



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

February 17, 2021

Mr. G. T. Powell  
President and CEO  
STP Nuclear Operating Company  
P.O. Box 289  
Wadsworth, TX 77483

SUBJECT: SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION,  
UNITS 1 AND 2 – REISSUED INTEGRATED INSPECTION REPORT  
5000498/2020003 AND 05000499/2020003

Dear Mr. Powell:

On September 30, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at South Texas Project Electric Generating Station, Units 1 and 2. The results of this inspection were originally issued in a report, dated October 27, 2019 (Agencywide Document Access and Management System (ADAMS) Accession No. ML20300A591).

The NRC staff subsequently identified inspection activities that were incorrectly listed and reissued the report on January 15, 2021 (Accession No. ML21014A441). Subsequent to the reissued report, NRC staff identified that the item tracking numbers for the two items listed in the report require correction. This reissued inspection report corrects the tracking number error and is enclosed. This change has no impact on the findings documented in this report, but consistent with NRC processes, this report is being reissued in whole.

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,

Jeffrey E. Josey, Chief  
Reactor Projects Branch A  
Division of Reactor Projects

Docket Nos. 05000498 and 05000499  
License Nos. NPF-76 and NPF-80

Enclosure:

G. Powell

2

As stated

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SOUTH TEXAS PROJECT ELECTRIC GENERATING STATION, UNITS 1 AND 2 – REVISED  
 INTEGRATED INSPECTION REPORT 05000498/2020003 AND 05000499/2020003 – DATED  
 FEBRUARY 17, 2021

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

Docket Numbers: 05000498 and 05000499

License Numbers: NPF-76 and NPF-80

Report Numbers: 05000498/2020003 and 05000499/2020003

Enterprise Identifier: I-2020-003-0012

Licensee: STP Nuclear Operating Company

Facility: South Texas Project Electric Generating Station, Units 1 and 2

Location: Wadsworth, TX 77483

Inspection Dates: July 1, 2020 to September 30, 2020

Inspectors: D. Antonangeli, Health Physicist  
M. Chambers, Physical Security Inspector  
G. George, Senior Reactor Inspector  
G. Kolcum, Senior Resident Inspector  
J. O'Donnell, Senior Health Physicist  
D. Reinert, Reactor Inspector  
A. Sanchez, Senior Project Engineer  
E. Simpson, Health Physicist  
C. Stott, Resident Inspector

Approved By: Jeffrey E. Josey, Chief  
Reactor Projects Branch A  
Division of Reactor Projects

Enclosure

## SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee’s performance by conducting an integrated inspection at South Texas Project Electric Generating Station, Units 1 and 2, 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

Failure to Remove Plastic Shipping Plug During Auxiliary Feedwater Governor Installation			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000498/2020003-02 Open/Closed	[H.7] - Documentation	71152
A self-revealed non-cited violation (NCV) of Technical Specification 6.8.1.a was identified when the licensee failed to provide an adequate maintenance procedure to check for and remove all vendor installed shipping plugs from the Unit 1 turbine-driven auxiliary feedwater (AFW) pump governor before installation in the plant.			

### Additional Tracking Items

Type	Issue Number	Title	Report Section	Status
URI	05000498,05000499/2020003-01	Part 37 URI	71124.08	Open

## PLANT STATUS

Unit 1 began the inspection period at rated thermal power. On August 7, 2020, the unit commenced a load reduction following the trip of the low pressure heater drain pump 11 and isolation of the feedwater heaters 15A/16A due to a level switch failure. Reactor power was reduced to 93.5 percent. Unit 1 returned to 100 percent power on August 8, 2020. On August 16, 2020, Unit 1 reduced power to 95.7 percent due to a main generator gas temperature alarm. Unit 1 was returned to 100 percent power later on August 16, 2020.

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

## INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors 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.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the coronavirus (COVID-19), resident and regional inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time the resident inspectors performed periodic site visits each week, increasing the amount of time on site as local COVID-19 conditions permitted. As part of their onsite activities, resident inspectors conducted plant status activities as described in IMC 2515, Appendix D; observed risk significant activities; and completed on site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or portion of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on site. The inspections documented below met the objectives and requirements for completion of the IP.

## REACTOR SAFETY

### 71111.01 - Adverse Weather Protection

#### Impending Severe Weather Sample (IP Section 03.02) (4 Samples)

- (1) The inspectors evaluated readiness for potential impending adverse weather conditions for Hurricane Hanna during the week of July 20, 2020.
- (2) The inspectors evaluated response to increased closed loop cooling temperatures of Units 1 and 2, due to high reservoir temperatures combined with heat exchanger fouling during the week of August 9, 2020.
- (3) The inspectors evaluated response to Hurricanes Laura and Marco during the week of August 24, 2020.
- (4) The inspectors evaluated response to Tropical Storm Beta during the week of September 20, 2020.

#### 71111.04 - Equipment Alignment

##### Partial Walkdown Sample (IP Section 03.01) (4 Samples)

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

- (1) Unit 1, train D auxiliary feedwater pump following system restoration after maintenance on August 5, 2020
- (2) Unit 1, safety injection accumulators' configuration during the week of August 30, 2020
- (3) Unit 2, essential cooling water system during the week of August 30, 2020
- (4) Unit 2, train D auxiliary feedwater pump on September 10, 2020

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

- (1) The inspectors evaluated system configurations during a complete walkdown of the Units 1 and 2, auxiliary feedwater during the week of September 20, 2020.

