

PSEG Nuclear, LLC
ZEC 2 – Salem I
Docket No: ER20080557

Response to Discovery Request: SI-SSA-0008
Date: 10/1/2020

Question:

A list of any NRC enforcement or legal actions taken or filed against the Unit from ten (10) years prior to the application to present. Be prepared to provide documentation upon request.

Attachments Provided Herewith: NO

Response:

NRC Reactor Oversight Process Inspection Findings 2010-2020

Station	Item Number	Finding Title
Salem (Units 1,2)	2010002-02	Chillers Inoperability Exceeds TS Allowed Outage Time
Salem (Units 1,2)	2010003-01	Buried AFW Discharge Piping Not Tested In Accordance With 10 CFR 50.55a
Salem (Units 1,2)	2010003-02	21 Steam Generator Feed Pump Trip
Salem (Units 1,2)	2010003-03	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2010005-01	13 Turbine Driven Auxiliary Feedwater Pump Trip Mechanism
Salem (Units 1,2)	2011002-01	Unit 1 Main Generator Voltage Regulator
Salem (Units 1,2)	2011002-02	Failure to Submit an LER for a Condition Prohibited by TS Associated with Containment Isolation
Salem (Units 1,2)	2011003-01	Improper Control Of Transient Combustible Material
Salem (Units 1,2)	2011003-02	Inadequate Control of Switchyard Maintenance
Salem (Units 1,2)	2011003-03	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2011003-04	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2011004-01	Inadequate IST Program Evaluation of a Pressure Relief Valve

Station	Item Number	Finding Title
Salem (Units 1,2)	2011004-02	Failure to Evaluate Corrective Action Options for RCP Motor Cables
Salem (Units 1,2)	2011004-03	Late State Notification of UE
Salem (Units 1,2)	2011007-01	Inadequate Calculations for Degraded Voltage Relay Voltage Setpoint
Salem (Units 1,2)	2011007-02	Failure to Perform a TS Required Battery Performance Test
Salem (Units 1,2)	2011007-03	Failure to Identify and Correct a Condition Adverse to Quality Affecting the CREACS Expansion Joints
Salem (Units 1,2)	2011009-01	Untimely Completion of Corrective Actions Results in No. 11 Service Water Strainer Trip Due To Grassing
Salem (Units 1,2)	2011009-02	Biennial PI&R Summary Assessment
Salem (Units 1,2)	2011403-01	SECURITY
Salem (Units 1,2)	2011403-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2011404-01	SECURITY
Salem (Units 1,2)	2011405-01	SECURITY
Salem (Units 1,2)	2012002-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2012003-01	13 SERVICE WATER STRAINER UNAVAILABILITY DUE TO INADEQUATE POST MAINTENANCE TEST
Salem (Units 1,2)	2012003-02	FAILURE TO CORRECT REPEAT FAILURES IN SAFETY-RELATED SOLENOID VALVES IN A TIMELY MANNER
Salem (Units 1,2)	2012003-03	DEFICIENT CONTROL OF TRANSIENT EQUIPMENT IN SEISMIC CLASS AUXILIARY BUILDING
Salem (Units 1,2)	2012003-04	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2012004-01	INADVERTENT INJECTION OF AUXILIARY FEEDWATER INTO THE 23 STEAM GENERATOR
Salem (Units 1,2)	2012005-01	FAILURE TO MAINTAIN ADEQUATE LIQUID CO2 INVENTORY FOR FIRE SUPPRESSION
Salem (Units 1,2)	2012012-01	Failure to provide complete and accurate decommissioning status reports
Salem (Units 1,2)	2012201-01	SECURITY
Salem (Units 1,2)	2012403-01	SECURITY
Salem (Units 1,2)	2013002-01	FAILURE TO CORRECT CONDITION ADVERSE TO QUALITY IN SERVICE WATER CHECK VALVE
Salem (Units 1,2)	2013002-02	FAILURE TO INSTALL THE CORRECT SIZE ZINC ANODE IN 11 SERVICE WATER STRAINER RESULTS IN STRAINER TRIP

