

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

February 8, 2022

EA-21-173

Mr. John Ferrick Site Vice President Entergy Operations, Inc. 17265 River Road Killona, LA 70057

SUBJECT: WATERFORD STEAM ELECTRIC STATION, UNIT 3 – INTEGRATED INSPECTION REPORT 05000382/2021004 AND EXERCISE OF ENFORCEMENT DISCRETION

Dear Mr. Ferrick:

On December 31, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Waterford Steam Electric Station, Unit 3. On January 18, 2022, 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.

Two findings of very low safety significance (Green) are documented in this report. One of these findings involved a violation of NRC requirements. We are treating this violation as a non-cited violation (NCV) consistent with Section 2.3.2 of the Enforcement Policy.

A licensee-identified violation which was determined to be of very low safety significance is documented in this report. We are treating this violation as an NCV consistent with Section 2.3.2 of the Enforcement Policy.

A violation of Title 10 of the *Code of Federal Regulations* (10 CFR) Part 37 with respect to large components containing category 2 quantities of radioactive material stored in robust structures was identified. However, Entergy Operations, Inc. met all the criteria in NRC Enforcement Guidance Memorandum 14-001, "Interim Guidance for Dispositioning 10 CFR Part 37 Violations with Respect to Large Components or Robust Structures Containing Category 1 or Category 2 Quantities of Material at Power Reactor Facilities Licensed Under 10 CFR Parts 50 and 52" for the use of enforcement discretion. Therefore, the NRC is exercising enforcement discretion (EA-21-173) and will not issue enforcement action for this violation. Additional details are contained in the enclosure.

If you contest the violations or the significance or severity of the violations documented in this inspection report, you should provide a response within 30 days of the date of this inspection report, with the basis for your denial, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional

Administrator, Region IV; the Director, Office of Enforcement; and the NRC Resident Inspector at Waterford Steam Electric Station, Unit 3.

If you disagree with a cross-cutting aspect assignment or a finding not associated with a regulatory requirement in this report, you should provide a response within 30 days of the date of this inspection report, with the basis for your disagreement, to the U.S. Nuclear Regulatory Commission, ATTN: Document Control Desk, Washington, DC 20555-0001; with copies to the Regional Administrator, Region IV; and the NRC Resident Inspector at Waterford Steam Electric Station, Unit 3.

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 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

Signed by Agrawal, Ami on 02/08/22

Ami N. Agrawal, Chief Reactor Projects Branch D Division of Reactor Projects

Docket No. 05000382 License No. NPF-38

Enclosure: As stated

cc w/ encl: Distribution via LISTSERV®

WATERFORD STEAM ELECTRIC STATION, UNIT 3 – INTEGRATED INSPECTION REPORT 05000382/2021004 AND EXERCISE OF ENFORCEMENT DISCRETION – DATED FEBRUARY 8, 2022

DISTRIBUTION:

SMorris, RA JMonninger, DRA MHay, DRP NTaylor, DRP RLantz, DRS JDixon, DRS DCylkowski, RC LHowell, RIV/OEDO MHaire, RCB VDricks, ORA LWilkins, OCA JDrake, NRR AMoreno, RIV/OCA RAlexander, RSLO FRamirez, IPAT AAgrawal, DRP ASanchez, DRP JFreeman, DRP APatz, DRP DChilds, DRP LReyna, DRP BCorrell, IPAT LFlores, IPAT R4Enforcement

ADAMS ACCESSION NUMBER: ML22028A000

| SUNSI Review ASanchez | | Non-Sensitive | | Publicly Available |
|--------------------------|-------------|--------------------|--------------|--------------------|
| | | | | |
| OFFICE | SRI:DRP/D | RI:DRP/D | ABC:DRS/IPAT | BC:DRS/EB1 |
| NAME | APatz/ADP | AChilds /AAC | FRamirez/FCR | VGaddy/VGG |
| DATE | 02/03/2022 | 02/03/2022 | 02/07/2022 | 02/03/2022 |
| OFFICE | ABC:DRS/EB2 | BC:DRS/RCB | BC:DRS/OB | ABC:DNMS/RxIB |
| NAME | ASiwy/ADS | MHaire/ <i>MSH</i> | HGepford/HJG | JEvans/ <i>JEE</i> |
| DATE | 02/03/2022 | 02/03/2022 | 02/03/2022 | 02/04/2022 |
| OFFICE | TL:ACES | SPE:DRP/D | ABC:DRP/D | |
| NAME | JGroom/JRG | ASanchez/AAS | AAgrawal | |
| DATE | 02/04/2022 | 02/04/2022 | 02/08/2022 | |
| | | OFFICIAL RE | CORD COPY | |

U.S. NUCLEAR REGULATORY COMMISSION Inspection Report

| Docket Number: | 05000382 |
|------------------------|---|
| License Number: | NPF-38 |
| Report Number: | 05000382/2021004 |
| Enterprise Identifier: | I-2021-004-0124 |
| Licensee: | Entergy Operations, Inc. |
| Facility: | Waterford Steam Electric Station, Unit 3 |
| Location: | Killona, LA 70057 |
| Inspection Dates: | October 01, 2021 to December 31, 2021 |
| Inspectors: | R. Alexander, Regional State Liaison Officer D. Antonangeli, Health Physicist B. Baca, Health Physicist S. Campbell, Senior Reactor Systems Engineer D. Childs, Resident Inspector L. Flores, Reactor Inspector N. Greene, Senior Health Physicist A. Patz, Senior Resident Inspector A. Sanchez, Senior Project Engineer C. Speer, Reactor Systems Engineer R. Williams, Operations Engineer |
| Approved By: | Ami N. Agrawal, Chief Reactor Projects Branch D Division of Reactor Projects |

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Waterford Steam Electric Station, Unit 3, 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 <u>https://www.nrc.gov/reactors/operating/oversight.html</u> for more information. A licensee-identified non-cited violation is documented in report section: 71124.05.

List of Findings and Violations

| Failure to Periodically Calibrate Radiation Monitors | | | | | | |
|--|--|-----------------------|----------|--|--|--|
| Cornerstone | Significance | Cross-Cutting | Report | | | |
| | | Aspect | Section | | | |
| Occupational | Green | [P.2] - | 71124.05 | | | |
| Radiation Safety | NCV 05000382/2021004-01 | Evaluation | | | | |
| | Open/Closed | | | | | |
| The inspectors ider | tified a Green NCV of 10 CFR 20.1501(c) | for failure to period | ically | | | |
| calibrate area, process, and effluent radiation monitoring equipment used to perform (e.g. | | | | | | |
| dose rate and effluent monitoring) measurements. Specifically, on or around July 2006, the | | | | | | |
| licensee began cha | nging the periodic calibrations of process, | effluent, and area i | adiation | | | |
| monitors without pro | oper technical justification or documented b | bases. | | | | |

| Failure to Incorporate Relevant Operating Experience when Closing Governor Valves | | | | | | |
|---|-----------------------------------|------------|---------|--|--|--|
| Cornerstone | Significance Cross-Cutting Report | | | | | |
| | | Aspect | Section | | | |
| Initiating Events | Green | [P.5] - | 71152 | | | |
| | FIN 05000382/2021004-02 | Operating | | | | |
| | Open | Experience | | | | |

The inspectors reviewed a self-revealed Green finding for the licensee's failure to appropriately incorporate relevant operating experience for troubleshooting the main steam governor valves. Specifically, the licensee failed to evaluate or incorporate a vendor bulletin per procedure EN-OE-100, "Operating Experience Program," and therefore did not restrict reactor power to 75 percent power when closing one governor valve for troubleshooting. The higher vibrations from the higher reactor power level impacted a steam line drain which sheared and forced a rapid unit downpower.

Additional Tracking Items

| Туре | Issue Number | Title | Report Section | Status |
|------|--------------|----------------------------|----------------|--------|
| EDG | EA-21-173 | Failure to Comply with | 71124.08 | Closed |
| | | Exemptions of 10 CFR 37 | | |
| | | Requirements for the | | |
| | | Monitoring, Detecting, and | | |
| | | Assessment of a Robust | | |
| | | Structure | | |

PLANT STATUS

The unit 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 activities described in IMC 2515, Appendix D, "Plant Status," conducted routine reviews using IP 71152, "Problem Identification and Resolution," 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) (3 Samples)

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

- (1) Low pressure safety injection system train A while train B is inoperable due to planned maintenance on October 21, 2021
- (2) Emergency diesel generator B while train A is inoperable due to planned maintenance on December 6, 2021
- (3) Component cooling water system train A while train B is inoperable due to planned maintenance on December 14, 2021

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

(1) The inspectors evaluated system configurations during a complete walkdown of the auxiliary component cooling water system on November 18, 2021.