#### 71111.05 - Fire Protection

##### Fire Area Walkdown and Inspection Sample (IP Section 03.01) (8 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 1, train D auxiliary feedwater pump room and penetration area, Fire Area 51 on August 3, 2020
- (2) Auxiliary fuel oil storage tank, Fire Area 99 during the week of August 3, 2020
- (3) Unit 2, mechanical auxiliary building roof, Fire Area 79 on August 21, 2020
- (4) Unit 1, electrical auxiliary building, Fire Area 76 on August 24, 2020
- (5) Fire pump house, Fire Area 59 on August 26, 2020
- (6) Unit 1, train A essential cooling water intake structure pump room, Fire Area 53 on August 27, 2020
- (7) Unit 1, train B essential cooling water intake structure pump room, Fire Area 54 on August 27, 2020
- (8) Unit 1, train C essential cooling water intake structure pump room, Fire Area 55 on August 27, 2020

#### 71111.06 - Flood Protection Measures

##### Inspection Activities - Internal Flooding (IP Section 03.01) (2 Samples)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) Unit 1, auxiliary feedwater pump rooms
- (2) Unit 2, auxiliary feedwater pump rooms

Cable Degradation (IP Section 03.02) (1 Sample)

The inspectors evaluated cable submergence protection in:

- (1) Unit 1, train A manhole AOXYABKEM53 on July 15, 2020  
Unit 1, train B manhole BOXYABKEM52 on September 15, 2020  
Unit 2, train B manhole BOXYAKKEM54 on September 22, 2020

71111.07T - Heat Sink Performance

Triennial Review (IP Section 03.02) (4 Samples)

- (1) Unit 1, train A essential cooling water intake structure ventilation
- (2) Unit 1, train B main steam isolation cubicle ventilation
- (3) Unit 2, component cooling water heat exchanger 2B
- (4) Unit 2, residual heat removal heat exchanger 2B

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 main control room during auxiliary feedwater turbine governor operation on August 6, 2020.

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

- (1) The inspectors observed and evaluated an operations crew's response to a degraded condition that resulted in fuel damage and led to a general emergency on August 18, 2020.

71111.12 - Maintenance Effectiveness

Maintenance Effectiveness (IP Section 03.01) (4 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 1, train B emergency diesel generator that failed to enter the 5-minute post run cooldown during the week of August 17, 2020
- (2) Diesel fire pump 3 during the week of July 20, 2020
- (3) Unit 1, train A safety injection accumulator level during the week of August 30, 2020
- (4) Units 1 and 2, 125vdc battery cable replacements due to excessive bend radius on September 2, 2020

Quality Control (IP Section 03.02) (1 Sample)

The inspectors evaluated the effectiveness of maintenance and quality control activities to ensure the following SSC remains capable of performing its intended function:



- (1) Unit 1, train D auxiliary feedwater pump speed drift on July 9, 2020

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

##### Risk Assessment and Management Sample (IP Section 03.01) (7 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) Unit 2, train C 125vdc battery cable maintenance that resulted in the planned entry into the configuration risk management program on August 4, 2020
- (2) Unit 1, train D 125vdc battery cable maintenance that resulted in the planned entry into the configuration risk management program on August 5, 2020
- (3) Unit 2, train D 125vdc battery cable maintenance that resulted in the planned entry into the configuration risk management program on August 13, 2020
- (4) Unit 1, train B 125vdc battery cable maintenance that resulted in the planned entry into the configuration risk management program on August 19, 2020
- (5) Units 1 and 2, auxiliary feedwater system during the week of September 8, 2020
- (6) Unit 2, train A yellow risk during the week of September 14, 2020
- (7) Unit 2, train B 125vdc battery and inverter maintenance that resulted in the planned entry into the configuration risk management program on September 23, 2020

#### 71111.15 - Operability Determinations and Functionality Assessments

##### Operability Determination or Functionality Assessment (IP Section 03.01) (9 Samples)

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

- (1) Unit 1, train D auxiliary feedwater pump speed drift on July 9, 2020
- (2) Unit 1, train B essential chiller was found with an outlet temperature hunting on July 17, 2020
- (3) Unit 1, train A power operated relief valve that was found leaking on August 1, 2020
- (4) Unit 2, auxiliary airlock inner reactor containment building side door with corrosion found near the door seals on August 3, 2020
- (5) Unit 2, train B essential cooling water pump motor due to low oil level found in the sight-glass on August 24, 2020
- (6) Unit 1, train A safety injection accumulator level on August 30, 2020
- (7) Unit 2, train A essential chilled water pump bearing oil levels during the week of September 14, 2020
- (8) Unit 2, quality display processing system link status on September 23, 2020
- (9) Unit 1, train D auxiliary feedwater pump trip and throttle valve leak by on September 30, 2020

### 71111.18 - Plant Modifications

#### Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (2 Samples)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Unit 1, train D auxiliary feedwater pump permanent modification of mechanical overspeed connecting rod with additional threads due to previous failure to latch on April 5, 2020
- (2) Temporary modification and restoration for the auxiliary fuel oil storage tank during the week of August 3, 2020

### 71111.19 - Post-Maintenance Testing

#### Post-Maintenance Test Sample (IP Section 03.01) (9 Samples)

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

- (1) Diesel fire pump 1 during the week of July 1, 2020
- (2) Unit 1, train D auxiliary feedwater pump following discovery of plugged governor valve bellows on July 9, 2020
- (3) Unit 2, train B emergency diesel generator following preventive maintenance performed on the lube oil circulation pump and the standby lube oil pump on July 28, 2020
- (4) Unit 1, train D auxiliary feedwater pump following maintenance on August 3, 2020
- (5) Unit 2, train C 125vdc batteries following cable replacement on August 4, 2020
- (6) Unit 1, train D 125vdc batteries following cable replacement on August 5, 2020
- (7) Unit 1, train B emergency diesel generator following fuel oil circuitry repair on August 17, 2020
- (8) FLEX diesel generator 11 following maintenance on August 18, 2020
- (9) Diesel fire pump 3 during the week of August 20, 2020

### 71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

#### Surveillance Tests (other) (IP Section 03.01) (5 Samples)

- (1) Unit 2, train D auxiliary feedwater pump on June 18, 2020,
- (2) Unit 1, power range neutron flux channel IV actuating channel operational test on July 7, 2020
- (3) Unit 1, train D auxiliary feedwater pump on August 6, 2020
- (4) Unit 1, train D auxiliary feedwater pump on September 3, 2020
- (5) Unit 2, train D auxiliary feedwater pump on September 10, 2020

#### RCS Leakage Detection Testing (IP Section 03.01) (1 Sample)

- (1) Unit 1, unidentified leakage on June 18, 2020

FLEX Testing (IP Section 03.02) (1 Sample)

- (1) FLEX diesel generator 22 run on August 27, 2020

71114.06 - Drill Evaluation

Drill/Training Evolution Observation (IP Section 03.02) (2 Samples)

The inspectors evaluated:

- (1) The inspectors evaluated the licensee's simulator-based licensed operator requalification training evolution that involved a faulted steam generator, loss of reactor coolant accident, and a leak outside of containment on August 19, 2020.
- (2) The inspectors evaluated the licensee's simulator-based licensed operator requalification training evolution that involved a reactor coolant leak, loss of an emergency bus, and a loss of reactor coolant accident, on September 22, 2020.

