitute Bolted Bonnet Solenoid Operated Valves (SOV) for the Combined Recirc Header to RWT Isolation Valves  | 1                |
| 71111.12             | Miscellaneous | EVT-AF-2022-428523 | Maintenance Rule Event  |                  |
| 71111.12             | Miscellaneous | EVT-AF-2022-436372 | Maintenance Rule Event  |                  |
| 71111.12             | Miscellaneous | EVT-SI-2022-428772 | Maintenance Rule Event Report: 1JSIAUV0660  |                  |
| 71111.12             | Miscellaneous | JN603-A00026       | Target Rock SOV Model No. 77L-002BB Project Technical Manual  | 0                |
| 71111.12             | Procedures    | 40ST-9DG01         | Diesel Generator A Test   | 51               |
| 71111.12             | Procedures    | 70DP-0MR01         | Maintenance Rule  | 47               |

| Inspection Procedure | Type                        | Designation       | Description or Title   | Revision or Date |
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| 71111.12             | Procedures                  | 73DP-9XI01        | Pump and Valve Inservice Testing Program   | 41               |
| 71111.12             | Procedures                  | 73ST-9XI13        | Train A HPSI Injection and Miscellaneous SI Valves – Quarterly – Inservice Test  | 37               |
| 71111.12             | Work Orders                 |                   | 5347215, 5471705, 5471225, 5306526, 5472104, 5457808, 5256459, 3470020, 5370179  |                  |
| 71111.13             | Procedures                  | 01DP-0AP57        | Management of Critical Evolutions and Infrequently Performed Tests or Evolutions   | 2                |
| 71111.15             | Corrective Action Documents |                   | 22-10130, 18-15131, PVAR 3293681, PVAR 3140020, 22-07363, 22-07868, 22-07986, 22-07772, 22-11978, 18-10906, 21-08721, 22-12242, 22-09074, 22-11747, 19-09886, 16-05323, 22-12762 |                  |
| 71111.15             | Drawings                    | 03-M-SIP-002      | P&I Diagram Safety Injection and Shutdown Cooling System   |                  |
| 71111.15             | Drawings                    | M018-00545        | Fuel Oil Supply & Drain Lines – General Arrangement  | 5                |
| 71111.15             | Drawings                    | M018-00663        | Diesel Generator Support / Bracket Detail  | 1                |
| 71111.15             | Miscellaneous               |                   | Design Basis Manual: Seismic Topical   | 4                |
| 71111.15             | Miscellaneous               |                   | PVNGS- Design Basis Manual, Diesel Generator, Class 1E Standby Generation, Fuel Oil Storage and Transfer System  | 28               |
| 71111.15             | Miscellaneous               |                   | DBM, Safety Injection System   | 41               |
| 71111.15             | Miscellaneous               |                   | Engineering Evaluation 17-06376-037  |                  |
| 71111.15             | Miscellaneous               |                   | Engineering evaluation 3634736   |                  |
| 71111.15             | Miscellaneous               |                   | Unit 3 Control Room Logs 9/27-9/29/2022  | 10/04/2022       |
| 71111.15             | Miscellaneous               |                   | PVNGS Technical Specification Bases  | 74               |
| 71111.15             | Miscellaneous               | 13-CN-0397        | Specification - Essential Spray Pond Structure Concrete Repair   | 2                |
| 71111.15             | Miscellaneous               | 13-NS-C088        | Mission Times for the EW, SP, SI , AF, and DG Systems  | 1                |
| 71111.15             | Miscellaneous               | 13-VTD-C710-00008 | Crosby Valve & Gage Co. Instruction Manual for Miscellaneous Safety Relief Valves  | 3                |
| 71111.15             | Miscellaneous               | 40OP-9SI04        | Safety Injection System Venting  | 42               |
| 71111.15             | Miscellaneous               | 73ST-9SI03        | Leak Test of SI/RCS Pressure Isolation Valves  | 55               |
| 71111.15             | Miscellaneous               | 73ST-9XI33        | HPSI Pump and Check Valve Full Flow Test   | 66               |
| 71111.15             | Miscellaneous               | PVNGS DBM         | Safety Injection System  | 41               |
| 71111.15             | Miscellaneous               | PVNGS DBM         | Essential Spray Pond System  | 23               |
| 71111.15             | Miscellaneous               | PVNGS DBM         | Core Protection Calculator System/Core Operating Limits  | 7                |

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|                      |                             |                    | Supervisory System   |                  |
| 71111.15             | Miscellaneous               | VTD-D970-00002     | Terry Turbine Maintenance Guide, Auxiliary Feedwater Application, EPRI NMAC Technical Report 3002001670                              | 1                |
| 71111.15             | Procedures                  | 40AL-9RK5A         | Panel B05A Alarm Responses   | 5                |