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) Fire area RAB 7-001, elevation +35.00' reactor auxiliary building relay room on October 19, 2021

- (2) Fire areas NS-TB-003, turbine building mezzanine +40.00 East, and NS-TB-004, turbine building mezzanine +40.00 west on October 25, 2021
- (3) Fire area RAB 36-001, elevation -35.00' safety injection pump room A on November 1, 2021
- (4) Fire area RAB 32-001, elevation -35.00 & -4.00 auxiliary component cooling water room and pipe penetration area on November 2, 2021

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) Elevation +35.00' reactor auxiliary building relay room on December 16, 2021

71111.07A - Heat Sink Performance

Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

(1) Seal cooler heat exchangers for high pressure safety injection pumps, low pressure safety injection pumps, and containment spray pumps on December 30, 2021

71111.11Q - Licensed Operator Regualification Program and Licensed Operator Performance

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

(1) The inspectors observed and evaluated licensed operator performance in the control room during reactor trip circuit breaker testing on December 16, 2021.

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

(1) The inspectors observed and evaluated licensed operator performance in the simulator that involved a steam line break inside containment and a containment spray pump trip on overcurrent on October 27, 2021.

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (6 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) Maintenance Rule program (a)(3) assessment on November 19, 2021
- (2) Open phase isolation system on November 24, 2021
- (3) Plant protection system following a power supply failure on November 29, 2021
- (4) Auxiliary component cooling water system following transition from (a)(2) to (a)(1) on December 2, 2021

- (5) Qualified safety parameter display system following multiple failures on December 13, 2021
- (6) Component cooling water system train B on December 17, 2021

71111.13 - Maintenance Risk Assessments and Emergent Work Control

Risk Assessment and Management Sample (IP Section 03.01) (4 Samples)

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) Unplanned action statement entry for Technical Specification 3.7.6.3 and protected train swap from train B to train A while restoring operability to control room air handling unit B on October 4, 2021
- (2) Planned high risk during a containment entry with letdown isolated for reactor coolant system leak repair on October 8, 2021
- (3) Planned high risk during the transfer of 3AB/31AB buses from train A to train B (4160V safety related buses) on October 14, 2021
- (4) Planned high risk during the transfer of 3AB/31AB buses from train B to train A (4160V safety related buses) on November 9, 2021

71111.15 - Operability Determinations and Functionality Assessments

Operability Determination or Functionality Assessment (IP Section 03.01) (7 Samples)

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

- (1) Control room heating, ventilating, and air conditioning system operability following identification that valve testing was not performed as scheduled on October 4, 2021
- (2) Broad range gas monitor train B operability following multiple control room alarm indications of toxic gas on October 26, 2021
- (3) Emergency diesel generator B operability following failure to meet maximum tested demand on October 29, 2021
- (4) Permanent temporary emergency diesel generator operability when aligned to extend the allowed emergency diesel generator outage time after emergency diesel generator B was declared inoperable on October 29, 2021
- (5) Essential services chilled water train B operability following identification of blown fuse in static uninterruptible power supply on November 22, 2021
- (6) Dry cooling tower process radiation monitors functionality on December 3, 2021
- (7) Control element assembly's operability following identification of high coil voltages on December 9, 2021

71111.18 - Plant Modifications

<u>Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02)</u> (2 Samples)

The inspectors evaluated the following temporary or permanent modifications:

- (1) EC-82602, essential chiller AB and B uninterruptible power supply modification on November 16, 2021
- (2) EC-78927, train A broad range gas monitor modification on December 30, 2021

71111.19 - Post-Maintenance Testing

Post-Maintenance Test Sample (IP Section 03.01) (8 Samples)

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

- (1) Atmospheric dump valve A following replacement of upper and lower volume boosters and associated instrument air lines showing vibration wear on October 12, 2021
- (2) Shield building ventilation train B following the cleaning of a clogged differential pressure sensing line associated with the exhaust damper on October 20, 2021
- (3) Emergency diesel generator B following digital reference unit work performed on November 1, 2021
- (4) Emergency feedwater train A isolation and flow control valve following calibration on November 12, 2021
- (5) Dry cooling tower fan 6A motor vibration testing following tube bundle washing on December 6, 2021
- (6) Emergency diesel generator A room outside air intake damper following louver actuator replacement on December 9, 2021
- (7) Emergency feedwater steam generator 1 flow control valve following positioner replacement and calibration on December 9, 2021
- (8) Essential services chilled water chiller A following trip on low refrigerant pressure on December 10, 2021

71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

Surveillance Tests (other) (IP Section 03.01) (4 Samples)

- (1) Control room heating, ventilating, and air conditioning system prior test on June 22, 2021
- (2) Auxiliary component cooling water pump A surveillance test on October 6, 2021
- (3) Containment spray train B system actuation test on October 18, 2021
- (4) Emergency diesel generator B surveillance test on October 28, 2021

71114.04 - Emergency Action Level and Emergency Plan Changes

Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors evaluated the following submitted Emergency Action Level and Emergency Plan changes.
 - Waterford Emergency Plan, Revision 52 (effective August 2, 2021)

- EP-001-001, Recognition and Classification of Emergency Conditions, Revision 35 (effective August 2, 2021, implementing NEI 99-01, Revision 6based EALs, as approved by License Amendment No. 259, on May 19, 2021)
- EP-001-001, Recognition and Classification of Emergency Conditions, Revision 36 (effective August 2, 2021)
- W3F1-2021-0065, Waterford 3 Steam Electric Station Evacuation Time Estimate Sensitivity Study, Hurricane Ida Impact (dated September 20, 2021)

The evaluation of the documents does not constitute NRC approval.

71114.06 - Drill Evaluation

Drill/Training Evolution Observation (IP Section 03.02) (1 Sample)

The inspectors evaluated:

(1) The inspectors observed and evaluated licensed operator performance in the simulator for Licensed Operator Requalification Training on November 18, 2021

RADIATION SAFETY

71124.02 - Occupational ALARA Planning and Controls

Implementation of ALARA and Radiological Work Controls (IP Section 03.03) (4 Samples)

The inspectors reviewed as low as reasonably achievable practices and radiological work controls for the following activities:

- (1) Radiation Work Permit (RWP) 20210001, "RADIATION PROTECTION: Perform Job Coverage, Routine Surveys, Inspections and Walkdowns," Revision 0, and RWP 20210003, "CHEMISTRY Department to perform sampling and analysis in all Radiologically Controlled Areas," Revision 1, during radiological online activities and low level waste building storm recovery activities.
- (2) RWP 20210002, "OPERATIONS personnel to perform various work activities in Radiologically Controlled Areas," Revision 1, during radiological online activities and storm recovery activities.
- (3) RWP 20210004, "MAINTENANCE activities in all Radiologically Controlled Areas," Revision 0, during radiological online and site activities, to include the low level waste building storm recovery activities.
- (4) ALARA planning and control activities associated with In-Core Instrumentation outage work activities for Refueling Outage 24 in 2022 (ALARA package RWP 20220708). In addition, an outage specific go-no-go criteria, with adjustments made through the ALARA committee, was reviewed.

Radiation Worker Performance (IP Section 03.04) (1 Sample)

(1) The inspectors evaluated radiation worker and radiation protection technician performance during work activities.

71124.05 - Radiation Monitoring Instrumentation

Walkdowns and Observations (IP Section 03.01) (9 Samples)

The inspectors evaluated the following radiation detection instrumentation during plant walkdowns:

- (1) Area Radiation Monitors located within the reactor auxiliary building
- (2) Gem-5 Passive Radiation Monitors located at the primary access point
- (3) Portable ion chambers staged for use in the radiologically controlled area
- (4) Portable friskers used at the exit of the fuel handling building
- (5) Area Radiation Monitors located within the fuel handling building
- (6) Argos Personal Contamination Monitors located at the exit of the radiologically controlled area
- (7) Cronos-4 Small Article Monitor located at the exit of the radiologically controlled area
- (8) Fastscan Whole Body Counter located within the dosimetry building
- (9) High Purity Germanium Detectors located within the chemistry lab

Calibration and Testing Program (IP Section 03.02) (15 Samples)

The inspectors evaluated the calibration and testing of the following radiation detection instruments:

- (1) Fastscan Whole Body Counter, SN #13000002
- (2) Gem-5 Passive Monitor, HP-DS-084
- (3) Gem-5 Passive Monitor, HP-DS-088
- (4) Cronos-4 Small Article Monitor, HP-DS-093
- (5) Argos Personal Contamination Monitor, HP-DS-096
- (6) Tri-Carb 4910 Liquid Scintillation Counter, SN #SGL044201425
- (7) High Purity Germanium (HPGe) Detector, Detector #1
- (8) High Purity Germanium (HPGe) Detector, Detector #2
- (9) G5000W Alpha Beta Proportional Counter, SN #121601
- (10) Eberline AMS-4, HP-RD-300
- (11) Ludlum Model 9-3 Ion Chamber, CHP-DR-529
- (12) Containment High Range Area Radiation Monitor A, ARM-IRE-5400A
- (13) Containment High Range Area Radiation Monitor B, ARM-IRE-5400B
- (14) Fuel Handling Building Airborne Isolation Radiation Monitor, ARM-IR-0300.2
- (15) Containment Personnel Air Lock Area Radiation Monitor, ARM-IR-5018