71124.05 - Radiation Monitoring Instrumentation

Walkdowns and Observations (IP Section 03.01) (10 Samples)

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

- (1) Personnel contamination monitoring equipment at the Unit-1 41' access control location: 3 ARGOS-5AB units.
- (2) Personnel monitoring equipment at the Unit-1 41' access control location: 2 GEM-5 units.
- (3) Small article monitoring equipment at the Unit-1 41' access control location: 4 SAM-12 units.
- (4) Plant process radiation monitor: Unit 1 Steam Generator Blowdown Detector, 1-RA-RE-8043.
- (5) Plant process radiation monitor: Unit 2 Component Cooling Water Transmitter, 2-RA-RT-8040.
- (6) Plant process radiation monitor: Unit 2 Safety Injection Train-A Cubicle Indicator, 2-RA-RI-8084.
- (7) Radiation monitoring equipment: HP-400-00012-010, Ludlum Model 177 count-rate meter.
- (8) Radiation monitoring equipment: HP-400-00097-005, Eberline RO-20 ion chamber.
- (9) Radiation monitoring equipment: HP-400-00147-001, Ludlum Model 78 Stretch Scope.
- (10) Radiation monitoring equipment: HP-400-00045-002, Ludlum Model 12-4 (neutron) survey meter.

Calibration and Testing Program (IP Section 03.02) (11 Samples)

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

- (1) Ludlum Model 177, HP-400-00012-006, November 4, 2019
- (2) Ludlum Model 3, HP-400-00031-059, February 26, 2020

- (3) Ludlum Model 9-3, HP-400-00163-040, March 24, 2020
- (4) Canberra GEM-5, HP-155-00003-001, September 3, 2020
- (5) Canberra Argos-5AB, HP-155-00004-005, December 4, 2019
- (6) Eberline EBR-PCM-1C, HP-155-00105-011, February 5, 2020
- (7) Eberline AMS-4 Particulate Monitor, HP-400-00099-002, May 13, 2020
- (8) Unit 1, Turbine Generator Drain Monitor, 1-RA-RT-8041, November 15, 2019
- (9) Unit 2, Condensate Polishing Area Radiation Transmitter, 2-RA-RT-8093, April 30, 2020
- (10) Unit 1 Steam Generator Blowdown Radiation Transmitter, 1-RA-RT-8043, September 23, 2019
- (11) Unit 1, Containment High Range Area Monitor, 1-RA-RT-8050, April 8-9, 20020

Effluent Monitoring Calibration and Testing Program Sample (IP Sample 03.03) (3 Samples)

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

- (1) WAN 569357, Unit 2 Vent Particulate and Iodine Effluent Monitor, 2-RA-RT-8010A, April 27, 2010
- (2) WAN 554121, Unit 2 Vent Wide Range Gas Monitor, 2-RA-RT-8010B, January 20, 2020
- (3) WAN 573449, Unit 1 Liquid Waste Processing System Monitor, 1-RA-RT-8038, June 24, 2020

71124.08 - Radioactive Solid Waste Processing & Radioactive Material Handling, Storage, & Transportation

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

Inspectors evaluated the licensee's performance during walk-downs in the Unit-1 Auxiliary Building, Warehouse- 44, Metrology Building, and the Unit-2 Yard for controlling, labelling and securing of selected radioactive materials:

- (1) Onsite storage containers 1, 23, and 36 in the Unit-2 yard
- (2) Sealand containers 529689-1 and 204TLU inside warehouse-44
- (3) Decon Jo-boxes 1 and 2 on the 60' walkway of the Unit-1 auxiliary building

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

Inspectors walked down in the Unit 1 Auxiliary Building accessible portions of the solid radioactive waste systems and evaluated system configuration and functionality for the following systems:

- (1) Spent resin transfer system
- (2) Floor drain system

### Waste Characterization and Classification (IP Section 03.03) (2 Samples)

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

- (1) Dry active waste common 2019
- (2) Unit 2, high activity spent resin 2019

### Shipment Preparation (IP Section 03.04)

The inspectors were unable to observe preparation of a shipment containing radioactive material according to requirements.

### Shipping Records (IP Section 03.05) (3 Samples)

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

- (1) STP-1-19-015, Type B dewatered bead resin
- (2) STP-2-18-058, LSA -II dewatered bead resin
- (3) STP-1-20-013, Type B dewatered bead resin

## **OTHER ACTIVITIES – BASELINE**

### 71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

#### MS06: Emergency AC Power Systems (IP Section 02.05) (2 Samples)

- (1) Unit 1, July 1, 2019, through June 30, 2020
- (2) Unit 2, July 1, 2019, through June 30, 2020

#### MS07: High Pressure Injection Systems (IP Section 02.06) (2 Samples)

- (1) Unit 1, July 1, 2019, through June 30, 2020
- (2) Unit 2, July 1, 2019, through June 30, 2020

#### MS08: Heat Removal Systems (IP Section 02.07) (2 Samples)

- (1) Unit 1, July 1, 2019, through June 30, 2020
- (2) Unit 2, July 1, 2019, through June 30, 2020

### 71152 - Problem Identification and Resolution

#### Annual Follow-up of Selected Issues (IP Section 02.03) (3 Samples)

- (1) Unit 1, train B emergency diesel generator, Condition Report CR-20-5447
- (2) Unit 1, unidentified leakage on June 18, 2020
- (3) Unit 1, train D auxiliary feedwater pump speed drift on July 9, 2020

