

# UNITED STATES NUCLEAR REGULATORY COMMISSION

REGION II 245 PEACHTREE CENTER AVENUE N.E., SUITE 1200 ATLANTA, GEORGIA 30303-1200

December 14, 2020

Ms. Kim Maza Site Vice President Duke Energy Progress, LLC 5413 Shearon Harris Road Mail Code HNP01 New Hill, NC 27562-9300

SUBJECT: SHEARON HARRIS NUCLEAR PLANT – DESIGN BASIS ASSURANCE

INSPECTION (TEAMS) INSPECTION REPORT 05000400/2020010

Dear Ms. Maza:

On December 3, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Shearon Harris Nuclear Plant and discussed the results of this inspection with you and other members of your staff. The results of this inspection are documented in the enclosed report.

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

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <a href="http://www.nrc.gov/reading-rm/adams.html">http://www.nrc.gov/reading-rm/adams.html</a> 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,

/RA/

James B. Baptist, Chief Engineering Br 1 Div of Reactor Safety

Docket No. 05000400 License No. NPF-63

Enclosure: As stated

cc w/ encl: Distribution via LISTSERV®

SUBJECT: SHEARON HARRIS NUCLEAR PLANT – DESIGN BASIS ASSURANCE

INSPECTION (TEAMS) INSPECTION REPORT 05000400/2020010

Dated December 14, 2020

## **DISTRIBUTION**:

P. Carman, RII

C. Franklin, RII

N. Morgan, RII

G. Nicely, RII

M. Riley, RII

T. Su, ŘII

J. Zudans, Contractor RIDSNrrPMHARRIS

**RIDSNrrDRO** 

**PUBLIC** 

ADAMS ACCESSION NUMBER: ML20349A221

Entire Report:		x Non-Sensitive			xPublicly Available		
☐ SUNSI Review	☐ SUNSI Review		☐ Sensitive			☐ Non-Publicly Available	
OFFICE	RII/DRS	RII/DRS	RII/DRS	RII/DRS	RII/DRS	RII/DRS	
NAME	P. Carman	N. Morgan	T. Su	J. Baptist	J. Zudans	M. Riley	
DATE	12/04/2020	12/03/2020	12/07/2020		12/07/2020	12/08/2020	
OFFICE							
NAME							
DATE							

**OFFICIAL RECORD COPY** 

# U.S. NUCLEAR REGULATORY COMMISSION Inspection Report

Docket Number: 05000400

License Number: NPF-63

Report Number: 05000400/2020010

Enterprise Identifier: I-2020-010-0038

Licensee: Duke Energy Progress, LLC

Facility: Shearon Harris Nuclear Plant

Location: New Hill, NC

Inspection Dates: March 16, 2020 to December 03, 2020

Inspectors: P. Carman, Senior Reactor Inspector

C. Franklin, Reactor Inspector N. Morgan, Reactor Inspector

G. Nicely, Contractor M. Riley, Reactor Inspector T. Su, Reactor Inspector J. Zudans, Contractor

Approved By: James B. Baptist, Chief

Engineering Br 1
Div of Reactor Safety

#### SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a design basis assurance inspection (teams) inspection at Shearon Harris Nuclear Plant, 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 <a href="https://www.nrc.gov/reactors/operating/oversight.html">https://www.nrc.gov/reactors/operating/oversight.html</a> for more information.

## **List of Findings and Violations**

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

**Additional Tracking Items** 

None.

#### **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 <a href="http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html">http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html</a>. 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), inspectors were directed to begin telework. In addition, 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**

## 71111.21M - Design Bases Assurance Inspection (Teams)

The inspectors evaluated the following components and listed applicable attributes, permanent modifications, and operating experience:

# <u>Design Review - Risk-Significant/Low Design Margin Components (IP Section 02.02) (4 Samples)</u>

- (1) Condensate Storage Tank (1X-SAB)
  - Normal and emergency operating procedures
  - Consistency among design and licensing bases and other documents/procedures
  - Design calculations (minimum usable safety related inventory, vortex formation, tank level setpoints)
  - Auxiliary feedwater (AFW) water supply requirements from condensate storage tank (CST) and alternate methods if the CST is unavailable
  - Seismic qualification
  - Equipment protection from freezing
  - Corrective action history
- (2) Unit 1 Emergency Service Water Pump A
  - Normal, abnormal, and emergency operating procedures
  - Consistency among design and licensing bases and other documents/procedures
  - System health report, maintenance effectiveness and records, and corrective action history
  - Equipment/environmental controls and qualification