Effluent Monitoring Calibration and Testing Program Sample (IP Sample 03.03) (2 Samples)

The inspectors evaluated the calibration and maintenance of the following radioactive effluent monitoring and measurement instrumentation:

- (1) Plant Stack Effluent Monitor, PRM-IR-0100.2
- (2) Fuel Handling Building Exhaust A, PRM-IR-5107A

<u>71124.08 - Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, &</u> <u>Transportation</u>

Radioactive Material Storage (IP Section 03.01) (3 Samples)

The inspectors evaluated the licensee's performance in controlling, labeling and securing the following radioactive materials:

- (1) Source 101288, Cs-137 Radioactive Source in JL Shepherd Calibrator
- (2) Source 111288, Cs-137 Radioactive Source in JL Shepherd Calibrator
- (3) Drums of radioactive material and waste stored in the Low Level Radwaste Storage Building (LLRWSB)

Radioactive Waste System Walkdown (IP Section 03.02) (2 Samples)

The inspectors walked down the following accessible portions of the solid radioactive waste systems and evaluated system configuration and functionality:

- (1) Radwaste Compactor Building
- (2) Radwaste Solidification Building

Waste Characterization and Classification (IP Section 03.03) (3 Samples)

The inspectors evaluated the following characterization and classification of radioactive waste:

- (1) UN2916, Radioactive Material, Type B(U) package, Class 7 Mixed Bead Resin (Package 19-1030)
- (2) UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7, RQ-Radionuclides Resin (Package 20-1005)
- UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7, RQ-Radionuclides - Resin (Package 20-1010)

Shipment Preparation (IP Section 03.04) (1 Sample)

(1) The inspectors observed the preparation of radioactive shipment 21-3041, dated November 18, 2021.

Shipping Records (IP Section 03.05) (4 Samples)

The inspectors evaluated the following non-excepted radioactive material shipments through a record review:

- (1) Shipment 21-1001: UN2912, Radioactive Material, Low Specific Activity (LSA-I), Class 7
- (2) Shipment 21-1003: UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7
- (3) Shipment 21-1007: UN2916, Radioactive Material, Type B(U) package, Class 7, Fissile-Excepted, RQ-Radionuclides
- (4) Shipment 21-1010: UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7

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) (1 Sample)

(1) October 1, 2020, through September 30, 2021

BI02: RCS Leak Rate Sample (IP Section 02.11) (1 Sample)

(1) October 1, 2020, through September 30, 2021

EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

(1) October 1, 2020 through September 30, 2021

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13) (1 Sample)

(1) October 1, 2020 through September 30, 2021

EP03: Alert And Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

(1) October 1, 2020 through September 30, 2021

71152 - Problem Identification and Resolution (PI&R)

Semiannual Trend Review (IP Section 02.02) (1 Sample)

(1) The inspectors reviewed the licensee's corrective action program for potential adverse trends in essential services chilled water chiller performance that might be indicative of a more significant safety issue.

Annual Follow-up of Selected Issues (IP Section 02.03) (1 Sample)

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

(1) Steam drain line break below governor valve No. 3 on December 11, 2020

INSPECTION RESULTS

| Failure to Periodically Calibrate Radiation Monitors | | | | | | | |
|--|-------------------------|---------------|----------|--|--|--|--|
| Cornerstone | Significance | Cross-Cutting | Report | | | | |
| | | Aspect | Section | | | | |
| Occupational | Green | [P.2] - | 71124.05 | | | | |
| Radiation Safety | NCV 05000382/2021004-01 | Evaluation | | | | | |
| | Open/Closed | | | | | | |

The inspectors identified a Green NCV of 10 CFR 20.1501(c) for failure to periodically calibrate area, process, and effluent radiation monitoring equipment used to perform (e.g. dose rate and effluent monitoring) measurements. Specifically, on or around July 2006, the licensee began changing the periodic calibrations of process, effluent, and area radiation monitors without proper technical justification or documented bases.

<u>Description</u>: Per NRC review of the licensee's pre-inspection self-assessment, LO-WLO-2021-0012, it identified that numerous radiation monitors included in Waterford 3's licensing basis were out compliance with federal regulations. The licensee conducted an adverse condition analysis on July 19, 2021 and cited a recent NRC identified violation as a missed opportunity to identify this out-of-compliance state for these detectors. Inspectors identified additional gaps in their corrective actions to address this noncompliance. At the time of inspection, the calibration frequency noncompliance had been identified four months prior to the inspection. However, the calibrations, and their associated frequencies, that would bring them into compliance are still awaiting approval. Since identification, nine of these radiation monitors have been calibrated but only due to regularly scheduled maintenance. Additionally, 29 of the 41 radiation monitors are still past due on their required calibration frequencies. There is still no justification for the current frequencies.

Upon NRC review of the adverse condition analysis, it identified that around July 2006, Waterford 3 started to increase these calibration frequencies for their radiation monitors due to the mis-categorizing of the monitors as non-critical. These radiation monitors' classifications were changed by work request 77057 in July 2006, AR 111079 (2011), AR125379 (2012), AR140232 (2012), AR141402 (2012), and AR180345 (2013). Due to this incorrect classification, the monitors could be extended multiple times without technical justification to support the corresponding change in calibration frequency.

Eight identified radiation monitors that had their calibration frequencies changed were process and effluent monitors. The requirements for these monitors are listed in the licensee's Final Safety Analysis Report (FSAR), Chapter 11, Section 5.2.5 states, in part, calibration is performed every 18 months or indication of equipment malfunction. In this case, 6 of these 8 calibrations frequencies were retired for their process monitors which means they no longer performed calibration on these process monitors. Additionally, one process and one effluent monitor had their frequencies extended to 3 and 5 years, respectively, from the required 18 months without proper technical justification.

In addition to the eight process and effluent monitors, thirty-three area radiation monitors had their calibration frequencies extended without proper technical justification. These frequencies were changed mostly from 3-year frequencies to 6.75 years as well as a couple having extensions to 9-year calibration frequencies. Area radiation monitors listed in the licensee's FSAR, Chapter 12, Table 12.3-2, and are used, in part, to (1) measure ambient gamma radiation and to indicate to operations personnel the ambient gamma radiation in specific areas of the plant, (2) annunciate and warn of abnormal radiation levels in specific areas of the plant, (3) provide base data in controlling access of personnel to radiation areas,(4) warn of uncontrolled or inadvertent movement of radioactive material in the plant, (5) provide local indication and alarms at key points where a substantial change in radiation levels might be of immediate importance to personnel frequenting the area, and (6) furnish information for making radiation surveys. Additionally, a specific note for these monitors in Table 12.3-2 of the FSAR points out these monitors are used by radiation protection during shutdown for personnel protection.

Upon review of calibration records, it was shown that 51 percent of these area radiation detectors required parameter adjustments or maintenance of some form at the end of their calibration frequency. The level of adjustments or maintenance does not support these extended calibration frequencies. The inspectors determined the preventative maintenance program, as described in licensee Procedure EN-DC-324, "Preventative Maintenance Program," Revision 26, does not prescriptively include the involvement of radiation protection within its program or process. By not including a member from the radiation protection organization during the calibration frequency change process for these radiation monitors, the licensee personnel implementing the changes failed to fully understand the radiation monitor functions, as described in the FSAR, and how they are related to Title 10 of the Code of Federal Regulations (10 CFR) Part 20, "Standards for Protection Against Radiation," Subpart F, "Surveys and Monitoring."

Corrective Actions: The licensee has evaluated this issue via an adverse condition analysis, which is addressed in this writeup. The licensee entered this additional information pertaining to the writeup in their corrective action program.

Corrective Action References: Condition Report CR-WF3-2021-06593 Performance Assessment:

Performance Deficiency: The licensee failed to periodically calibrate 41 of their area, process, and effluent radiation monitors in accordance with their requirements.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Plant Facilities/Equipment and Instrumentation attribute of the Occupational Radiation Safety cornerstone and adversely affected the cornerstone objective to ensure the adequate protection of the worker health and safety from exposure to radiation from radioactive material during routine civilian nuclear reactor operation. Additionally, the finding was similar to Example 6.b in Appendix E to Inspection Manual Chapter (IMC) 0612, "Examples of Minor Issues." This example states that an issue is more than minor if the performance deficiency had the potential to lead to a more significant radiation safety concern because of an ineffective radiation program barrier. Specifically, when recalibrated or response checked, the as-found condition of the instrument was not within acceptance criteria for the calibration. In this case, it was an ineffective radiation program barrier due to the process allowing maintenance to adjust these frequencies without any technical justifications. Furthermore, upon review, it was shown that 51 percent of these area radiation detectors required parameter adjustments or maintenance upon their next calibration.