## INSPECTION RESULTS

Unresolved Item (Open)	Part 37 URI URI 05000498,05000499/2020003-01	71124.08
<p><u>Description:</u> The inspectors, while conducting a public radiation safety baseline inspection, identified several issues of concern regarding the implementation of 10 CFR Part 37 requirements during their review of the controls for a Category 2 radioactive source. The inspection was conducted the week of September 14, 2020, using IP 71124.08 "Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation." The inspectors informed the licensee of the issues of concern regarding the implementation of the 10 CFR Part 37 requirements, specifically associated with 10 CFR 37.23, 37.43, and 37.49.</p> <p>These issues of concern regarding the implementation of 10 CFR Part 37 for the control of the Category 2 radioactive source observed require additional information and review to determine whether the licensee performance constituted violations of NRC requirements. Consequently, we are considering this matter as an unresolved item (URI).</p> <p>Planned Closure Actions: The inspectors plan to continue their review of documentation provided by the licensee, as it is made available. This review will be a comprehensive assessment of all associated violations and/or findings related to these potential issues identified.</p> <p>Licensee Actions: The licensee placed this matter into their corrective action program for review and implementation of corrective actions. The licensee used the corrective action program to document their corrective actions already taken and planned. The licensee has already addressed perceived gaps the inspectors identified in the implementation of 10 CFR Part 37 requirements.</p> <p>Corrective Action References: Condition Report CR 2020-9835</p>		

Failure to Remove Plastic Shipping Plug During Auxiliary Feedwater Governor Installation			
Cornerstone	Significance	Cross-Cutting Aspect	Report Section
Mitigating Systems	Green NCV 05000498/2020003-02 Open/Closed	[H.7] - Documentation	71152
<p>A self-revealed non-cited violation (NCV) of Technical Specification 6.8.1.a was identified when the licensee failed to provide an adequate maintenance procedure to check for and remove all vendor installed shipping plugs from the Unit 1 turbine-driven auxiliary feedwater (AFW) pump governor before installation in the plant.</p> <p><u>Description:</u> On July 9, 2020, the licensee declared the turbine-driven AFW pump 14 inoperable due to a condition where the pump drifted to slower speeds as the pump was running. Later that same day, the licensee found a vendor plug installed inside the fitting on the pneumatic speed control tubing connection on the governor. The licensee believes the plug was vendor installed and in place until discovery on July 9, 2020. The plug was removed, and a post-maintenance test showed that the turbine-driven AFW pump performed satisfactorily. The pump was then declared operable at 0220 on July 10, 2020.</p>			

The governor for AFW pump 14 had been replaced in the spring of 2020 during refueling outage 1RE22. It was tested on April 17, 2020 and put into service. During the test, the pump's speed lowered several rpms. This speed control issue was noted during that initial test but not enough to declare the pump inoperable.

With the plug installed in the turbine-driven AFW governor, air was trapped inside a bellows that could be used for pneumatic speed control. The licensee does not use this pneumatic speed control feature, opting instead for the manual speed setting knob for their speed setpoint control. This setup requires that the bellows for pneumatic speed control be free to pass air as the system runs so the manual speed control knob can properly set the speed vice pneumatic control.

With the bellows plugged, the temperature of the trapped air in the bellows rose which caused increasing air pressure the longer the pump ran. This caused the bellows to depress the speed setting plunger which reduced oil flow to the speed setting piston. This, in turn, changed the spring tension and set a new operating point for the spinning flyweight.

When the licensee found and subsequently removed the plug, they were again able to control the turbine-driven AFW pump with the manual speed setting knob and keep the pump within its normal operating band for speed.

The inspectors reviewed procedure 0PMP04-AF-0002, "Auxiliary Feedwater Pump Turbine and Governor Valve Maintenance," Revision 43. The inspectors determined that there was no step in the procedure to remove the vendor plug.

Corrective Actions: The licensee removed the vendor plug from the governor bellows and completed surveillance testing to ensure the governor could maintain pump speed as required. The licensee also found testing documentation from the vendor that shows while the governor with the plug installed would cause the turbine-driven AFW pump to slow down, the pump could still perform its safety function for all accident scenarios.

Corrective Action References: Condition Report CR 2020-7429

Performance Assessment:

Performance Deficiency: The failure to provide adequate procedures for maintenance on safety-related equipment was a performance deficiency. Specifically, the licensee failed to provide an adequate maintenance procedure to check for and remove all vendor installed shipping plugs from the Unit 1 turbine-driven AFW pump governor before installation in the plant.

Screening: The inspectors determined the performance deficiency was more than minor because it was associated with the Procedure Quality attribute of the Mitigating Systems cornerstone and adversely affected the cornerstone objective to ensure the availability, reliability, and capability of systems that respond to initiating events to prevent undesirable consequences. Specifically, the plug installed on the turbine-driven AFW governor put the safety-related pump into a degraded condition which limited its speed to a slower speed than required by licensee acceptance criteria. The licensee had to perform calculations using data from previous vendor test reports that the pump was still operable.

Significance: The inspectors assessed the significance of the finding using Appendix A, "The Significance Determination Process (SDP) for Findings At-Power." Specifically, the

turbine -driven AFW pump was able to maintain its operability and therefore screened as Green.

Cross-Cutting Aspect: H.7 - Documentation: The organization creates and maintains complete, accurate and up-to-date documentation. The inspectors determined that the finding had a crosscutting aspect in the area of documentation. Specifically, the licensee could have incorporated warnings that were in the operations procedure since 1995 into maintenance procedures on the turbine-driven AFW pump governor to ensure the control air port was not blocked prior to installation. [H.7].

Enforcement:

Violation: Technical Specification 6.8.1.a requires, in part, that written procedures shall be established, implemented, and maintained in accordance with Appendix A of Regulatory Guide 1.33, Revision 2, February 1978, Section 9.a, maintenance that can affect the performance of safety-related equipment should be properly pre-planned. The licensee established procedure 0PMP04-AF-0002, "Auxiliary Feedwater Pump Turbine and Governor Valve Maintenance," Revision 43, to meet Regulatory Guide 1.33 requirement.

Contrary to the above, from 1995 to July 9, 2020, the licensee failed to properly pre-plan maintenance that can affect the performance of safety-related equipment. Specifically, procedure 0PMP-AF-0002 fails to include procedures that ensures the replacement turbine- -driven AFW pump governor is free of all vendor installed plugs and is ready to install in the plant.

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

## **EXIT MEETINGS AND DEBRIEFS**

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

- On July 23, 2020, the inspectors presented the triennial heat sink performance inspection results to Mr. J. Connolly and other members of the licensee staff.
- On September 21, 2020, the inspectors presented the radiation safety inspection results to Mr. G. Powell and other members of the licensee staff.
- On October 8, 2020, the inspectors presented the integrated inspection results to Mr. J. Connolly and other members of the licensee staff.