- Design calculations (net positive suction head available, Hydraulic, Flow Balance, Structural)
- Surveillance testing, recent test results and trending
- System and component level performance monitoring
- Equipment protection from fire, flood, and water intrusion or spray
- Heat removal cooling water and ventilation
- Major modifications to the components and systems associated with this component

#### (3) 480 V Bus 1B3-SB

- Preventative maintenance procedure and performed work order
- 480 V load center breakers
- 480 V supply voltage transient response during design basis event signal initiation
- 480 V control circuit review
- AC/DC Over-current protection and coordination procedures
- AC distribution system design calculations (voltage, load flow, fault current)

### (4) Unit 1 Emergency Service Water Pump A Discharge Strainer

- Normal, abnormal, and emergency operating procedures
- Consistency among design and licensing bases and other documents/procedures
- System health report, maintenance effectiveness and records, and corrective action history
- Equipment/environmental controls and qualification
- Design calculations (maximum pressure drop)
- Surveillance testing, recent test results and trending
- System and component level performance monitoring
- Major modifications to the components and systems associated with this component

#### Design Review - Large Early Release Frequency (LERFs) (IP Section 02.02) (1 Sample)

### (1) RHR Pump 1A-SA

- Updated final safety analysis report (UFSAR), Design Criteria, and other design basis and licensing basis document accuracy
- Normal and emergency operating procedures
- Maintenance effectiveness
- Component health reports, corrective maintenance records, and corrective action history
- Consistency between station documentation and vendor specifications
- Surveillance and In-service testing results
- Component modifications

#### Modification Review - Permanent Mods (IP Section 02.03) (5 Samples)

- (1) EC 286530, Hydrogen Analyzer and Monitoring Safety Classification Downgrade and Electric Hydrogen Recombiner Removal
- (2) EC 287140, 480 V Motor Control Center Bucket Replacement

- (3) EC 406691, P-4 1BSB Chilled Water Pump Motor Replacement
- (4) EC 416707, Emergency Diesel Generator Overspeed Check Valve Trip
- (5) EC 295208, Essential Services Chilled Water Throttle Valve Resizing

### Review of Operating Experience Issues (IP Section 02.06) (2 Samples)

- (1) NRC Information Notice 2017-05: Potential Binding of Schneider Electric/Square-D Master Pact NT and NW 480V AC Breaker Anti-Pump Feature
- (2) NRC Information Notice 2018-07: Pump/Turbine Bearing Oil Sight Glass Problems

#### **INSPECTION RESULTS**

No findings were identified.

#### **EXIT MEETINGS AND DEBRIEFS**

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

• On December 3, 2020, the inspectors presented the design basis assurance inspection (teams) inspection results to Kim Maza and other members of the licensee staff.

## **DOCUMENTS REVIEWED**

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
71111.21M	Calculations	0030-PKR	Electrical Penetration Protection (Reg. Guide 1.63)	Rev. 16
		0044-SKD	DC Control Power Voltage Criteria for AC Swithchgear	Rev. 11
		3-A-05-001	Heat Sinks Calc. for Cont. Analysis	Rev. 5
		435145017861	SQR for Chilled Water Circulating Pumps Assembly	Rev. 2
		550-2	Stress Calculation: 79-14 As-Built Review	Rev. 4
		9-ESCH-001	HVAC Calculation of Essential Services Chilled Water System	Rev. 9
		9-RAB-001A	RAB Normal Ventilation System Served By EAC-1	Rev. 4
		AF-0013	Auxilliary Feedwater Verification & Setpoints	Rev. 6
		CAR-SH-AS-10	Field Erected Storage Tanks	Rev. 5
		CAR/C90	Dynamic and Hydrodynamic Analysis of Tanks	Rev. 3
		CPA-0012	Procedure E-54 Containment Analysis Heat Sink Source Calculation	Rev. 3
		CPA-0015	Containment Net Free Volume Calculation	Rev. 5
		E-5506	Safe Shutdown (Including NPO) Common Power Supply Coordination And MHIF Study	Rev. 19
		E-5518.000	Class 1E MCC Control Loop Analysis Methodology/Data	Rev. 11
		E-5521.000	Class 1E Power Panel Control Loop Analysis	Rev. 20
		E-5526	Fuse Coordination Study for Safe Shutdown In Case of Fire	Rev. 2
		E-6000	AC Distribution System Voltage/Load Flow/Fault Current Study	Rev. 16
		E-6003	Emergency Power System Voltage Criteria	Rev. 16
		E1-0001.23	MCC Overcurrent Protective Devices – Selection/Setting	Rev. 14
		E1-0002.01	Overcurrent Protection, 480V Feeders to MCC'S	Rev. 6
		E1-0004.01	Overcurrent Protection for 480V Aux. Bus Tie, Bus 1D3 to 1E3	Rev. 3
		E5-0001	Analysis of Motor Output Torque for AC MOV's	Rev. 20
		EDC-0008	Power Cable Sizing	Rev. 12
		EGR-NGGC-0101	Electrical Calculation of Motor Output Torque for AC and DC Motor Operated Valves	Rev. 12