Significance: The inspectors assessed the significance of the finding using Appendix C, "Occupational Radiation Safety SDP." The inspectors determined the finding had a very low safety significance (Green) because: (1) it was not associated with ALARA planning and work controls, (2) it was not an overexposure, (3) there was no potential for an overexposure; and (4) the ability to assess dose was not compromised.

Cross-Cutting Aspect: P.2 - Evaluation: The organization thoroughly evaluates issues to ensure that resolutions address causes and extent of conditions commensurate with their safety significance. Specifically, in this case, the licensee failed to identify the extent of conditions of a previous non-cited violation documented in CR-WF3-2019-07366.

Enforcement:

Violation: Title 10 CFR 20.1501(c) states, in part, the licensee shall ensure that instruments and equipment used for quantitative radiation measurements (e.g., dose rate and effluent monitoring) are calibrated periodically for the radiation measured.

Contrary to the above, beginning in July 2006, the licensee failed to ensure that monitors used for quantitative radiation measurements are calibrated periodically for the radiation measured. Specifically, the licensee began changing the periodic calibrations of these monitors without providing adequate technical justification for the change. As a result, 51 percent of the area radiation monitors required some form of maintenance at calibration, six of the process monitors had their calibrations canceled, and all monitors did not have proper technical justification to support the change in calibration frequency.

Enforcement Action: This violation is being treated as a non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.

 Licensee-Identified Non-Cited Violation
 71124.05

 This violation of very low safety significance was identified by the licensee and has been entered into the licensee corrective action program and is being treated as a non-cited violation, consistent with Section 2.3.2 of the Enforcement Policy.

 Violation:
 Title 10 CFR Part 50, Appendix B, Criterion XVI, "Corrective Action," requires, in program and is being that and its program and its program.

part, that measures shall be established to assure that conditions adverse to quality, such as failures, malfunctions, deficiencies, deviations, defective material and equipment, and nonconformances are promptly identified and corrected.

Contrary to the above, from September 23, 2019 to July 19, 2021, the licensee failed to establish measures to assure that a condition adverse to quality was promptly identified and corrected. Specifically, during a self-assessment, the licensee identified a failure to adequately characterize and correct the conditions outlined in CR-WF3-2019-7366, which documented a non-cited violation for the failure to periodically calibrate emergency plan radiation monitors. Although the licensee corrected the radiation monitors specifically noted in the non-cited violation from 2019, they failed to ensure the calibration frequencies for additional, related radiation monitors, as described in Updated Final Safety Analysis Report (UFSAR) 11.5.2 for Continuous Process and Effluent Radiological Monitoring instruments and USFAR 12.3.4.1 for Area Radiation Monitoring System instruments, were being calibrated at required and committed frequencies. Nor did the licensee ensure that existing frequencies were justified through a sound technical assessment of performance. The radiation monitor calibration frequencies are described in numerous licensee documents, including the applicable UFSAR sections, the Offsite Dose Calculation Manual, the Technical Requirements Manual, the Technical Specifications, and/or plant procedures. As a result, the licensee failed to identify 41 radiation monitors which were not calibrated per associated calibration requirements and commitments.

The licensee initiated corrective actions to perform a cause evaluation and develop corrective actions to address the conditions for all associated and affected radiation monitors.

Significance/Severity: Green. The significance of the finding was assessed using IMC 0609, Appendix C, "Occupational Radiation Safety SDP," and because the finding was not: (1) related to as low as is reasonably achievable planning, (2) did not involve an overexposure, (3) did not involve a substantial potential for overexposure, and (4) the ability

to assess dose was not compromised, the finding was determined to be of very low safety significance (Green).

Corrective Action References: The condition was entered into the corrective action program as CR-WF3-2021-03832.

| Enforcement | Enforcement Action EA-21-173: Failure to Comply with | 71124.08 |
|-------------|--|----------|
| Discretion | Exemptions of 10 CFR 37 Requirements for the Monitoring, | |
| | Detecting, and Assessment of a Robust Structure | |

<u>Description</u>: During the 2012 refueling outage, the licensee removed old steam generator units and their old reactor vessel head from the containment building and transferred them to a large concrete storage module outside of the protected area. Although this waste material exceeded the threshold for a Category 2 quantity of radioactivity, it did not contain discrete radioactive sources, ion-exchange resins, or activated material that weighed less than 2,000 kg. Therefore, the steam generators and old reactor vessel head are considered waste material that is exempt from 10 CFR 37 Subparts B, C, and D, but must comply with the requirements of 10 CFR 37.11. The inspectors observed that some of these requirements were not met.

Corrective Actions: The licensee entered the issue into the corrective action program.

Corrective Action References: CR-WF3-2021-06611 Enforcement:

Severity/Significance: Minor

Violation: 10 CFR 37.11 requires, in part, minimal security requirements for a category 2 quantity of radioactive waste that is exempt from 10 CFR 37 Subparts B, C, and D. Contrary to the above, from March 19, 2014 (initial compliance date with 10 CFR 37) to the present, the licensee failed to meet the minimal security requirements for a category 2 quantity of radioactive waste that is exempt from 10 CFR 37 Subparts B, C, and D. Specifically, the licensee stored a category 2 quantity of exempt waste in a large concrete storage module without meeting all the security requirements of 10 CFR 37.11.

Discretion Basis: This violation met the criteria for Enforcement Discretion as described in Enforcement Guidance Memorandum (EGM) 14-001, "Interim Guidance for Dispositioning 10 CFR Part 37 Violations with Respect to Large Components or Robust Structures Containing Category 1 or Category 2 Quantities of Material at Power Reactor Facilities Licensed Under 10 CFR Parts 50 and 52."

| Failure to Incorporate Relevant Operating Experience when Closing Governor Valves | | | | | | |
|---|---------------------------------------|------------|---------|--|--|--|
| Cornerstone | one Significance Cross-Cutting Report | | | | | |
| | | Aspect | Section | | | |
| Initiating Events | Green | [P.5] - | 71152 | | | |
| - | FIN 05000382/2021004-02 | Operating | | | | |
| | Open | Experience | | | | |

The inspectors reviewed a self-revealed Green finding for the licensee's failure to appropriately incorporate relevant operating experience for troubleshooting the main steam governor valves. Specifically, the licensee failed to evaluate or incorporate a vendor bulletin per procedure EN-OE-100, "Operating Experience Program." and therefore did not restrict

reactor power to 75 percent power when closing one governor valve for troubleshooting. The higher vibrations from the higher reactor power level impacted a steam line drain which sheared and forced a rapid unit downpower.

<u>Description</u>: On December 11, 2020, the licensee identified steam coming from the protective enclosure for the high-pressure turbine. The steam leakage rate quickly increased and started to affect reactor power. In response, the licensee performed a rapid downpower for Unit 3 down to Mode 3, Hot Standby. Upon inspection, the licensee found that the source of the leak was a sheared drain line pipe at a socket weld joint directly beneath governor valve 3.

After performing an apparent cause analysis, the licensee identified three primary causes of the failure. Cause 1 was that the vendor pipe weld was changed from the expected groove weld to be a socket weld. Socket welds cause a higher stress concentration. Cause 2 was assumed poor workmanship. Though the pipe shearing destroyed any firm evidence, the welds at the other three governor valves were found to be poor and therefore the destroyed weld was also assumed to be poor. Cause 3 was increased vibrations due to governor valve troubleshooting. The licensee maintained Unit 3 power at 89% when closing and troubleshooting one of the four governor valves.

In November 2020, governor valves 1 and 4 were exhibiting unexpectedly high oscillations. In order to troubleshoot, the licensee reduced power to 89 percent and closed the suspect governor valve. This power level was in accordance with licensee procedure, OP-903-007, "Turbine Inlet Valve Cycling Test." However, according to a vendor technical bulletin issued in 2014, the maximum power should be approximately 75 percent when the valves are closed for longer than one hour in order to limit high vibrations in the turbine skid. This lower power would maintain the same steam flow through the other three governor valves with one valve closed as the valves would experience at 100 percent power and all four valves open. By operating the plant at 89 percent power and therefore at a higher steam flow through each governor valve, vibrations in the entire turbine valve skid increased and caused fatiguing of the drain line piping. The licensee was aware of the 2014 vendor technical bulletin and did identify higher vibrations in the main turbine bearings during the troubleshooting. However, the vibrations did not exceed procedural limitations and therefore the licensee did not reduce reactor power. The licensee maintained the plant in this high flow condition for approximately 69 hours.

The licensee procedure to examine relevant operating experience at the time of the vendor bulletin issuance was EN-OE-100, "Operating Experience Program," Revision 20. EN-OE-100 stated, in part, that when industry sources identify a condition that has an impact, condition reports are generated to provide for evaluations and corrective action plans. The licensee was unable to identify any record of the relevant vendor bulletin in the station's corrective action program.

Corrective Actions: The licensee's immediate actions were to fix the failed weld. The licensee also performed nondestructive evaluation of the other similar three governor valve drain welds. No flaws were identified. All four welds were then modified to improve fatigue performance. The licensee incorporated the vendor bulletin into OP-903-007 to preclude maintaining reactor power greater than 75 percent power if one of the governor valves is expected to be closed for more than an hour. The licensee screened for other vendor bulletins that may be applicable. To limit the effects of vibrations on pipe stress, the licensee is also evaluating adding pipe supports to the drain lines.