| 71111.15             | Procedures                  | 40DP-9OP26         | Operations Condition Reporting Process and Operability Determination/Functional Assessment   | 47               |
| 71111.15             | Procedures                  | 40OP-9AF01         | Essential Auxiliary Feedwater System, 40OP-9AF01   | 70               |
| 71111.15             | Procedures                  | 40OP-9DG01         | Emergency Diesel Generator A   | 81               |
| 71111.15             | Procedures                  | 40OP-9SB01         | CPC/CEAC Operations  | 7                |
| 71111.15             | Procedures                  | 40ST-9DG01         | Diesel Generator A Test  | 51               |
| 71111.15             | Procedures                  | 40ST-9ZZM1         | Operations Mode 1 Surveillance Logs  | 74               |
| 71111.15             | Procedures                  | 73ST-9ZZ18         | Main Steam and Pressurizer Safety Valve Set Pressure Verification  | 30               |
| 71111.15             | Work Orders                 |                    | 5257762, 5489138, 5348113, 5362361, 5470681, 5488694, 4761703, 4762123, 5369408  |                  |
| 71111.18             | Corrective Action Documents |                    | 22-01754, 22-06836, 22-10674, 22-11037, 22-11740, 22-11905, 22-12116, 22-12189   |                  |
| 71111.18             | Engineering Changes         | 4655260            |  |                  |
| 71111.18             | Engineering Evaluations     | E-21-0004          |  |                  |
| 71111.18             | Miscellaneous               | JN1017-A00018      | Advanced Rod Control Hybrid (ARCH) Design Verification Test – EC 4655260   | 0                |
| 71111.18             | Miscellaneous               | JN1034-A00197      | WNA-GO-00240-CVER1 – ARCH System Technical Manual  | 0                |
| 71111.18             | Miscellaneous               | NLR22B010500       | Licensed Operator Continuing Training Classroom Lesson: Ovation and ARCH   | 12/28/2021       |
| 71111.18             | Miscellaneous               | WNA-TM-00461-CVER1 | Licensed Operator Continuing Training Classroom Lesson: ARCH Cycle 2 Operator Training   | 02/15/2022       |
| 71111.18             | Miscellaneous               | WNA-TM-00463-CVER1 | Licensed Operator Continuing Training Classroom Lesson: ARCH Cycle 3 Operator Training   | 04/28/2022       |
| 71111.18             | Miscellaneous               | WNA-TR-05670-CVER3 | APS Palo Verde Unit 3 Ovation Strategic Modernization Program Rod Control Integrated System Factory Acceptance Test Report – Phase 4 | 0                |
| 71111.18             | Procedures                  | 02DP-0ZZ03         | Inspection and Testing of Plant Maintenance and  | 5                |

| Inspection Procedure | Type                        | Designation     | Description or Title   | Revision or Date |
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|                      |                             |                 | Modifications  |                  |
| 71111.18             | Procedures                  | 85DP-9MS01      | Conduct of Modifications   | 6                |
| 71111.19             | Corrective Action Documents |                 | 22-11147, 22-10074, 22-11747, 22-12718, 22-12721   |                  |
| 71111.19             | Miscellaneous               | 13-M723-00009   | "Q" Chillers Refrigerant Machine Flow Schematic  | 18               |
| 71111.19             | Miscellaneous               | 13VTD-C150-0002 | Carrier Instruction Manual for Centrifugal Refrigeration Machine   | 4                |
| 71111.19             | Procedures                  | 33MT-9EC01      | Essential Chiller  | 17               |
| 71111.19             | Procedures                  | 40OP-9DG01      | Emergency Diesel Generator A   | 81               |
| 71111.19             | Procedures                  | 40OP-9DG02      | Emergency Diesel Generator B   | 79               |
| 71111.19             | Procedures                  | 40OP-9PB01      | 4.16 kV Class 1E Power (PB)  | 34               |
| 71111.19             | Procedures                  | 40ST-9DG01      | Diesel Generator A Test  | 51               |
| 71111.19             | Procedures                  | 40ST-9DG02      | Diesel Generator B Test  | 56               |
| 71111.19             | Procedures                  | 73DP-9ZZ14      | Surveillance Testing   | 31               |
| 71111.19             | Procedures                  | 73ST-9XI14      | Train B HPSI Injection and Miscellaneous SI Valves Quarterly – Inservice Test  | 41               |
| 71111.19             | Work Orders                 |                 | 5484878, 5353033, 5437781, 5352967, 5353023, 5353050, 5353062, 5362361, 5487473, 5355068, 5488694, 5470681, 5356793, 5491941, 5493651  |                  |
| 71111.20             | Calculations                | 13-NC-RC-0200   | Reactor and Spent Fuel Pool Decay Heat Loads   | 10               |
| 71111.20             | Corrective Action Documents |                 | 21-12744, 21-12769, 22-05971, 22-08470, 22-10387, 22-10439, 22-10701, 22-10716, 22-10671, 22-10807, 22-10809, 22-10908, 22-10919, 22-10957, 22-10992, 22-10994, 22-11040, 22-11072, 22-11077, 22-11068, 22-11581, 22-11594, 22-11592, 22-11787 |                  |