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
		EQS-0003	Condensate Storage Tank Level Setpoints	Rev. 6
		EQS-0020	ESW System – Instrument Setpoints	Rev. 6
		GLS-11HPC- N17462	Generic Seismic Qualification of Homewood Energy Services Nuclear Motors	Rev. 7
		HNP-M/MECH- 1011	Pump Degradation Limits for ESW,CCW and ESCW	Rev. 17
		Not Applicable	RECO Design Calculations for Condensate Storage Tank	Rev. 6
		SI-0043	RHR Pump NPSH Evaluation	Rev. 7
		SW-0007-002	Emergency Service Water TDH Calculation	Rev. 5
		SW-002	Normal Service Water Pumps Discharge Strainer Calcs.	Rev. 0
		SW-0039	ESW Pump Actuation Time Sequence	Rev. 3
		SW-0051	ESW System Performance HNP ESWS Hydraulic Model Validation	Rev. 8
		SW-0078	Minimum ESW Flowrates	Rev. 3
		SW-0079	NPSHA To ESW Booster Pumps	Rev. 0
		SW-0080	ESW Flow Requirements based on Reservoir Level	Rev. 15
		SW-0082	Submergence Available to ESW Pumps	Rev. 1
		SW-0085	Ultimate Heat Sink Analysis,	Rev. 4
		TANK-0014	Condensate Storage Tank Minimum Water Level	Rev. 4
		TANK-0020	CST Minimum Usable and Maximum Required Inventory Analysis	Rev. 4
	Corrective Action Documents	ARs 00187194 02031205 00275366 00598302	Various Corrective Action Reports	Various
		0620381 00666101 02227443		
		02183295 02219992 00741781 01955993		
		01971908		

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
		01987987		
		0211073		
		02111137		
		02114240		
		02114605		
		02110515		
		02114954		
		02114967		
		00561016		
		00741781		
		00740026		
		00741781		
		02026688		
		02092646		
		00430814		
		00434040		
		00747036		
		02092646		
		02064338		
		02017078		
		01999243		
		02213515		
		02095857		
		02098156		
		02098181		
		02227473		
		0748719		
		02224541		
		02207689		
		02302401		
	Corrective Action	02323404	EMI/RFI Applicability for EC 284170	4/1/2020
	Documents	AR 02323532	Evaluation of MCC Contactor Voltage during Transient	4/2/2020
	Resulting from		Conditions	
	Inspection	AR 02323623	Screen Wash Pump Reliability Challenges at HNP	4/2/2020