**DOCUMENTS REVIEWED**

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71111.01	Procedures	0PGP03-ZV-0001	Severe Weather Plan	22	
		0PGP03-ZV-0002	Hurricane Plan	10	
		0POP02-AF-0001	Auxiliary Feedwater	54	
		ZV-0029	Site Preparation for Tropical Storm or Hurricane	3	
71111.04	Miscellaneous	5S-14-9-Z-40131	Motor Driven AFW Pump		
		5S-14-9-Z-40132	AFW Turbine Steam Inlet Valve		
		5S-14-9-Z-40134	AFW Crossover Valves		
		5S-14-9-Z-40135	AFW Pump No. 14(24) Turbine Trip and Throttle Valve		
		5S-14-9-Z-40136	AFW Turbine Pump Isolation Valve		
		5S-14-9-Z-40139	AFW Pump 14 (24) Turbine Trip Solenoid		
		5S139F00063	Feedwater		
		5S141(2)F00024, Sheets 1 & 2	Auxiliary Feedwater		
		5S141(2)F22547	Turbine Driven AFW Pump Lube Oil System		
		5S149MB1016,	Auxiliary Feedwater		
		5S199F00020	Condensate Storage		
		5V-14-9-Z-41634	Main Stm. Iso. Valve Cubicle Vent Fans		
		Procedures	0POP02-AF-0001	Auxiliary Feedwater	54
			0IVC51-FP-0400	Fire Preplan Isolation Valve Cubicle, Pump Room Train D	2
	0IVC51-FP-0409		Fire Preplan Isolation Valve Cubicle Penetration Area, Train D	4	
	0PEP07-AF-0001		Auxiliary Feedwater Turbine Overspeed Trip Test		
	0PMP08-ZI-0025		Pneumatic/Spring Control Valve or Damper Calibration		
	0POP02-AF-0002		Resetting Auxiliary Feedwater Pump 14(24) Mechanical Overspeed Trip Device		
	0POP02-CD-0001		Condensate System		
	0POP02-SB-0002		Steam Generator Wet Layup Recirc		
	0PSP03-AF-0007	Auxiliary Feedwater Pump 14(24) Inservice Test			

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		0PSP03-XC-0001	Refueling Containment Penetration Status	
		0PSP05-FW-0501	Steam Generator Wide Range Level Calibration	
71111.05	Procedures	0AFO99-FP-0903	Fire Preplan Auxiliary Fuel Oil Storage Tank	4
		0EAB76-FP-0017	Unit 1 Electrical Auxiliary Building, Fire Area 76	3
		0FPH59-FP-0800	Fire Pump House, Fire Area 59	2
		0IVC51-FP-0400	Fire Preplan Isolation Valve Cubicle, Pump Room Train D	2
		0IVC51-FP-0409	Fire Preplan Isolation Valve Cubicle Penetration Area, Train D	4
		0MAB79-FP-0162	Unit 2 Mechanical Auxiliary Building Roof, Fire Area 79	1
		1ECW53-FP-0600	Unit 1 Essential Cooling Water Intake Structure Pump Room Train A, Fire Area 53	5
		1ECW54-FP-0601	Unit 1 Essential Cooling Water Intake Structure Pump Room Train B, Fire Area 54	5
		1ECW55-FP-0602	Unit 1 Essential Cooling Water Intake Structure Pump Room Train C, Fire Area 55	5
71111.06	Corrective Action Documents	CR-YYYY-NNNN	2020-2479	
	Procedures	0PGP03-ZE-0044	Penetration Seals	
		0PGP03-ZA-0090	Work Process Program	
		0PGP03-ZA-0514	Controlled System or Barrier Impairment	
		0PGP03-ZI-0007	Confined Space Entry Program	
		0PGP03-ZI-0021	Electrical Safety	
		5E100E2100	General Arrangement Station Underground Duct Banks	
Work Orders	Work Authorization Number	604560, 593968, 593969		
71111.07T	Calculations	5V159Z41674	ECW Pump Cub. HVAC Ventilation Fan Logic Diagram System: HZ	8
		EC05100	Standby Diesel Generator Transient Response Model	0
		MC-5185	Essential Cooling Water Intake Structure (ECWIS) Pressure Drop	0
		MC-5430	ECWIS Cooling and Heating Loads	2
		MC-6084	Component Cooling Water Heat Exchanger Tube Plugging	01/24/1994

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		MC-6096	Component Cooling Water Heat Exchanger Fouling	0
		MC-6219	Generic Letter 89-013	2
		MC-6498	Essential Cooling Pond Thermal Performance Analysis	0
		MC05047	Component Cooling Water System Heat Loads and Flows Following a LOCA	3
		MC05181	System Pressure Drop	3
		MC05479	Component Cooling Water System Heat Loads and Flows for Normal Plant Cooling	3
		MC05908	Instrument Set Points - Component Cooling Water System	05/25/1999
		MC06426	IVC/AFW Cooling Load and Room Heat-Up	0
		ZC07020	Area Room Temperature Switches Instrument Uncertainty and Setpoint Determination	5
	Corrective Action Documents	CR-YYYY-NNNN	2018-2162, 2018-2921, 2019-1053, 2019-13222	
	Corrective Action Documents Resulting from Inspection	CR-YYYY-NNNN	2020-7775, 2020-7820, 2020-7872	
	Drawings	00009 EOHC01#1	1VC AFW Pump Cubicle HVAC Supply Fans FN001, FNO02, & FN003	12
		5R169F20000	Piping and Instrumentation Diagram Residual Heat Removal System	28
		5V159V00027	Piping & Instrumentation Diagram HVAC Miscellaneous Buildings Essential Cooling Water Intake Structure & Electrical Equipment RM - CWIS	12
		5V159Z41674	ECW Pump Cub. HVAC Ventilation Fan Logic Diagram System: HZ	8
		5V159Z41675	ECW Pump Cub. HVAC Vent Fans Intake & Exh. Dampers Logic Diagram System: HZ	7
		9-E-HZ01-01	Elementary Diagram ECW HVAC Pump BLDG Vent Fans FN001, FN003, & FN005	10
		9-E-HZ02-01	Elementary Diagram, ECW HVAC Pump BLDG Vent Fans FN002, FN004, & FN006	9