Station	Item Number	Finding Title
Salem (Units 1,2)	2013002-03	INADEQUATE RELAY TESTING INSTRUCTIONS CAUSE LOSS OF ONE OFFSITE POWER SOURCE
Salem (Units 1,2)	2013002-04	INADVERTENT ISOLATION OF SERVICE WATER TO ALL EDGS IN MODE 6
Salem (Units 1,2)	2013002-05	FAILURE TO IMPLEMENT FEEDWATER CONTROL VALVE CORRECTIVE ACTIONS
Salem (Units 1,2)	2013003-01	INADEQUATE CORRECTIVE ACTIONS TO ADDRESS AN ADVERSE TREND IN THE 2R1B-2 RADIATION MONITOR
Salem (Units 1,2)	2013003-02	INCORRECT COMPONENT INSTALLED FOR CONTAINMENT CLOSURE
Salem (Units 1,2)	2013003-03	FAILURE TO EVALUATE UNIT 2 SERVICE WATER ACCUMULATOR DISCHARGE VALVE IST NOT MEETING ACCEPTANCE CRITERIA
Salem (Units 1,2)	2013003-04	SCAFFOLD INSTALLED WITH INSUFFICIENT SEPARATION TO SAFETY-RELATED EQUIPMENT
Salem (Units 1,2)	2013003-05	FAILURE TO FOLLOW RADIATION PROTECTION PROCEDURES TO IDENTIFY AND CONTROL ACCESS TO LOCKED HIGH RADIATION AREA
Salem (Units 1,2)	2013003-06	FAILURE TO FOLLOW THE LOSS OF MAIN CONDENSER VACUUM PROCEDURE
Salem (Units 1,2)	2013003-07	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2013004-01	Inadequate Maintenance Procedure to Reconsolidate Pressurizer Spray Valve Pack
Salem (Units 2)	2013005-01	Inadequate Assessment of Fire Brigade Performance during an Unannounced Drill
Salem (Units 1)	2013005-02	Performance Monitoring of Reactor Trip Breakers
Salem (Units 1)	2013005-03	Inadequate HELB Barrier Controls
Salem (Units 1,2)	2013008-01	Failure to Evaluate Performance Deficiency for FIN 2011004-02
Salem (Units 1,2)	2013008-02	13 Switchgear and Penetration Area Ventilation Supply Fan Motor Bearing Failure due to Deletion of Preventative Maintenance Requirement
Salem (Units 1,2)	2013404-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2013404-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2014002-01	Failure to Follow Fire Protection Test Procedure Resulted in Fuel Oil Spill
Salem (Units 1,2)	2014002-02	Inadequate Online Risk Assessment for an Adverse Change in Grid Conditions
Salem (Units 2)	2014002-03	Inadequate Risk Assessment and Risk Management Actions for UV Testing
Salem (Units 2)	2014002-04	Inadequate Post-Maintenance Testing of a Chiller
Salem (Units 1)	2014002-05	Failure to establish appropriate MR performance goals
Salem (Units 1)	2014002-06	Failure to take adequate corrective actions following a PDP failure to couple-ondemand event

Station	Item Number	Finding Title
Salem (Units 2)	2014002-07	Inadequate Inspection of Isolated Phase Main Bus Duct Cooling Fan Sheave
Salem (Units 2)	2014002-08	NOED for Replacement of 24 Station Power Transformer
Salem (Units 1,2)	2014002-09	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 2)	2014003-01	Inadequate Solid Pressurizer Control Resulted in Low Temperature Overpressure Relief Lifting
Salem (Units 2)	2014003-02	Failure to Maintain Shutdown Margin Calculation Procedure to Cover Certain Mispositioned Control Rod Events
Salem (Units 2)	2014003-03	Repetitive Failure of Reactor Coolant Pump Turning Vane Bolts
Salem (Units 2)	2014003-04	Failure to Establish and Implement Adequate Radiation Protection Procedures
Salem (Units 1)	2014004-01	Improper Risk Assessment and Risk Management Actions for a Reheater Drain Valve
Salem (Units 1)	2014004-02	Inadequate Corrective Action to Prevent Recurrence of Silent Steam Generator Feed Pump Coast-Downs
Salem (Units 1)	2014004-03	Incomplete Corrective Action on Current Transformers Results in Reactor Trip
Salem (Units 1)	2014004-04	Inadequate Interim Corrective Actions on Current Transformers Result in Reactor Trip
Salem (Units 1)	2014005-01	Procedural Non-Compliance Resulted in Low Temperature Overpressure Relief Lifting
Salem (Units 1)	2014005-02	Failure to Implement Procedures during Shutdown Results in ESF Actuation
Salem (Units 1)	2014005-03	Failure to Implement TS Locked High Radiation Area Controls
Salem (Units 2)	2014005-04	Failure to Promptly Correct Reactor Coolant Pump Turning Vane Bolt Failures
Salem (Units 1)	2014005-05	Failure to Report a Manual Reactor Trip
Salem (Units 1,2)	2014007-01	Failure to identify degraded conditions associated with the Unit 1 and Unit 2 RWST and AFWST panels
Salem (Units 1,2)	2014403-01	SECURITY
Salem (Units 1,2)	2014403-02	SECURITY
Salem (Units 1,2)	2014404-01	SECURITY
Salem (Units 1,2)	2014404-02	SECURITY
Salem (Units 1,2)	2014405-01	SECURITY
Salem (Units 1,2)	2014405-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2015001-01	Failure to Ensure Adequate Negative Differential Pressure During Fuel Movements
Salem (Units 1,2)	2015001-02	Inadequate Corrective Actions for HELB Barrier Controls
Salem (Units 2)	2015002-01	Untimely Corrective Actions for Service Water Outlet Valve