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
	Drawings	1364-006178	Chilled Water Pump P4 in RAB EL261 Dimension DWG	Rev. 5
		1364-006318	ESW Self Cleaning Strainer Cross Section and	Rev. 9
		1364-007370	Emergency Service Water Pump O/L	Rev. 13
		1364-016186	480 V SWGR Bus RAB 1B3-SB EL 286-0	Rev. 12
		1364-025900	Emergency SW Self Cleaning Strainer O/L for unit 1	Rev. 2
		1364-043477	Emergency Service Water Pump Sectional Dwg 32X42 VS01	Rev. 7
		1364-096537	ESW Pump Lower Seismic Support Assembly	Rev. 1
		1364-16589	Emergency Service Water Pump Motor O/L	Rev. 3
		1364-43475	Emergency Service Water Pump B/M 32X42 VS01	Rev. 13
		1364-47948	Tank 1X SAB (CST Tank Bldg) Elev & Noz Orient	Rev. 4
		1364-4840	Emergency Service Water Pump Performance Curve	Rev. 4
		1364-5954	Chilled Water Pumps P-4 Motor Drawing	Rev. 4
		5-G-0047	Flow Diagram Circulating and Service Water Systems Sheet 1 – Unit 1	Rev. 93
		5-G-0048	Flow Diagram-Circulating and Service Water Systems Sheet 2 – Unit 1	Rev. 77
		5-G-0911	General Arrangement Waste Processing Building Plan EL. 236 Unit 1	Rev. 27
		5-S-0547	Simplified FLow Diagram Circulating & Service Water Systems	Rev. 64
		5-S-808	Simplified Flow Diagram Cooling Tower Blowdown, Make-up and Intake Structures Screenwash Systems Unit 1,	Rev. 37
		6-B-041 0132	Unit 1 Power Distribution & Motor Data 480V Emergency Bus 1B3-SB	Rev. 13
		CAR 2166 G- 0030	480V Auxiliary One Line Diagram	Rev. 33
		CAR-2165 G-88	Flow Diagram Miscellaneous Systems	Rev. 36
		CAR-2165-G-308	Flow Diagram Cooling Tower Blowdown, Make – Up and Intake Structures Screenwash Systems Unit 1	Rev. 40
		CAR-2167-G- 2847	Emergency Service Water System Main Reservoir Intake Structure- MAS SH 3	Rev. 11
		CAR-2167-G- 2848	Emergency Service Water System Main Reservoir Intake Structure- MAS SH 4	Rev. 6

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
		CAR-2167-G-	Emergency Service Water System Main Reservoir Intake	Rev. 9
		2877	Structure- MAS SH 3	
		CPL-2165 G- 0045	Flow Diagram Condensate & Air Evacuation Systems	Rev. 70
		CPL-2165 S-0545	Simplified Flow Diagram Condensate & Air Evacuation Systems Unit 1	Rev. 68
		CPL-2165-S-0547	Simplified Flow Diagram Circulating and Service Water Systems Sheet 1 Unit 1	Rev. 64
		PD5165-BC- 00001	AC Power Distribution System	Rev. 15
	Engineering	284170	480V Motor Control Center Bucket Replacements	Rev. 39
	Changes	286530	Hydrogen Analyzer and Monitoring Safety Classification Downgrade and Electric Hydrogen Recombiner Removal	Rev. 18
		EC 300537	Preliminary Cause of A ESW Pump Failure and Potential Impact on Reliability	Rev. 2
		EC 300538	ESW Pump Seismic Restraint – Bolt Size Reduction	Rev. 0
		EC 400583	HNP Component Reclassification Project and CAS Merger Data Clean-up	Rev. 0
		EC 400763	ESW Min. Wall Evaluations for Cycle 20	Rev. 0
		EC 401600	ESW Pumps Modification-Couplings, Shafts, Bearings	Rev. 7
		EC 402435	ESW Pump Vibration Monitor Station Installation	Rev. 11
		EC 406691	P-4 1BSB Chilled Water Pump - Motor Replacement	Rev. 0
		EC 407423	ESW Screen Wash Pump Oil Level	Rev. 0
		EC 408521	EB 16-25, Critical Component Reduction	Rev. 0
		EC 51467	Minor Changes to Support Lube Program Improvements	Rev. 0
	Engineering Evaluations	98-00186	Analysis of CST Required Minimum Useable Inventory	Rev. 0
	Miscellaneous	#303044	Susquehanna OE	
		01984617-05	QHSA: Triennial Heat Sink Performance	3/3/2016
		909GF294	Instruction Manual Vibraswitch Malfunction Detector Model 365A Model E365A	Rev. L
		AD-EG-ALL-1126 Attachment 3	Seismic Technical Review of Vendor Qualification Reports, GLS-11HPC-N17462	1/12/2017
		AR 0213515	NRC Information Notice 2018-07: Pump/Turbine Bearing Oil	6/18/2018