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
		9-E-HZ03-01	Elementary Diagram ECW HVAC Intake & Exhaust Air Dampers, FV-9894, 9895, 9896, 9894A, 9895A, & 9896A	4	
		9-E-HZ03-01	Elementary Diagram, ECW HVAC Intake & Exhaust Air Dampers FV-9894, 9895, 9896, 9894A, 9895A, & 9896A	5	
		9-E-HZ04-01	Elementary Diagram ECW Intake Structure HVAC Unit HTRS HT035 Thru HT040 & HT155 Thru HT160	6	
	Engineering Changes	DCP 99-13150-2	IVC, ECW, and DGB Area Temperature Switch Set-Point Changes	12/02/1999	
	Engineering Evaluations	FAI/20-0513	Evaluation of Gas Void Potential Effects in STP RHR Piping	0	
	Miscellaneous			Flow Vibration Analyses for the South Texas (Unit 1 & 2) Component Cooling Water Heat Exchangers	10/05/1987
				Meeting Report Regarding Component Cooling Water Flow Induced Vibration Problem	11/18/1987
				System Health Report Component Cooling Water	06/30/2020
			06000252	Component Cooling Water Heat Exchanger Thermal Performance Test PM Template	10/29/2018
			3V229VS0002	Specification for Safety Class Fans	4
			3V289VS0008	Specification for Safety Class Dampers	4
			5R289MB01006	Design Basis Document Component Cooling Water System	8
			5V150VQ1004	Essential Cooling Water Intake Structure Ventilation System Design Criteria	4
			HLAE2400	Final Report Concerning Component Cooling Water Heat Exchangers	11/05/1987
			MM-2-CC-87001592	CCW Heat Exchanger 2B Inspect/Clean Preventative Maintenance Activity	10/09/1990
			Plan of Action 20-4781	Unit 1 RH 1B and 1C Header Pressurization Following SI Accumulator LAR	07/02/2020
		ST-HL-AE-3341	Service Water System Problems Affecting Safety-Related Equipment	01/29/1990	
		ST-HL-AE-3701	Revised Schedule for NRC Generic Letter 89-13, Service Water System Problems Affecting Safety-Related Equipment	04/03/1991	
	ST-HL-AE-3720	Correction of Response to NRC Generic Letter 89-13, Service Water System Problems Affecting Safety-Related	03/27/1991		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
			Equipment		
		ST-HL-AE-3761	Supplemental Response to NRC Generic Letter 89-13, Service Water System Problems Affecting Safety-Related Equipment	05/15/1991	
		VTD-R165-0008	Installation, Operation and Care of Duty Master Nuclear Service Class 1E Nuclear Service Non Class 1E Integral Horsepower Induction Motors	9	
		VTD-W351-0005	Instruction Manual for Westinghouse NSSS Heat Exchangers	1	
	Operability Evaluations	11-3756-3			07/12/2012
		13-9934-18			07/26/2016
	Procedures	0PCP01-ZA-0038	Plant Chemistry Specifications		69
		0PCP03-ZC-0013	Chemical Addition to CW/OC and EW		24
		0PEP07-EW-0001	Performance Test for Essential Cooling Water Heat Exchangers		8
		0PGP03-ZE-0080	Essential Cooling Water System Reliability Program		2
		0PMP04-ZG-0011	Heat Exchanger Cleaning (General Guidelines and Instructions)		9
		0PMP08-ZI-0011	Generic Temperature Switch Calibration (Filled Element)		22
		0POP01-ZO-0004	Extreme Cold Weather Guidelines		40
		0POP02-AF-0001	Auxiliary Feedwater		54
		0POP02-EW-0001	Essential Cooling Water Operations		83
		0POP09-AN-22M1	Annunciator Lampbox 22M01 Response Instructions		26
	0PSP03-SP-0013B	Train B ESF Actuation and Response Time Test		26	
	0PSP03-ZQ-0028	Operator Logs		155	
	Work Orders	Work Activity Number	423592, 443937, 454609, 454610, 479776, 497442, 508549, 522811, 522812, 533286, 544989, 572382, 572383, 575864, 595316, 595317, 595318		
	71111.12	Calculations		3689, 3680, 3675, 3686	
Corrective Action Documents		CR-YYYY-NNNN	2020-1370, 2020-1860, 2019-3905, 2020-1815, 2020-1854, 2019-8208, 2019-7235, 2019-9047, 2020-4561, 2019-14780,		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
			2019-8208, 2020-7429, 2018-8223, 2018-2084, 2017-17317, 2010-21759, 2020-5447, 2020-4958, 2020-8431, 2014-10004, 2020-2379, 2020-2557, 2020-2553, 2020-7892	
	Miscellaneous		DCN 1501807	
			DCP 14-10333-1	
		Vendor Technical Documents	VTD-C634-0029, VTD-C634-0004	
	Procedures	00OI01-OL-0005	Operations Logs - Diesel Generator	16
		0PGP04-ZE-0313	Maintenance Rule Program	9
		0PMP02-NZ-0013	Cable Terminations	33
		0PMP02-ZG-0004	Bolted Joint Procedure	18
		0POP02-DG-0002	Emergency Diesel Generator 12(22)	79
		0PSP03-DG-0003	Standby Diesel 13(23) Operability Test	64
		0PSP06-DJ-0001	125 Volt Class 1E Battery Monthly Surveillance Test	37
		0PSP06-DJ-0002	125 Volt Class 1E Battery Quarterly Surveillance Test	30
	0PSP06-DJ-0003	125 Volt Class 1E Battery Intercell Connection Resistance Surveillance Test	21	
	Work Orders	Work Authorization Number	627615, 628622, 614503, 591778, 624890, 624973, 633040, 575409, 605853, 570201, 629593, 629668, 629665, 615379, 636969	
71111.13	Calculations		3689, 3686	
	Corrective Action Documents	CR-YYYY-NNNN	2020-2557, 2020-2553	
	Procedures	0PMP02-NZ-0013	Cable Terminations	33
		0PMP02-ZG-0004	Bolted Joint Procedure	18
		0PSP06-DJ-0001	125 Volt Class 1E Battery Monthly Surveillance Test	37
		0PSP06-DJ-0002	125 Volt Class 1E Battery Quarterly Surveillance Test	30
		0PSP06-DJ-0002	125 Volt Class 1E Battery Quarterly Surveillance Test	30
	0PSP06-DJ-0003	125 Volt Class 1E Battery Intercell Connection Resistance Surveillance Test	21	
Work Orders	Work Authorization Number	605853, 570201, 629593, 629665, 629668, 581426		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71111.15	Corrective Action Documents	CR-YYYY-NNNN	2020-8152, 2020-7429, 2020-4958, 2020-9042, 2020-9197, 2016-1252, 2004-2663, 2020-7508, 2020-8188, 2020-6781, 2020-5888, 2020-7714, 2020-9943, 2020-10151		
	Drawings	1F-9031		C	
	Miscellaneous	Vendor Manual VTD-B580-0001		Installation, Operation & Maintenance Instructions for Essential Chilled Water Pumps	0
		Vendor Manual VTD-B580-0002		Material of Construction	0
		Vendor Technical Document VTD-R165-0029		Instruction Manual for Essential Cooling Water Pump Motor	1
		Vendor Technical Document VTD-STP1-0001		Rotating Equipment Oil Level Limits and Labels	4
	Procedures	0PGP03-ZA-0133		Fluid Leak Management Program	6
		0PMP05-EW-0001		Essential Cooling Water Pump Motor Inspection	13
	Work Orders	Work Authorization Number	575409		
	71111.18	Corrective Action Documents	CR-YYYY-NNNN	2019-975, 2020-8072, 2020-8117, 2020-8339	
Drawings		HL-10797-2		04/08/1983	
		HS-14295-1		04/06/1983	
Procedures		0PEP07-AF-0001		Auxiliary Feedwater Turbine Overspeed Trip Test	13
		0POP02-AF-0001		Auxiliary Feedwater	54
		0POP02-AF-0002		Resetting Auxiliary Feedwater Pump 14(24) Mechanical Overspeed Trip Device	8
		0PSP03-AF-0007		Auxiliary Feedwater Pump 14(24) Inservice Test	54
Work Orders		Work Authorization Number	615462, 564212, 611949, 585036, 568084, 629571		
71111.19	Corrective Action Documents	CR-YYYY-NNNN	2020-5447		