| 71111.20             | Miscellaneous               |                 | Unit Three 23rd Refueling Outage Shutdown Risk Assessment Final Report   | 0                |
| 71111.20             | Miscellaneous               |                 | Unit Three 23rd Refueling Outage Shutdown Risk Assessment Team Review Report   | 0                |
| 71111.20             | Miscellaneous               |                 | Standard Maneuver Plan: EOC Shutdown 92% to 20% Unit 3 Cycle 23  | 0                |
| 71111.20             | Miscellaneous               |                 | Fatigue Assessment for Water Resources Auxiliary Operator Following Motor Vehicle Accident   | 10/11/2022       |
| 71111.20             | Miscellaneous               |                 | Fatigue Assessment for Refueling Mechanical Services   | 10/11/2022       |

| Inspection Procedure | Type                        | Designation                              | Description or Title  | Revision or Date |
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|                      |                             |  | Mechanic Following Illness from Containment Heat  |                  |
| 71111.20             | Miscellaneous               |  | Fatigue Assessment for Maintenance Scaffolder Following Injury During Scaffold Erection             | 10/27/2022       |
| 71111.20             | Miscellaneous               |  | Fatigue Assessment for Maintenance Scaffolder Following Observed Unusual Behavior                   | 10/27/2022       |
| 71111.20             | Miscellaneous               |  | TD# 289537: 3MDGNC02B**BLOWER – DIESEL GENERATOR B STARTING AIR COMPRESSOR 2                        |                  |
| 71111.20             | Miscellaneous               |  | Protected Equipment Scheme: U3R23 Lowered Inventory   | 0                |
| 71111.20             | Miscellaneous               | Operations Technical Document TD# 289537 | 3MDGNC02B**BLOWER - DIESEL GENERATOR B STARTING AIR COMPRESSOR 2                                    |                  |
| 71111.20             | Procedures                  | 01DP-0AP17                               | Managing Personnel Fatigue  | 12               |
| 71111.20             | Procedures                  | 31MT-9ZC05                               | Open/Close the Containment Equipment Access Hatch and Missile Shield Doors                          | 43               |
| 71111.20             | Procedures                  | 40AO-9ZZ23                               | Loss of SFP Level or Cooling  | 33               |
| 71111.20             | Procedures                  | 40DP-9AP21                               | Protected Equipment   | 7                |
| 71111.20             | Procedures                  | 40DP-9RS02                               | Shutdown Risk Management  | 6                |
| 71111.20             | Procedures                  | 40OP-9ZZ02                               | Initial Reactor Startup Following Refuelings  | 61C              |
| 71111.20             | Procedures                  | 40OP-9ZZ11                               | Mode Change Checklist   | 106              |
| 71111.20             | Procedures                  | 40OP-9ZZ23                               | Outage GOP  | 88               |
| 71111.20             | Procedures                  | 40OP-9ZZ26                               | Tracking Containment Penetrations   | 29               |
| 71111.20             | Procedures                  | 70DP-0RA01                               | Shutdown Risk Assessments   | 63               |
| 71111.22             | Calculations                | 13-JC-ZZ-0201                            | MOV Thrust, Torque and Actuator Sizing Calculation  | 15               |
| 71111.22             | Calculations                | 13-JC-ZZ-0225                            | Determination of Motor Actuator Stroke Times for DC Motors Associated with Limitorque MOV Actuators | 0                |
| 71111.22             | Calculations                | 13-JC-ZZ-0400                            | Motor Operated Valve Thrust and Torque Calculation for 13JAFBHV0030 and 13JAFBHV0031                | 1                |
| 71111.22             | Calculations                | 13-MC-AF-0800                            | Auxiliary Feedwater ESF Function Response Times   | 8                |
| 71111.22             | Corrective Action Documents |  | 22-09074, 3553355, 3779662, 22-10580, 22-10611, 22-10720, 22-10738                                  |                  |
| 71111.22             | Miscellaneous               |  | Design Basis Manual: Auxiliary Feedwater System   | 26               |
| 71111.22             | Miscellaneous               | 13-MS-C003                               | Engineering Study for ESFAS Valve Stroke Time Adjustment Evaluation                                 | 1                |

| Inspection Procedure | Type                        | Designation  | Description or Title   | Revision or Date |
|----------------------|-----------------------------|--------------|--|------------------|
| 71111.22             | Procedures                  | 32ST-9ZZ09   | Post Maintenance Motor Operated Valve Thermal Overload Relay Protection and/or Bypass Device Operability | 14               |