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
			Sight Glass Problems	
		CM-M0260	Plant Operations Manual: Adams Dual Backwash Automatic Poro-Edge Strainers	Rev. 7
		CSD-ED-DEP- 0308	Pipe Stress Analysis	Rev. 0
		CSD-EG-DEP- 0355	Pipe and Tube System Design	Rev. 0
		DBD-002	Piping Stress Analysis	Rev. 3
		DBD-1000-V02	Environmental Qualification Design Basis Document	Rev. 11
		DBD-112	Condensate, Main Feedwater, Condensate Polishers, Feedwater Drains and Vents Systems	Rev. 26
		DBD-114	Auxiliary Feedwater System	Rev. 017
		DBD-128	Service Water System Traveling Screens and Screen Wash System Waste Processing Building Cooling Water System	Rev. 32
		DBD-132	Essential and Nonessential Services Chilled Water System	Rev. 16
		DBD-202	Plant Electrical Distribution System	Rev. 40
		DBD-305	Hydrogen Monitoring System	Rev. 8
		DSD-132	Essential & Nonessential Services Chilled Water Systems	Rev. 16
		EC 84170	Scope Document	Rev. 0
		ESCW-AO	Essential Services Chilled Water System Training	Rev. 12
		ESR 9600025	Eval. Results of EPT-441 / Modify ESW Pumps	12/18/1996
		HNAOCC164-N	AOCT Impact Training	Rev.0
		HNP-C/EQ-1231	Evaluation of ESW Pump Modification	Rev. 3
		HNP-E-0007	Specification Sub-Type: EIC Procurement Specification for Replacement Motor Control Center Buckets	Rev. 7
		ILC-480V	480 Auxiliary Power	Rev. 11b
		Letter CPL-89- 634	Vortex Formation in the Condensate Storage Tank	10/16/1989
		NCR 434040	Apparent Cause Evaluation - Trend has Emerged With Vertical Pump Equipment	6/31/2011
		PDO for NCR 1970424	PDO for Molded Case Circuit Breaker 1A31-SA-7D tropped.	10/30/2015

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
		Pump Test Deviation Record	ESW SW1A-SA	12/4/2015
		Q4-2019	ESW System Health Report	2/3/2020
		RCE 00747030- 24	Loss of A ESW Flow and Pressure, Entry Into AOP-22	5/4/2015
		VM-IJX	Motors	Rev. 24
		VM-KIS	Pumps, ESW	Rev. 18
		VM-OJZ	Circuit Breakers and Switchgear	Rev. 26
		VTD-ADRP-0001	Adams, RP CO Inc Operating and Maintenance Instructions for the Care and Operation of Dual Backwash Automatic Poro-Edge Strainers.	Rev. 11
	NDE Reports	DBD-105	Residual Heat Removal System	Rev. 14
	Procedures	AD-EG-ALL-1122	Failure Modes and Effects Analysis and Single Failure Analysis	Rev. 2
		AD-EG-ALL-1132	Preparation and Control of Design Change Engineering Changes	Rev. 15
		AD-EG-ALL-1133	Preparation and Control of Design Equivalent Change Engineering Changes	Rev. 11
		AD-EG-ALL-1133	Preparation and Control of Design Equivalent Change Engineering Changes	Rev. 2
		AD-EG-ALL-1137	Engineering Change Product Selection	Rev. 7
		AD-EG-ALL-1216	Surveillance Frequency Control Program	Rev. 2
		AD-EG-ALL-1720	Inservice Testing (IST) Program Implementation	Rev. 5
		AD-LS-ALL-0007	Applicability Determination Process	Rev. 6
		AD-OP-ALL-0105	Operability Determinations and Functionality Assessments	Rev. 5
		AD-OP-ALL-0109	Operator Rounds	Rev. 2
		AD-PI-0401	Significant Operating Experience Program	Rev. 8
		AD-PI-ALL-0100	Corrective Action Program	Rev. 21
		AD-PI-ALL-0400	Operating Experience Program	Rev. 7
		CM-E0010	Molded Case Circuit Breaker Test	Rev. 32
		CM-M0195	Emergency Service Water Screen Wash Pump Disassembly, Inspection, and Reassembly	Rev. 16
		CM-M0223	(ESW) Ingersoll - Dresser Pump (Model 35LKX2)	Rev. 31