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures	0POP02-DG-0002	Emergency Diesel Generator 12(22)	79
		0PSP06-DJ-0003	125 Volt Class 1E Battery Intercell Connection Resistance Surveillance Test	21
		0PSP06-DJ-0003	125 Volt Class 1E Battery Intercell Connection Resistance Surveillance Test	21
	Work Orders	Work Authorization Number	570201, 605853, 633040, 629593, 590341, 608858, 609351,	
71111.22	Corrective Action Documents	CR-YYYY-NNNN	2020-6590, 2020-9196, 2020-9445, 2020-8375, 2019-7521, 2015-5166	
	Procedures	0POP07-FR-0006	FLEX Diesel Generator Performance Test	13
		0PSP02-NI-0044	Power Range Neutron Flux Channel IV ACOT (N-0044)	24
		0PSP03-AF-0007	Auxiliary Feedwater Pump 14(24) Inservice Test	54
	Work Orders	Work Authorization Number	607089, 572074, 607584, 607595, 607585	
71114.06	Procedures	0ERP01-ZV-IN01	Emergency Classification	11
		0ERP01-ZV-IN02	Notifications to Offsite Agencies	35
		0POP04-MS-0001	Excessive Steam Demand	17
		0POP05-EO-EO00	Reactor Trip or Safety Injection	26
		0POP05-EO-EO00	Reactor Trip or Safety Injection	26
		0POP05-EO-EO10	Loss of Reactor or Secondary Coolant	23
		0POP05-EO-EO10	Loss of Reactor or Secondary Coolant	23
		0POP05-EO-EO20	Faulted Steam Generator	12
		0POP05-EO-ES13	Transfer to Cold Leg Recirculation	12
		0POP05-EO-	Transfer to Cold Leg Recirculation	12



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		ES13		
		IN010ERP01-ZV-IN02	Notifications to Offsite Agencies	35
71124.05	Calibration Records	File #Z05.01	STPNOC Metrology Laboratory Calibration Form	Numerous
	Corrective Action Documents	CR-YYYY-NNNN	2018-09932, 2018-10097, 2018-10300, 2018-11527 2018-11559, 2018-12026, 2019-01116, 2019-00144 2019-00418, 2019-00936, 2019-01040, 2019-01473 2019-04167, 2019-05107, 2019-06344, 2019-07248 2019-07503, 2019-08688, 2019-08843, 2019-09249 2019-09834, 2019-11503, 2019-12317, 2019-13068 2019-13147, 2020-00943, 2020-02190, 2020-02472 2020-03730, 2020-03731, 2020-03732, 2020-03863 2020-05735, 2020-05863, 2020-06309, 2020-07101 2020-07435, 2020-07834	
	Procedures	0ERP01-ZV-IN07	Offsite Protective Action Recommendations	18
		0PCP01-ZQ-0007	Quality Assurance for Radioanalysis Instrumentation	6
		0PRP10-ZL-0002	Quality Assurance for the Radiological Laboratory	17
		0PSP05-RA-8010B	MAB Unit Vent Wide Range Gas Monitor Calibration	23
		0PSP05-RA-8038	Liquid Waste Processing System No.1 Monitor Calibration	17
		0PSP05-RA-8050	RCB High Range Area Monitor Calibration	17
		0PTP04-ZC-0002	Calibration of the Eberline 6112 Teletector and the Ludlum 78 Stretch Scope	6
		0PTP04-ZC-0044	Calibration of Counting Instruments	9
		0PTP04-ZC-0053	Calibration of Handheld Survey Meters/Ion Chambers	4
		0PTP04-ZC-0062	Maintenance Calibration of SAM Series Small Article Monitors	1
		0PTP04-ZC-0064	Monitor Calibration of Canberra Argos-5AB Whole Body Monitors	2
		0PTP04-ZC-0067	Calibration of the Ludlum Model 26-1 Friskers	1
		0PTP04-ZC-0068	Calibration of the Mirion Telepole II Telescoping Gamma Survey Meter	1
	0PTP04-ZC-0069	Calibration of Alpha-Beta Probes	0	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
	Self-Assessments	0PGP03-ZX-0003	Assessment/Benchmark Report, High Range Radiation and Effluent Monitor Assessment	07/16/2018	
		MN-18-0-107381	Quality Monitoring Report	11/29/2018	
		MN-18-1-107149	Quality Monitoring Report	10/09/2018	
		MN-18-1-107197	Quality Monitoring Report	10/15/2018	
		MN-18-1-107205	Quality Monitoring Report	10/15/2018	
		MN-19-0-107592	Quality Monitoring Report	07/10/2019	
		MN-19-0-107910	Quality Monitoring Report	11/13/2019	
		MN-19-2-107700	Quality Monitoring Report	10/05/2019	
		MN-20-0-108151	Quality Monitoring Report	07/21/2020	
71124.08	Corrective Action Documents	CR-YYYY-NNNN	2018-05496, 2018-11245, 2018-14956, 2018-14957, 2018-14958, 2018-14959, 2018-14963, 2019-04181, 2019-07874, 2019-13300, 2019-13584, 2019-13585, 2019-13586, 2019-14086, 2019-14087, 2020-00407, 2020-01683, 2020-02198, 2020-06679		
	Miscellaneous		Typical Part 61 Sampling and Analysis Waste Stream - DAW Common	02/12/2019	
			Typical Part 61 Sampling and Analysis Waste Stream - HASR	02/26/2019	
			Jan. 2020 Source Inventory and Leak Testing		
			July 2020 Source Inventory and Leak Testing		
	Procedures		0PG03-Z0-0017	Radioactive Waste Process Control Program	9
			0PGP03-ZR-0053	Radioactive Material Control Program	20
			0POP02-WS-0002	High Integrity Container (HIC) Dewatering for Shipment and Burial	15
			0PRP03-ZR-0001	Determination of Radioactive Material Curie Content, Reportability, DOT Sub-Type, and Waste Classification	12
			0PRP03-ZR-0001	Determination of Radioactive Material	12
			0PRP03-ZR-0002	Radioactive Waste Shipments	25
			0PRP03-ZR-0004	Inventory and Leak Testing of Radioactive Sources	10
			0PRP03-ZR-0009	10CFR61 Sampling and Analysis Program	9
			0PRP03-ZR-0011	Shipment of Radioactive Material	21
			0PRP03-ZR-0014	Onsite Staging Facility Operations	11