Corrective Action References: CR-WF3-2020-7058

Performance Assessment:

Performance Deficiency: The failure to establish appropriate power limits as recommended by the vendor was a performance deficiency.

The failure to adequately evaluate and incorporate vendor recommend guidance for establishing power levels for closing one governor valve. Specifically, the licensee failed to implement EN-OE-100, "Operating Experience Program," Revision 20, and evaluate and incorporate vendor recommended guidance to set reactor power limits for closing one governor valve at power.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Procedure Quality attribute of the Initiating Events cornerstone and adversely affected the cornerstone objective to limit the likelihood of events that upset plant stability and challenge critical safety functions during shutdown as well as power operations.

Significance: The inspectors assessed the significance of the finding using Appendix A, "The Significance Determination Process (SDP) for Findings At-Power." The inspectors assessed the significance of the finding using Appendix A, "The Significance Determination process (SDP) for Findings At-Power." Using IMC 0609, Appendix A, Exhibit 1, "initiating Events Screening Questions," the inspectors determined the finding to be of very low safety significance (Green) because the steam break did not cause a loss of mitigation equipment relied upon to transition the plant to a stable shutdown condition.

Cross-Cutting Aspect: P.5 - Operating Experience: The organization systematically and effectively collects, evaluates, and implements relevant internal and external operating experience in a timely manner. The licensee chose not to implement relevant external operating experience and guidance from the vendor. As a result, the governor valve drain pipe experienced high stress and failed.

<u>Enforcement</u>: Inspectors did not identify a violation of regulatory requirements associated with this finding.

EXIT MEETINGS AND DEBRIEFS

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

- On November 18, 2021, the inspectors presented the Radiation Safety inspection results to Mr. B. Lindsey, Regulatory Assurance Performance Improvement Manager, and other members of the licensee staff.
- On January 4, 2022, the inspectors presented the EP performance indicator verification and Emergency Plan/EAL change review inspection results to J. Overly, Manager, Emergency Preparedness, and other members of the licensee staff.
- On January 18, 2022, the inspectors presented the integrated inspection results to John Ferrick and other members of the licensee staff.