| 71111.22             | Procedures                  | 36ST-9SA02   | ESFAS Train B Subgroup Relay Functional Test   | 49               |
| 71111.22             | Procedures                  | 36ST-9SA03   | ESFAS Train A Subgroup Relay Shutdown Functional Test  | 34               |
| 71111.22             | Procedures                  | 36ST-9SA04   | ESFAS Train B Subgroup Relay Shutdown Functional Test  | 29               |
| 71111.22             | Procedures                  | 40ST-9DG01   | Diesel Generator A Test  | 51               |
| 71111.22             | Procedures                  | 73DP-9ZZ12   | Motor Operated Valve (MOV) Program   | 21               |
| 71111.22             | Procedures                  | 73ST-9CL01   | Containment Leakage Type B and C Testing   | 51               |
| 71111.22             | Procedures                  | 73ST-9DG02   | Class 1E Diesel Generator and Integrated Safeguards Test Train B   | 33               |
| 71111.22             | Procedures                  | 73ST-9XI05   | AF Valves – Inservice Test   | 35               |
| 71111.22             | Work Orders                 |              | 5355068, 5470681, 5356500, 5356384   |                  |
| 71151                | Corrective Action Documents |              | 22-06994   |                  |
| 71151                | Miscellaneous               |              | Units 1, 2, and 3 RCS Leakage Data, date ranges October 2021 – September 2022                            | 10/05/2022       |
| 71151                | Miscellaneous               |              | Unit 1, 2, and 3 RCS Dose Equivalent Iodine-131 Data, date ranges October 2021 – September 2022          | 10/05/2022       |
| 71151                | Miscellaneous               |              | Nuclear IQ – RCS Activities; date range October 1, 2021 through June 30, 2022                            |                  |
| 71151                | Procedures                  | 40DP-9LC01   | Performance Indicator – Barrier Integrity Cornerstone: RCS Leak Rate                                     | 4                |
| 71151                | Procedures                  | 40ST-9RC02   | ERFDADS (Preferred) Calculation of RCS Water Inventory   | 56               |
| 71151                | Procedures                  | 74CH-9ZZ15   | RCS Dose Equivalent Xe-133, Gross Activity, and Dose Equivalent I-131 Determination                      | 8                |
| 71151                | Procedures                  | 74DP-0LC01   | RCS Activity Performance Indicator   | 7                |
| 71151                | Procedures                  | 74DP-9CY04   | Systems Chemistry Specifications   | 110              |
| 71151                | Procedures                  | 74ST-9RC02   | Reactor Coolant System Specific Activity Surveillance  | 17               |
| 71151                | Procedures                  | 93DP-0LC09   | NRC ROP PI Data Collection, Verification and Submittal   | 12               |
| 71152A               | Corrective Action Documents |              | 22-05897   |                  |
| 71152A               | Drawings                    | 01-M-HFP-001 | P & I Diagram HVAC – Fuel Building   | 20               |
| 71152A               | Miscellaneous               |              | PVGS Operator Information Manual   | April 2020       |



| Inspection Procedure | Type                        | Designation    | Description or Title   | Revision or Date |
|----------------------|-----------------------------|----------------|--|------------------|
| 71152A               | Miscellaneous               |                | PVNGS Emergency Plan   | 74               |
| 71152A               | Miscellaneous               | 13-MC-HF-0501  | Fuel Bldg. – Radiation Monitoring System   | 2                |
| 71152A               | Miscellaneous               | 2022-00226     | Engineering Design Change  |                  |
| 71152A               | Miscellaneous               | 2022-00227     | Engineering Design Change  |                  |
| 71152A               | Miscellaneous               | 2022-00228     | Engineering Design Change  |                  |
| 71152A               | Procedures                  | 16DP-0EP31     | Emergency Preparedness Equipment Out of Service  | 14               |
| 71152A               | Procedures                  | 40DP-9OP37     | Safety Function Determination Procedure  | 11               |
| 71152A               | Work Orders                 |                | 5449356, 5449365, 5449366  |                  |
| 71152S               | Corrective Action Documents |                | 22-00419, 22-00512, 22-00612, 22-00657, 22-00688, 22-00758, 22-01069, 22-01376, 22-01584, 22-01562, 22-01759, 22-02191, 22-02438, 22-02654, 22-10743, 22-05006, 22-05787, 22-06897, 22-06192 |                  |
| 71152S               | Miscellaneous               | SQ-1763        | Maintenance Rule (a)(1) Issue Tracking Form  | 5                |
| 71152S               | Procedures                  | 40EP-9EO10-007 | Appendix 7: List of EOP Radiation Monitors   | 0                |
| 71152S               | Procedures                  | 74RM-9EF43     | Actions for Non-Functional Radiation Monitors: Preplanned Alternate Sampling Program   | 18               |