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		0PRP07-ZR-0025	Preparation and Shipment of High Integrity Containers or Reusable Polyethylene Waste Containers	12
	Radiation Surveys	Survey #111242	OSSC Quarterly Routine Survey	08/24/2020
		Survey #111369	Characterization Survey of Intermodal Container	09/03/2020
	Self-Assessments		Snap-Shot SA Inspection Procedure 71124.08	05/21/2020
			NRC Snapshot Assessment for Inspection Procedure (IP) 71124-05, 71124-06, 71124-07, and 71124-08	07/30/2020
		Audit Report Number 20-02 (RC)	Radiological Controls Quality Audit Report	03/11/2020
		MN-18-0-107403	10 CFR Part 37 Program Review	12/13/2018
		MN-19-0-107916	10 CFR Part 37 Program Review	11/12/2019
	Shipping Records	Shipment # STP-1-19-015	Radioactive Waste Shipment Document Package, Part 1	04/10/2019
		Shipment # STP-1-19-015	Radioactive Waste Shipment Document Package, Part 2	04/10/2019
		Shipment # STP-1-20-013	Radioactive Waste Shipment Document Package	02/26/2020
		Shipment # STP-2-18-058	Radioactive Waste Shipment Document Package	11/28/2018
71152	Corrective Action Documents	CR-YYYY-NNNN	2018-09932, 2018-10097, 2018-10300, 2018-11527 2018-11559, 2018-12026, 2019-01116, 2019-00144 2019-00418, 2019-00936, 2019-01040, 2019-01473 2019-04167, 2019-05107, 2019-06344, 2019-07248 2019-07503, 2019-08688, 2019-08843, 2019-09249 2019-09834, 2019-11503, 2019-12317, 2019-13068 2019-13147, 2020-00943, 2020-02190, 2020-02472 2020-03730, 2020-03731, 2020-03732, 2020-03863 2020-05735, 2020-05863, 2020-06309, 2020-07101 2020-07435, 2020-07834	
71152	Procedures	0ERP01-ZV-IN07	Offsite Protective Action Recommendations	18
71152	Miscellaneous	0PCP01-ZQ-0007	Quality Assurance for Radioanalysis Instrumentation	6
71152	Procedures	0PRP10-ZL-0002	Quality Assurance for the Radiological Laboratory	17
71152	Procedures	0PSP05-RA-	MAB Unit Vent Wide Range Gas Monitor Calibration	23

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		8010B		
71152	Procedures	0PSP05-RA-8038	Liquid Waste Processing System No.1 Monitor Calibration	17
71152	Work Orders	0PSP05-RA-8050	RCB High Range Area Monitor Calibration	17
		0PTP04-ZC-0002	Calibration of the Eberline 6112 Teletector and the Ludlum 78 Stretch Scope	6
		0PTP04-ZC-0044	Calibration of Counting Instruments	9
		0PTP04-ZC-0053	Calibration of Handheld Survey Meters/Ion Chambers	4
		0PTP04-ZC-0062	Maintenance Calibration of SAM Series Small Article Monitors	1
		0PTP04-ZC-0064	Monitor Calibration of Canberra Argos-5AB Whole Body Monitors	2
		0PTP04-ZC-0067	Calibration of the Ludlum Model 26-1 Friskers	1
		0PTP04-ZC-0068	Calibration of the Mirion Telepole II Telescoping Gamma Survey Meter	1
		0PTP04-ZC-0069	Calibration of Alpha-Beta Probes	0
	Self-Assessments	0PGP03-ZX-0003	Assessment/Benchmark Report, High Range Radiation and Effluent Monitor Assessment	07/16/2018
		MN-18-0-107381	Quality Monitoring Report	11/29/2018
		MN-18-1-107149	Quality Monitoring Report	10/09/2018
		MN-18-1-107197	Quality Monitoring Report	10/15/2018
		MN-18-1-107205	Quality Monitoring Report	10/15/2018
		MN-19-0-107592	Quality Monitoring Report	07/10/2019
		MN-19-0-107910	Quality Monitoring Report	11/13/2019
		MN-19-2-107700	Quality Monitoring Report	10/05/2019
		MN-20-0-108151	Quality Monitoring Report	07/21/2020