DOCUMENTS REVIEWED

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|---------------|---------------------|--|-------------|
| Procedure | | - | | Date |
| 71111.04 | Drawings | G160 Sheet 1 | Flow Diagram Component Closed Cooling Water System | 50 |
| 71111.04 | Drawings | G160 Sheet 2 | Flow Diagram Component Closed Cooling Water System | 53 |
| 71111.04 | Drawings | G160 Sheet 3 | Flow Diagram Component Closed Cooling Water System | 32 |
| 71111.04 | Drawings | G160 Sheet 4 | Flow Diagram Component Closed Cooling Water System | 17 |
| 71111.04 | Drawings | G160 Sheet 5 | Flow Diagram Component Closed Cooling Water System | 22 |
| 71111.04 | Drawings | G160 Sheet 6 | Flow Diagram Component Closed Cooling Water System | 16 |
| 71111.04 | Procedures | OP-002-003 | Component Cooling Water | 321 |
| 71111.04 | Procedures | OP-009-002 | Emergency Diesel Generator | 359 |
| 71111.04 | Procedures | OP-009-008 | Safety Injection System | 46 |
| 71111.05 | Fire Plans | NS-TB-003 | Turbine Building Mezzanine +40.00 East | 1 |
| 71111.05 | Fire Plans | NS-TB-004 | Turbine Building Mezzanine +40.00 West | 1 |
| 71111.05 | Fire Plans | RAB 32-001 | Auxiliary Component Cooling Water Room and Pipe | 10 |
| | | | Penetration Area -4.00, -35.00 RAB | |
| 71111.05 | Fire Plans | RAB 36-001 | Safety Injection Pump Room "A" -35.00 RAB | 9 |
| 71111.05 | Fire Plans | RAB 7-001 | Elev. +35.00' RAB Relay Room | 12 |
| 71111.06 | Calculations | EC-F00-013 | Hydraulic Calculation of Suppression System FPM-29 | 2 |
| 71111.06 | Calculations | MNQ3-5 | Flooding Analysis Outside Containment | 6 |
| 71111.06 | Drawings | G322 Sheet 9 | Cable Vault & Electrical Equipment Room Sections & Details | 9 |
| 7444 00 | <u> </u> | FO 000000505 | Sh.9 | 00/44/0040 |
| /1111.06 | Engineering | EC-0000038535 | +35 Relay Room Flooding Added to MNQ3-5 | 08/14/2012 |
| 71111.07A | Calculations | EC-M97-001 | Component Cooling Water Flow to the HPSI/LPSI Pumps | 0 |
| 71111.07A | Miscellaneous | ER-W3-2001- | CCW Monitoring Plan | 0 |
| _ | | 1125-000 | 5 | |
| 71111.07A | Miscellaneous | ER-W3-2001- | CCW Monitoring Plan clarifications | 0 |
| | | 1125-001 | Ŭ | |
| 71111.07A | Miscellaneous | W3-DBD-001 | Safety Injection System Design Basis Document | 305 |
| 71111.07A | Miscellaneous | W3-DBD-013 | Containment Spray System Design Basis Document | 302 |
| 71111.07A | Procedures | CE-002-007 | Maintaining Component Cooling Water Chemistry | 310 |
| 71111.07A | Procedures | PE-001-015 | Generic Letter 89-13 Heat Exchanger Test Basis | 5 |
| 71111.07A | Procedures | PE-004-024 | ACCW & CCW System Flow Balance | 308 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|-------------------|-------------------|---|-------------|
| Procedure | | | | Date |
| 71111.07A | Procedures | SEP-HX-WF3- | Generic Letter 89-13 Heat Exchanger Test Basis | 0 and 1 |
| | | 001 | | |
| 71111.11Q | Procedures | EP-001-001 | Recognition and Classification of Emergency Conditions | 36 |
| 71111.11Q | Procedures | OP-903-107 | Plant Protection System Functional Test | 317 |
| 71111.12 | Corrective Action | CR-WF3-YYYY- | 2021-07027, 2021-07075, 2021-07079 | |
| | Documents | NNNN | | |
| | | Condition reports | | |
| | | generated | | |
| | | following | | |
| | | maintenance on | | |
| | | component | | |
| | | cooling water | | |
| | | train B | | |
| 71111.12 | Corrective Action | CR-WF3-YYYY- | 2021-02446, 2021-02757, 2021-02795, 2021-02895, | |
| | Documents | NNNN | 2021-02951, 2021-02952, 2021-03164, 2020-07373, | |
| | | | 2020-03189, 2020-06696, 2020-04736, 2019-05281, | |
| | | | 2019-04383, 2021-01707 | |
| 71111.12 | Corrective Action | CR-WF3-YYYY- | 2021-06829 | 12/06/2021 |
| | Documents | NNNN | | |
| | Resulting from | No preventive | | |
| | Inspection | maintenance | | |
| | | planned for | | |
| | | vendor | | |
| | | recommended | | |
| | | testing of open | | |
| | <u> </u> | phase system | | |
| /1111.12 | Engineering | EC 52305 | Design Change to Detect Open Phase Condition on Primary | 6/25/2015 |
| 744440 | Changes | | Side of Startup Transformers A and B | 00/05/0004 |
| /1111.12 | Engineering | EC-0000083893 | CYCLE 23, REFUEL 23 MAINTENANCE RULE (A)(3) | 02/25/2021 |
| 744440 | Changes | | | |
| /1111.12 | Miscellaneous | TD-P517.0015 | PCS2000 Open Phase Detection System Vendor Manual | 1 |
| /1111.12 | Procedures | EN-DC-203 | Maintenance Rule Program | 5 |
| 71111.12 | Procedures | EN-DC-203 | Maintenance Rule Program | 4 |
| 71111.12 | Procedures | EN-DC-204 | Maintenance Rule Scope and Basis | 5 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|--------------------------------|--|---|-------------|
| Procedure | | | | Date |
| 71111.12 | Procedures | EN-DC-204 | Maintenance Rule Scope and Basis | 6 |
| 71111.12 | Procedures | EN-DC-205 | Maintenance Rule Monitoring | 8 |
| 71111.12 | Procedures | EN-DC-205 | Maintenance Rule Monitoring | 7 |
| 71111.12 | Procedures | EN-DC-207 | Maintenance Rule Periodic Assessment | 4 |
| 71111.12 | Procedures | ME-004-071 | Startup Transformer | 323 |
| 71111.12 | Procedures | OP-600-035 | Alarm Response Procedure for Main Transformer, Unit | 19 |
| 71111 12 | Procedures | PF-004-024 | ACCW & CCW System Flow Balance | 308 |
| 71111 12 | Work Orders | Work orders for | 00550313 52024202 52030183 52088813 | 12/17/2021 |
| 71111.12 | Work Orders | component cooling water train B outage | 00000010, 02024202, 02000100, 0200010 | 12/11/2021 |
| 71111.13 | Procedures | EN-OP-119 | Protected Equipment Postings | 14 |
| 71111.13 | Procedures | EN-WM-104 | On Line Risk Assessment | 44 |
| 71111.13 | Procedures | OP-002-005 | Chemical and Volume Control | 69 |
| 71111.13 | Procedures | OP-006-001 | Plant Distribution (7KV, 4KV and SSD) System | 341 |
| 71111.13 | Work Orders | | 52783895, 52919862, 00567589, 567999-01 | |
| 71111.15 | Corrective Action | CR-WF3-2021- 05431 | OP-903-119 Section 5.1 HVC ISI Valve Test was not performed as scheduled on 10/4/2021 | 10/18/2021 |
| 71111.15 | Corrective Action Documents | CR-WF3-2021- 05818 | Dry cooling tower sump #1 radiation monitor non-functional | 10/21/2021 |
| 71111.15 | Corrective Action Documents | CR-WF3-2021- 05875 | Received unexpected annunciator for toxic gas detected | 10/24/2021 |
| 71111.15 | Corrective Action Documents | CR-WF3-2021- 06010 | EDG B could not be raised to 110% of design basis load | 10/29/2021 |
| 71111.15 | Corrective Action Documents | CR-WF3-2021- 06909 | Essential chiller A tripped | 12/10/2021 |
| 71111.15 | Corrective Action | CR-WF3-2021- | Unexpected annunciator for control element drive | 12/09/2021 |
| | Documents | 06924 | mechanism control system timer failure alarm | |
| 71111.15 | Corrective Action | CR-WF3-YYYY- | 2021-05238, 2021-05322, 2021-06180, 2021-06194, | |
| | Documents | NNNN | 2021-06234, 2021-05698, 2021-05700, 2021-05711 | |
| 71111.15 | Corrective Action | CR-WF3-2021- | Control room heating, ventilating, and air conditioning | 11/03/2021 |
| | Documents Resulting from | 06132 | system in-service testing relief was not not requested | |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|-------------------|---------------|--|-------------|
| Procedure | | | | Date |
| | Inspection | | | |
| 71111.15 | Corrective Action | CR-WF3-2021- | General assumptions were no longer accurate after | 11/03/2021 |
| | Documents | 06133 | incorporation of updated code case | |
| | Resulting from | | | |
| | Inspection | | | |
| 71111.15 | Drawings | G8532302 | HVAC Air Flow Diagram Control Room | 2 |
| 71111.15 | Drawings | G853SH22 | HVAC Air Flow Diagram Control Room | 7 |
| 71111.15 | Miscellaneous | | FSAR Section 6.4 CR Air Conditioning | 10 |
| 71111.15 | Miscellaneous | | Waterford 3 Position Paper on TS Amendment 250 (TSTF- | 09/16/2017 |
| | | | 545) Implementation | |
| 71111.15 | Miscellaneous | FSAR Section | CONTROL ROOM AIR CONDITIONING SYSTEM | 310 |
| | | 9.4.1 | | |
| 71111.15 | Miscellaneous | PSA-WF3-01 | WF3 Internal Events PSA Model Summary Report | 2 |
| 71111.15 | Miscellaneous | W3-DBD-038 | Safety Related HVAC - Control Room Design Basis | 301 |
| | | | Document | |
| 71111.15 | Procedures | 8002201-FTP- | Factory Test Procedure for Governor Equipment | 2 |
| | | GOV | | |
| 71111.15 | Procedures | EN-EP-202 | Equipment Important to Emergency Response (EITER) | 3 |
| 71111.15 | Procedures | EN-OP-104 | Operability Determination Process | 17 |
| 71111.15 | Procedures | MI-003-504 | Broad Range Gas Detection System Channel Function Test | 316 |
| | | | and Calibration HVCIA5510 A or HVCIA5510 B | |
| 71111.15 | Procedures | OP-006-010 | TEDG Operations | 1 |
| 71111.15 | Procedures | OP-100-014 | Tech Spec and Tech Requirements Compliance | 358 |
| 71111.15 | Procedures | OP-901-315 | TEDG Emergency Start | 1 |
| 71111.15 | Procedures | OP-903-001 | Technical Specification Surveillance Logs | 90 |
| 71111.15 | Procedures | OP-903-068 | Emergency Diesel Generator and Subgroup Relay | 326 |
| | | | Operability Verification | |
| 71111.15 | Procedures | OP-903-119 | Secondary Auxiliaries Quarterly IST Valve Test | 36 |
| 71111.15 | Work Orders | | 558595 | |
| 71111.18 | Engineering | EC-82601, EC- | Essential Chiller Control Panel WC-1 (3B-SB) and WC-1 | 11/16/2021 |
| | Changes | 82602, WO | (3C-SAB) UPS | |
| | | 00544077-07 | | |
| 71111.19 | Drawings | 1564-7398 | OPP & PAR Blade Damper with Ext Linkage DA-2-7402 | 4 |
| 71111.19 | Miscellaneous | W3-DBD-002 | Emergency Diesel Generator & Automatic Load Sequencer | 306 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|---------------|------------------------|--|-------------|
| Procedure | | | | Date |
| | | | Design Basis Document | |
| 71111.19 | Procedures | EN-MA-143 | Use of Viper or Votes Infinity Air Operator Valve Diagnostics | 13 |
| 71111.19 | Procedures | OP-002-004 | Chilled Water System | 322 |
| 71111.19 | Procedures | OP-903-043 | Shield Building Ventilation System Operability Check | 316 |
| 71111.19 | Procedures | OP-903-118 | Primary Auxiliaries Quarterly IST Valve Tests | 61 |
| 71111.19 | Procedures | OP-903-120 | Containment and Miscellaneous Systems Quarterly IST Valve Tests | 35 |
| 71111.19 | Procedures | OP-903-121 | Safety Systems Quarterly IST Valve Tests | 35 |
| 71111.19 | Procedures | OP-903-124 | CVAS Pressure Boundary Testing | 307 |
| 71111.19 | Work Orders | | 449514, 52927045, 00569649, 52978821, 00571637 | |
| 71111.22 | Calculations | NOSG-LPL-90-01 | Control Room Habitability | 01/04/1991 |
| 71111.22 | Procedures | MM-003-045 | Control Room Air Conditioning System Surveillance | 316 |
| 71111.22 | Procedures | OP-903-036 | Containment Spray Actuation Signal Test | 308 |
| 71111.22 | Procedures | OP-903-050 | Component Cooling Water and Auxiliary Component Cooling Water Pump and Valve Operability Test | 43 |
| 71111.22 | Procedures | OP-903-068 | Emergency Diesel Generator and Subgroup Relay Operability Verification | 326 |
| 71111.22 | Procedures | OP-903-116 | Train B Integrated Emergency Diesel Generator/Engineering Safety Features Test | 55 |
| 71111.22 | Work Orders | WO-WF3- 52965875-01 | OP-903-119 Sect. 5.1 Perform HVC ISI Valve Test | 06/22/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Screening – EP-001-001, Recognition and Classification of Emergency Conditions, Rev. 35 | 07/28/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Screening – EP-001-001, Recognition and Classification of Emergency Conditions, Rev. 36 | 07/28/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Screening – Waterford 3 Emergency Plan, Rev. 52 | 07/27/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Screening (Change 19) – Waterford 3 Emergency Plan, Rev. 52 | 07/27/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Evaluation (Changes 13-15, 20, 27-30, 48, 53, 56, & 57) – Waterford 3 Emergency Plan, Rev. 52 | 07/29/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Evaluation (Change 19) – Waterford 3 Emergency Plan, Rev. 52 | 07/27/2021 |
| 71114.04 | Miscellaneous | | 10CFR50.54(Q)(3) Evaluation – WF3 SES Evacuation Time | 9/8/2021 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|-------------------|----------------|---|-------------|
| Procedure | | | | Date |
| | | | Estimate Sensitivity Study, Hurricane Ida Impact | |
| 71114.04 | Miscellaneous | W3F1-2021-0065 | Waterford 3 Steam Electric Station Evacuation Time | 09/20/2021 |
| | | | Estimate Sensitivity Study, Hurricane Ida Impact | |
| 71114.04 | Procedures | EN-EP-305 | Emergency Planning 10CFR50.54(q) Review Program | 8 |
| 71114.04 | Procedures | EP-001-001 | Recognition and Classification of Emergency Conditions | 35 |
| 71114.04 | Procedures | EP-001-001 | Recognition and Classification of Emergency Conditions | 36 |
| 71124.02 | ALARA Plans | 20220708 | Refuel 24: In-Core Instrument (ICI) Removal/Installation/Cut | 0 |
| | | | up of ICIs, Work on ICI Equipment, Replacement Swageloc | |
| | | | Bodies, and Heated Junction Thermocouple (HJTC) Work | |
| | | | Activities | |
| 71124.02 | Corrective Action | CR-WF3-YYYY- | 2021-01251, 2021-01493, 2021-02285, 2021-02400, | |
| | Documents | XXXXX | 2021-05550 | |
| 71124.02 | Miscellaneous | | Plan Of the Day: Waterford 3 Daily ALARA Report | 11/16/2021 |
| 71124.02 | Miscellaneous | | Waterford 3 Refueling Outage 22: Post Outage ALARA | |
| | | | Report | |
| 71124.02 | Miscellaneous | | Waterford 3 Refueling Outage 23: Post Outage ALARA | |
| | | | Report | |
| 71124.02 | Miscellaneous | | Waterford 3 Abbreviated 5-Year Exposure Reduction Plan: | 0 |
| | | | 2021 - 2025 | |
| 71124.02 | Miscellaneous | | Waterford 3 Site Dose Totals Online/Outage for 2018-2020 | |
| 71124.02 | Miscellaneous | TSR-17-01 | Temporary Shielding Request: Shadow Shield around | 11/14/2017 |
| | | | Dewatering Tank in the RadWaste Services Building | |
| 71124.02 | Procedures | EN-RP-102 | Radiological Control | 7 |
| 71124.02 | Procedures | EN-RP-105 | Radiological Work Permits | 19 |
| 71124.02 | Procedures | EN-RP-110 | ALARA Program | 14 |
| 71124.02 | Procedures | EN-RP-110-01 | ALARA Initiative Deferrals | 1 |
| 71124.02 | Procedures | EN-RP-110-03 | Collective Radiation Exposure (CRE) Reduction Guidelines | 4 |
| 71124.02 | Procedures | EN-RP-110-04 | Radiation Protection Risk Assessment Process | 8 |
| 71124.02 | Procedures | EN-RP-110-06 | Outage Dose Estimating and Tracking | 1 |
| 71124.02 | Procedures | HP-001-114 | Technical Procedure Control of Temporary Shielding | 17 |
| 71124.02 | Radiation Work | 202010004 | Maintenance Activities in all Radiologically Controlled Areas | 0 |
| | Permits (RWPs) | | | |
| 71124.02 | Self-Assessments | | Waterford 3 Annual Radiation Protection Program Report: 2020 | 02/24/2021 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|------------------|----------------|---|-------------|
| Procedure | | | | Date |
| 71124.02 | Self-Assessments | LO-WLO-2021- | Occupational ALARA Planning and Controls - Waterford 3 | 07/19/2021 |
| | | 00012 | Steam Electric Station | |
| 71124.02 | Self-Assessments | QA-14/15-2021- | Combined Radiation Protection and Radwaste Audit | 10/25/2021 |
| | | W3-01 | | |
| 71124.05 | Calibration | | GEM-5 Passive Radiation Monitor, HP-DS-084 | 07/19/2021 |
| | Records | | | |
| 71124.05 | Calibration | | GEM-5 Passive Radiation Monitor, HP-DS-088 | 07/12/2021 |
| | Records | | | |
| 71124.05 | Calibration | | CRONOS-4 Small Article Monitor, HP-DS-093 | 07/13/2021 |
| | Records | | | |
| 71124.05 | Calibration | | ARGOS Personal Contamination Monitor, HP-DS-096 | 05/19/2021 |
| | Records | | | |
| 71124.05 | Calibration | | G5000W-A Alpha/Beta Proportional Counter Standard One | 11/10/2021 |
| | Records | | Analysis Report | |
| 71124.05 | Calibration | | High Purity Germanium Detector #2 Efficiency Verification | 05/05/2020 |
| | Records | | Worksheet | |
| 71124.05 | Calibration | | High Purity Germanium Detector #1 Efficiency Verification | 05/14/2020 |
| | Records | | Worksheet | |
| 71124.05 | Calibration | | Tri-Carb 4910 liquid scintillation counter quench curve | 11/01/2020 |
| | Records | | | |
| 71124.05 | Calibration | | Fastscan Whole Body Counter, SN #13000002 | 06/02/2021 |
| | Records | | | |
| 71124.05 | Calibration | | Ludlum Model 9-3 Ion Chamber, CHP-DR-529 | 04/15/2021 |
| | Records | | | |
| 71124.05 | Calibration | | Eberline AMS-4, HP-RD-300 | 09/29/2020 |
| | Records | | | |
| 71124.05 | Calibration | WO-WF3- | Area Radiation Monitor, ARMIR5018 | 10/24/2020 |
| | Records | 52370443 | | |
| 71124.05 | Calibration | WO-WF3- | Containment High Range Radiation Monitor, ARMIR5400A | 01/29/2019 |
| | Records | 52780184 | | |
| 71124.05 | Calibration | WO-WF3- | Containment High Range Radiation Monitor, ARMIR5400B | 01/21/2019 |
| | Records | 52781284 | | |
| 71124.05 | Calibration | WO-WF3- | Fuel Handling Building Ventilation Area Isolation Radiation | 07/18/2019 |
| | Records | 52803287 | Monitor, ARMIR300.2 | |