Station	Item Number	Finding Title
Salem (Units 1)	2015002-02	Failure to Correct a Condition Adverse To Quality Associated With 12 Chiller Motor
Salem (Units 1,2)	2015002-03	Inadequate Seismic EAL Scheme
Salem (Units 1,2)	2015002-04	Inadequate HRA Controls
Salem (Units 1)	2015002-05	Failure to Establish Appropriate Breaker Preventive Maintenance Periodicity
Salem (Units 1,2)	2015002-06	Inadequate Chiller Maintenance Procedure
Salem (Units 1)	2015003-01	Failure to Establish Measures for the Selection and Review for Suitability of a TDAFW Room Cooler Temperature Switch
Salem (Units 2)	2015003-02	Inadequate Operability Determination of Auxiliary Feedwater Flow Rate Indicator
Salem (Units 1)	2015003-03	Failure to Correct Chronic Chiller Relief Valve Freon Leaks
Salem (Units 2)	2015004-01	Inadequate Auxiliary Building Barrier Controls
Salem (Units 1)	2015004-02	Inadequate Maintenance Effectiveness of Control Room Ventilation Radiation Monitors
Salem (Units 1)	2015004-03	Improper PM Deletion Resulted in Plant Shutdown Required by Technical Specifications
Salem (Units 1,2)	2015004-04	Inadequate Post Maintenance Testing on OTDT Channels
Salem (Units 1,2)	2015004-05	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2015007-01	Post-fire Safe Shutdown Operator Manual Actions to Align Temporary Ventilation Not Assessed for Feasibility and Reliability
Salem (Units 1)	2015007-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2015008-01	Inadequate Maintenance Rule System Performance Criteria Selection
Salem (Units 1,2)	2015008-02	Failure to Correct a Condition Adverse to the Quality of the Chillers
Salem (Units 1,2)	2015008-03	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2015009-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2015403-01	SECURITY
Salem (Units 1,2)	2015404-01	SECURITY
Salem (Units 1,2)	2015404-02	SECURITY
Salem (Units 1,2)	2015404-03	SECURITY
Salem (Units 1)	2016001-01	Failure to Correct Chiller Failures due to Gasket Leakage
Salem (Units 2)	2016001-02	Inadequate Digital Feedwater Design Change Evaluation
Salem (Units 1)	2016001-03	Untimely Identification and Correction of Unsatisfactory Control Room Ventilation Charcoal Testing
Salem (Units 1)	2016001-04	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2016002-01	Baffle-Former Bolts with Identified Anomalies
Salem (Units 2)	2016002-02	Withdrawn - Failure to Follow Operability Determination Procedure for Unit 2 Baffle-Former Bolts
Salem (Units 2)	2016002-03	Inadequate Work Order Planning Results in Main Generator AVR STV Relay Trip

Station	Item Number	Finding Title
Salem (Units 2)	2016002-04	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2016003-01	Misclassification of and Lack of Preventative Maintenance for SWC Valve 2GW75 and Relay S62-C1
Salem (Units 1)	2016003-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2016004-01	Inadequate Maintenance Procedure for Steam Generator Feedwater Pump Coupling Hub Set Screw Installation
Salem (Units 2)	2016004-02	Inadequate Surveillance Test Procedure Results in Water Hammer and Reactor Trip
Salem (Units 1,2)	2016004-03	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2016404-01	SECURITY
Salem (Units 1,2)	2016404-02	SECURITY
Salem (Units 1)	2017001-01	Loss of Unit 1C 4kV Vital Bus due to Inadequate Activity Risk Screening
Salem (Units 1)	2017001-02	Inadequate Fire Risk Assessment and Management
Salem (Units 1)	2017001-03	Failure to Conduct Post-Maintenance Testing Required by Procedure and Work Order Resulting in Inoperable Containment Fan Coil Units
Salem (Units 1,2)	2017001-04	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2017002-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2017002-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1)	2017003-01	Expiration of Periodic Inservice Testing of 14 Service Water Pump
Salem (Units 1)	2017003-02	Violation of Containment Integrity Technical Specification
Salem (Units 1)	2017003-03	Failure to Follow Maintenance Procedure to Assure Proper Installation of Service Water Check Valve
Salem (Units 1)	2017004-01	Non-conformance with the Containment Thermal Insulation System was not Identified and Corrected
Salem (Units 1)	2017004-02	Inadequate Reactor Vessel Head Removal Procedure
Salem (Units 1,2)	2017007-01	Inadequate Design Verification that Inter-Cabinet Bolts were Installed between SEC and Bailey Cabinets
Salem (Units 1,2)	2017007-02	INADEQUATE PM FOR THE EDG ROOM VENTILATION SYSTEM
Salem (Units 1,2)	2017007-03	INADEQUATE CORRECTIVE ACTION REGARDING MISSED PERIODIC INSPECTION OF 2C EDG AVR CARD
Salem (Units 2)	2017009-01	Failure to Follow Troubleshooting Procedure for BIT Relief Valve Leakage
Salem (Units 1,2)	2017403-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2018001-01	Implementing Procedures for Beyond Design Basis FLEX Mitigating Strategies Not Followed
Salem (Units 1)	2018001-02	Inadequate Procedure Step Results in Service Water Strainer Trip
Salem (Units 1)	2018001-03	Failure to Establish Containment Integrity during Plant Startup
Salem (Units 1,2)	2018002-01	Inadequate Design Change for Service Water Pumps
Salem (Units 2)	2018003-01	INADEQUATE CHILLER MAINTENANCE PROCEDURES