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
			Disassembly and Maintenance	
		CSD-EG-DEP- 0105	Control Cable Sizing	Rev. 0
		CSD-EG-DEP- 0106	AC/DC Overcurrent Protection and Coordination	Rev. 0
		EGR-NGCC-0106	AC and DC Over-current Protection and Coordination	Rev. 4
		EOP-E-0	Reactor Trip or Safety Injection	Rev. 15
		EOP-FR-Z.1	Response to High Containment Pressure	Rev. 2
		EPT 250	A Train ESW Flow Verification/Balance Superseded by OPT-1082	Rev. 23
		EPT-44	ESW 1A-SA Pump Curve Determination	Rev. 11
		HNP-IST-004	HNP IST Program Plan – 4th Interval	Rev. 1
		ISI – 800	Inservice Testing of Pumps	Rev. 30
		MPT-E0024	Molded Case Circuit Breaker Test	Rev. 57
		MST-E0006	480/240 VAC Molded Case Circuit Breaker Test	Rev. 34
		MST-E0072	480 VAC Siemens Type RLD Load Center Breaker and Cubicle Test	Rev. 22
		OMM-016	Operator Logs	Rev. 77
		OP-134	Condensate System	Rev. 63
		OP-137	Auxiliary Feedwater System	Rev. 46
		OPT-1082	A-SA Train ESW Flow Verification / Balance	Rev. 5
		OPT-1518	Emergency Service Water Stagnant Area Flushing Monthly Interval at all Times	Rev. 12
		OST-1008	1A-SA RHR Pump Operability Quarterly Interval Modes 1-2-3	Rev. 35
		OST-1015	Emergency Service Water System Operability Monthly Interval Modes 1-2-3-4	Rev. 2
		OST-1108	RHR Pump Operability Quarterly Interval Mode 4, 5, and 6	Rev. 33
		OST-1214	Emergency Service Water System Operability Train A Quarterly Interval Modes 1-2-3-4-5-6 Defueled	Rev. 92
		OST-1825	Safety Injection: ESF Response Time, Train A 18 Month Interval on a Staggered Test Basis Modes 5 - 6	Rev. 50
		OST-1840	Steam Generator Blowdown Sample Valve Position	Rev. 15

Inspection Procedure	Туре	Designation	Description or Title	Revision or Date
			Indication Test 2 Year Interval Modes 1-4	
		OST-1872	ESW Pump – SA ESF Response Time Train A 18 Month Interval On a Staggered Test Basis Modes 1-6	Rev. 1
		PM-E0015	480 V and 6.9 KV Transformer Electrical and Preventive Maintenance Check	Rev. 24
		PM-E0044	480 VAC Type RLN Load Center Breaker ad Cubicle P.M>	Rev. 23
		PM-E0066	480V ABB Type Load Center Breaker and Cubicle PM	Rev. 5
		PM-M0011	Equipment Lubrication	Rev. 28
		PM-M0074	Equipment Lube Oil Sampling	Rev. 34
		PM-M0074	Equipment Lube Oil Sampling	Rev. 34
		SW-0086	Service Water Pressure at Containment Fan Coolers	Rev. 5
	Radiation Surveys	AD-MN-ALL-0002	Foreign Material Exclusion	Rev. 10
	Work Orders	20187811-01 OST-1024 20151114 20163208-01 20164658 20166284 20177328 20177322 20183146-01 2019114-01 20192411 20198603-01 20199925 20204143 20208366-01 20205555 20206969-01 20209816-01 20211218 20216319 20217960-01	Various Work Orders	Various

Inspection	Туре	Designation	Description or Title	Revision or
Procedure				Date
		20213705-01		
		20213705-01		
		20149515-01		
		20221956-01		
		20229229-01		
		20214731-01		
		11993193		
		12263633		
		13304312		
		13315485		
		1331550		
		13465316		
		20021932		
		20085841		
		20097247		
		20109425		
		20118171		
		20126240		
		20126241		
		20164011		
		20164012		
		20164213		
		20268401		
		20268933		
		20276226		
		20301180		
		20316035		
		12052683		
		13441192		
		13519401		