| | | | | 1 |
|------------|-------------------|--------------|---|-------------|
| Inspection | Туре | Designation | Description or Title | Revision or |
| Procedure | | | | Date |
| 71124.05 | Calibration | WO-WF3- | Plant Vent Stack Safety Channel B Particulate and Gaseous | 01/19/2021 |
| | Records | 52878303 | Radiation Monitor, PRMIR0100.2 | |
| 71124.05 | Calibration | WO-WF3- | Purge Isolation Area Radiation Monitor, ARMIR5027 | 10/22/2020 |
| | Records | 52882477 | | |
| 71124.05 | Calibration | WO-WF3- | Containment High Range Radiation Monitor, ARMIR5400B | 10/19/2020 |
| | Records | 52882522 | | |
| 71124.05 | Calibration | WO-WF3- | Fuel Handling Building Ventilation Area Isolation Radiation | 01/11/2021 |
| | Records | 52891699 | Monitor, ARMIR0300.2 | |
| 71124.05 | Calibration | WO-WF3- | Purge Isolation Area Radiation Monitor, ARMIR5027 | 08/17/2021 |
| | Records | 52921908 | | |
| 71124.05 | Corrective Action | CR-WF3-YYYY- | 2019-07366, 2019-07469, 2019-08495, 2019-08554, | |
| | Documents | NNNN | 2019-08783, 2020-00881, 2020-01083, 2020-01533, | |
| | | | 2020-01879, 2020-03038, 2020-03063, 2020-04019, | |
| | | | 2020-04501, 2020-05171, 2020-05621, 2020-07298, | |
| | | | 2021-200377, 2021-00730, 2021-01249, 2021-01276, | |
| | | | 2021-01554, 2021-202644, 2021-02839, 2021-03832, | |
| | | | 2021-03858, 2021-03862, 2021-03864. 2021-03868, | |
| | | | 2021-04102, 2021-04484, 2021-05818, 2021-05472 | |
| 71124.05 | Corrective Action | CR-WF3-YYYY- | 2021-06490, 2021-06579, 2021-06593. 2021-06594 | |
| | Documents | NNNN | | |
| | Resulting from | | | |
| | Inspection | | | |
| 71124.05 | Miscellaneous | | Technical Requirements Manual | 168 |
| 71124.05 | Procedures | EN-CY-102 | Laboratory Analytical Quality Control | 16 |
| 71124.05 | Procedures | EN-DC-324 | Preventive Maintenance Program | 26 |
| 71124.05 | Procedures | EN-RP-317-10 | Calibration of Portable Dose Rate Instruments | 2 |
| 71124.05 | Procedures | EP-001-001 | Recognition and Classification of Emergency Conditions | 36 |
| 71124.05 | Procedures | MI-003-360 | Containment High Range Safety Channel A or B Area | 309 |
| | | | Radiation Monitor Calibration ARMIR5400 A or ARMIR5400 | |
| | | | В | |
| 71124.05 | Procedures | MI-003-368 | Fuel Handling Building Ventilation System Normal Effluent | 17 |
| | | | Exhaust A or B Particulate and Gaseous Radiation Monitor | |
| | | | Calibration PRMIR5107.A or PRMIR5107.B | |
| 71124.05 | Procedures | MI-003-371 | Fuel Handling Building Ventilation System Emergency | 311 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|--|----------------------|--|--------------------------------|
| Procedure | | | | Date |
| | | | Exhaust High Range Noble Gas Radiation Monitor Channel Calibration PRMIR3032 | |
| 71124.05 | Procedures | OP-901-401 | High Airborne Activity in Control Room | 304 |
| 71124.05 | Procedures | OP-901-402 | High Airborne Activity in Reactor Auxiliary Building | 5 |
| 71124.05 | Procedures | OP-901-404 | High Airborne Activity in FHB | 2 |
| 71124.05 | Procedures | UNT-007-029 | Control of the Radiation Monitor System Database | 4 |
| 71124.05 | Self-Assessments | LO-WLO-2021- 0012 | Pre-NRC Self-Assessment, IP71124.05 Radiation Monitoring Instrumentation | 07/21/2021 |
| 71124.08 | Corrective Action Documents | CR-XXX-YYYY- NNNN | HQN-2019-02856. HQN-2020-01535. HQN-2021-00340, WF3-2019-08685, WF3-2020-01725, WF3-2021-03727, WF3-2021-04701 | |
| 71124.08 | Corrective Action Documents Resulting from Inspection | CR-WF3-YYYY- NNNN | 2021-06456, 2021-06506, 2021-06530, 2021-06611 | |
| 71124.08 | Miscellaneous | | Low Level Radwaste Storage Building (LLRWSB) Recovery Plan - Hurricane Ida | 09/15/2021 |
| 71124.08 | Miscellaneous | | 2019-2021 Log of Radioactive Waste Shipments | 11/15/2021 |
| 71124.08 | Miscellaneous | 37-01 | Removal of Irradiated Components from the Old Steam Generator Storage Facility (OSGSF) | 0 |
| 71124.08 | Miscellaneous | EN-RP-121, Att. 5 | Radioactive Material Category 1 and 2 Accountability (Typical) | 10/25/2021 to 11/16/2021 |
| 71124.08 | Miscellaneous | W3F1-2020-0011 | Spent Fuel Storage Radioactive Effluent Release Report for 2019 | 02/13/2020 |
| 71124.08 | Miscellaneous | W3F1-2020-0026 | 2019 Annual Radioactive Effluent Release Report | 04/27/2020 |
| 71124.08 | Miscellaneous | W3F1-2021-0021 | Spent Fuel Storage Radioactive Effluent Release Report for 2020 | 03/04/2021 |
| 71124.08 | Miscellaneous | W3F1-2021-0037 | 2020 Annual Radioactive Effluent Release Report | 04/29/2021 |
| 71124.08 | Procedures | EN-RP-121 | Radioactive Material Control | 17 |
| 71124.08 | Procedures | EN-RP-143 | Source Control | 14 |
| 71124.08 | Procedures | EN-RW-101 | Radioactive Waste Management | 3 |
| 71124.08 | Procedures | EN-RW-102 | Radioactive Shipping Procedure | 18 |
| 71124.08 | Procedures | EN-RW-102 | Radioactive Shipping Procedure | 19 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|----------------------|-------------------------------|---|-------------|
| Procedure | | | | Date |
| 71124.08 | Procedures | EN-RW-105 | Process Control Program | 5 |
| 71124.08 | Procedures | EN-RW-106 | Integrated Transportation Security Plan | 7 |
| 71124.08 | Procedures | Waterford-3 Plan/NEI 14-04 | Waterford-3 Part 37 Security Plan for the Protection of Category 1 and Category 2 Quantities of Radioactive Material | 1 |
| 71124.08 | Radiation Surveys | | Storage Survey for FHB +46 Fuel Handling Area | 11/16/2021 |
| 71124.08 | Radiation Surveys | WF3-2108-00028 | OCA Radioactive Material Storage Areas | 08/04/2021 |
| 71124.08 | Radiation Surveys | WF3-2110-00109 | OCA +15 Radwaste Compactor Building | 10/12/2021 |
| 71124.08 | Radiation Surveys | WF3-2110-00216 | Radwaste Solidification Building | 10/28/2021 |
| 71124.08 | Radiation Surveys | WF3-2111-00039 | OCA - LLRWSB +15 | 11/04/2021 |
| 71124.08 | Self-Assessments | LO-WLO-2021- 00049 | 10 CFR Part 37 Program Assessment | 07/13/2021 |
| 71124.08 | Self-Assessments | LO-WLO-2021- 0012 | Pre-NRC Self Assessment: IP71124.08 Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation | 03/30/2020 |
| 71124.08 | Shipping Records | 19-1030 | UN2916, Radioactive Material, Type B(U) package, Class 7 | 11/21/2019 |
| 71124.08 | Shipping Records | 20-1005 | UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7, RQ-Radionuclides | 04/16/2020 |
| 71124.08 | Shipping Records | 20-1010 | UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7, RQ-Radionuclides | 09/03/2020 |
| 71124.08 | Shipping Records | 21-1001 | UN2912, Radioactive Material, Low Specific Activity (LSA-I), Class 7 | 01/19/2021 |
| 71124.08 | Shipping Records | 21-1003 | UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7 | 02/03/2021 |
| 71124.08 | Shipping Records | 21-1007 | UN2916, Radioactive Material, Type B(U) package, Class 7, Fissile-Excepted, RQ-Radionuclides | 05/10/2021 |
| 71124.08 | Shipping Records | 21-1010 | UN3321, Radioactive Material, Low Specific Activity (LSA-II), Class 7 | 05/13/2021 |
| 71124.08 | Shipping Records | 21-3041 | UN2908, Radioactive Material, Excepted Package - Empty | 11/18/2021 |