Station	Item Number	Finding Title
Salem (Units 2)	2018003-02	Failure to Follow Generic Letter 89-13 Program Procedure
Salem (Units 1,2)	2018003-03	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1, 2)	2018004-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2018007-01	Failure to Perform Testing of Emergency Diesel Generator Bypass Switches
Salem (Units 1,2)	2018007-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2018403-01	SECURITY
Salem (Units 1,2)	2018403-02	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2018410-01	SECURITY
Salem (Units 1,2)	2019410-02	SECURITY
Salem (Units 1,2)	2019410-01	SECURITY
Salem (Units 1,2)	2019011-01	Missing Preventive Maintenance for Environmental Qualification Program Components
Salem (Units 1,2)	2019010-02	Minor Violation
Salem (Units 1,2)	2019010-01	Minor Violation
Salem (Units 1,2)	2019004-02	Inadequate Corrective Actions for Feedwater Regulating Valve Vibrations
Salem (Units 1,2)	2019004-01	Inadequate Control of Transient Combustible Materials in accordance with the Fire Protection Program Procedure
Salem (Units 1,2)	2019003-01	LICENSEE-IDENTIFIED VIOLATION
Salem (Units 1,2)	2019002-03	Inadequate Protection from Tornado Missiles Due to Nonconforming Design Conditions.
Salem (Units 1,2)	2019002-02	Inadequate Procedures for the Removal of Baffle Bolts
Salem (Units 1,2)	2019002-01	Fuel Handling Procedures Not Followed
Salem (Units 1,2)	2019001-01	Failure to Correct a Condition Adverse to Fire Protection
Salem (Units 1,2)	2020001-02	Inadequate Corrective Action for Vital Instrument Bus Inverter Failure
Salem (Units 1,2)	2020001-01	FLEX Auxiliary Feedwater Pump Oil Unacceptable
Salem (Units 1,2)	2020002-01	Inadequate Troubleshooting of a Failed Control Rod Drive Motor Generator Set
Salem (Units 1,2)	2020401-01	LICENSEE-IDENTIFIED VIOLATION

Environmental Enforcements from 2010-2020:

Station	Year	Item Number	Finding
Salem & Hope Creek	2013	PEA130001	Inaccurate Entries in 2011 Emissions Statement
Salem	2013	PEA13001	Non-Compliance Total Coliform
Salem	2013	PEA13001	Non-Compliance E.coli
Salem	2014	NEA140001	Hours of Operation Exceeded 900 hours/year
Salem	2014	PEA140001	Non-Compliance Total Coliform
Salem	2015	PEA150001	Non-Compliance Total Coliform
Salem	2015	NEA150001	Non-Compliance CPO
Salem	2017	BEA170001	Failure to submit remediation investigation report within required timeframe
Salem & Hope Creek	2017	PEA170001	Failure to comply with various applicable spill plan requirements
Salem	2018	PEA180001	Non-Compliance Lead & Copper

OSHA Violations from 2010-2020:

Number:	Citation:	Issuance:	Company Cited:
1057271.015	Standard Cited: 19100147 E02 I The control of hazardous energy (lockout/tagout).	6/19/2015	PSEG Nuclear
1115505.015	Standard Cited: 19100269 V10 I Electric Power Generation, Transmission, and Distribution.	5/12/2016	PSEG Nuclear