| Inspection | Туре | Designation | Description or Title | Revision or |
|------------|-------------------|-------------------|--|-------------|
| Procedure | | | | Date |
| | | | Packaging, Class 7 | |
| 71124.08 | Work Orders | WO 52954702-01 | Sealed Source Leak Test | 07/15/2021 |
| 71151 | Corrective Action | CR-WF3-YYYY- | 2020-04507, 2020-06251, 2021-00040, 2021-00062, | |
| | Documents | NNNN | 2021-00115, 2021-04678, 2021-04976, 2021-05167 | |
| 71151 | Miscellaneous | | WF3 DEP PI Evaluation Packages for Opportunities | 4Q/2020 - |
| | | | evaluated 11/11/2020 through 08/29/2021 | 3Q/2021 |
| 71151 | Miscellaneous | | Scenario Package: 2020-02-Emergency Communicator | 2Q/2020 |
| 71151 | Miscellaneous | | ERO Participation PI Data Packages - ERO Rosters and | 4Q/2020 - |
| | | | Qualification Records | 3Q/2021 |
| 71151 | Miscellaneous | EPP-424, Att. 7.3 | ANS Siren Testing Record Packages | 4Q/2020 - |
| | | | | 3Q/2021 |
| 71151 | Miscellaneous | Scenario No. | EOF Offsite Communicator PI Session | 02/24/2021 |
| | | 2021-02 | | |
| 71151 | Miscellaneous | WSXM-LOR- | Simulator Exercise Guide: 2020 Cycle 6 EP DEP Evaluation | 09/17/2020 |
| | | 206DEPSIM | | |
| 71151 | Procedures | EN-FAP-EP-005 | Emergency Preparedness Performance Indicators | 15 |
| 71151 | Procedures | EPP-002-010 | Notifications and Communications | 316 |
| 71151 | Procedures | EPP-424 | Siren Testing and Siren System Administrative Controls | 20 |
| 71152 | Corrective Action | CR-WF3-2020- | Steam leak developed from a drain line | 12/11/2020 |
| | Documents | 7058 | | |
| 71152 | Corrective Action | CR-WF3-YYYY- | 2019-1877, 2019-4813, 2019-8826, 2020-2697, 2020-2700, | |
| | Documents | NNNN | 2020-7243, 2020-7303, 2021-6909 | |
| 71152 | Procedures | EN-OE-100 | Operating Experience Program | 20 |
| 71152 | Procedures | OP-903-007 | Turbine Inlet Valve Cycling Test | 19 and 20 |

WATERFORD STEAM ELECTRIC STATION, UNIT 3 – INTEGRATED INSPECTION REPORT 05000382 /2021004 AND EXERCISE OF ENFORCEMENT DISCRETION DATE February 8, 2022

DISTRIBUTION: RStuart, R-IV/DRP

| OFFICE | R-IV/DRS/RCB | | R-IV/DRP/RPB | | R-IV/DRP/RPB-D /WAT-3 | | R-IV/DNMS/MLDE | 3 |
|--------|------------------------|----|------------------------|----|--------------------------|----|------------------------|----|
| NAME | MHaire | ΜН | AChilds | AC | FRamirez | FR | HGepford | HG |
| DATE | Feb 3, 2022 | | Feb 3, 2022 | | Feb 7, 2022 | | Feb 3, 2022 | |
| OFFICE | R-II/DRP/RPB4 /HARO | | R-IV/ACES | | R-IV/DRS/EB1 | | R-IV/DRP/RPB-C /CNS | |
| NAME | APatz | AP | JGroom | JG | VGaddy | VG | ASiwy | AS |
| DATE | Feb 3, 2022 | | Feb 4, 2022 | | Feb 3, 2022 | | Feb 3, 2022 | |
| OFFICE | NRR/DRA | | R-IV/DRP/RPB-A /STP | | R-IV/DRS/IPAT | | | |
| NAME | JEvans | JE | ASanchez | AS | AAgrawal | AA | | |
| DATE | Feb 4, 2022 | | Feb 8, 2022 | | Feb 8, 2022 | | | |

OFFICIAL RECORD COPY