



APR 28 2015

LR-N15-0091

10 CFR 50.73

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, DC 20555-0001

Salem Nuclear Generating Station Unit 1  
Renewed Facility Operating License No. DPR-70  
NRC Docket No. 50-272

SUBJECT: Licensee Event Report 272/2015-001-001

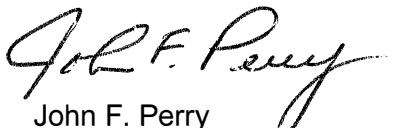
REFERENCE: PSEG Letter LR-N15-0054, dated March 16, 2015  
Licensee Event Report 272/2015-001

The Licensee Event Report (LER), 272/2015-001-001, "Fuel Movement in Progress With Fuel Handling Building Ventilation Inoperable" is being submitted in accordance with the requirements of 10 CFR 50.73(a)(2)(i)(B), "Any operation which was prohibited by the plant's Technical Specifications..." and 10 CFR 50.73(a)(2)(v)(C), "Any event or condition that could have prevented the fulfilment of the safety function of structures or systems that are needed to control the release of radioactive material..." The referenced LER stated that Salem Nuclear Generating Station would submit a supplement to the LER with the results of the causal evaluation performed for the event. The results of the causal evaluation are being communicated in the LER supplement attached to this letter.

Should you have any questions or comments regarding the submittal, please contact David Lafleur of Salem Regulatory Assurance at 856-339-1754.

There are no regulatory commitments contained in this letter.

Sincerely,

  
John F. Perry  
Site Vice President – Salem

Attachments (1)

cc Mr. D. Dorman, Administrator – Region 1, NRC  
Ms. C. Sanders - Parker, Licensing Project Manager – Salem, NRC  
Mr. P. Finney, USNRC Senior Resident Inspector, Salem (X24)  
Mr. P. Mulligan, Manager IV, NJBNE  
Mr. R. Braun, President and Chief Nuclear Officer – Nuclear  
Mr. T. Cachaza, Salem Commitment Tracking Coordinator  
Mr. L. Marabella, Corporate Commitment Tracking Coordinator  
Mr. D. Lafleur, Salem Regulatory Assurance

<b>NRC FORM 366</b> (01-2014)	<b>U.S. NUCLEAR REGULATORY COMMISSION</b>  <b>LICENSEE EVENT REPORT (LER)</b> (See Page 2 for required number of digits/characters for each block)	<b>APPROVED BY OMB: NO. 3150-0104</b> <b>EXPIRES: 01/31/2017</b>	Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOF-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.
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<b>1. FACILITY NAME</b> Salem Generating Station – Unit 1	<b>2. DOCKET NUMBER</b> 05000272	<b>3. PAGE</b> 1 OF 3
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**4. TITLE** Fuel Movement in Progress With Fuel Handling Building Ventilation Inoperable

5. EVENT DATE			6. LER NUMBER			7. REPORT DATE			8. OTHER FACILITIES INVOLVED	
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REV NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER
01	16	2015	2015	-001	-001	04	28	2015	FACILITY NAME	DOCKET NUMBER <b>05000</b>
									FACILITY NAME	DOCKET NUMBER <b>05000</b>

<b>9. OPERATING MODE</b> 1	<b>11. THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §:</b> (Check all that apply)			
<b>10. POWER LEVEL</b>  100%	<input type="checkbox"/> 20.2201(b)	<input type="checkbox"/> 20.2203(a)(3)(i)	<input type="checkbox"/> 50.73(a)(2)(i)(C)	<input type="checkbox"/> 50.73(a)(2)(vii)
	<input type="checkbox"/> 20.2201(d)	<input type="checkbox"/> 20.2203(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)
	<input type="checkbox"/> 20.2203(a)(1)	<input type="checkbox"/> 20.2203(a)(4)	<input type="checkbox"/> 50.73(a)(2)(ii)(B)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)
	<input type="checkbox"/> 20.2203(a)(2)(i)	<input type="checkbox"/> 50.36(c)(1)(i)(A)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)(A)
	<input type="checkbox"/> 20.2203(a)(2)(ii)	<input type="checkbox"/> 50.36(c)(1)(ii)(A)	<input type="checkbox"/> 50.73(a)(2)(iv)(A)	<input type="checkbox"/> 50.73(a)(2)(x)
	<input type="checkbox"/> 20.2203(a)(2)(iii)	<input type="checkbox"/> 50.36(c)(2)	<input type="checkbox"/> 50.73(a)(2)(v)(A)	<input type="checkbox"/> 73.71(a)(4)
	<input type="checkbox"/> 20.2203(a)(2)(iv)	<input type="checkbox"/> 50.46(a)(3)(ii)	<input type="checkbox"/> 50.73(a)(2)(v)(B)	<input type="checkbox"/> 73.71(a)(5)
	<input type="checkbox"/> 20.2203(a)(2)(v)	<input type="checkbox"/> 50.73(a)(2)(i)(A)	<input checked="" type="checkbox"/> 50.73(a)(2)(v)(C)	<input type="checkbox"/> OTHER
<input type="checkbox"/> 20.2203(a)(2)(vi)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)(B)	<input type="checkbox"/> 50.73(a)(2)(v)(D)	Specify in Abstract below or in NRC Form 366A	

**12. LICENSEE CONTACT FOR THIS LER**

FACILITY NAME David Lafleur, Senior Compliance Engineer, Salem Regulatory Assurance	TELEPHONE NUMBER (Include Area Code) (856) 339-1754
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**13. COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT**

CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX	CAUSE	SYSTEM	COMPONENT	MANU-FACTURER	REPORTABLE TO EPIX
A	-	-	-	-					

<b>14. SUPPLEMENTAL REPORT EXPECTED</b> <input type="checkbox"/> YES (If yes, complete 15. EXPECTED SUBMISSION DATE) <input checked="" type="checkbox"/> NO	<b>15. EXPECTED SUBMISSION DATE</b>	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines)

On 1/16/15, irradiated fuel was being moved in the Salem Unit 1 Fuel Handling Building in support of fuel sipping activities. Fuel Handling Building ventilation system operability was being monitored via local indication as permitted by station procedures. While fuel was being moved, the local differential pressure indicator oscillated between negative and slightly positive. Fuel movement was not secured as required by Technical Specification when negative building differential pressure was not maintained.

Operations control room crew members failed to apply fundamentals of control board awareness and effective crew teamwork. Operations department expectations were reinforced with respect to the assignment of personnel for continuous monitoring of equipment.

This report is made in accordance with 10 CFR 50.73 (a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications..." and with 10 CFR 50.73 (a)(2)(v)(C), "Any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to control the release of radioactive material..."



**LICENSEE EVENT REPORT (LER)  
CONTINUATION SHEET**

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Privacy and Information Collections Branch (T-5 F53), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by internet e-mail to Infocollects.Resource@nrc.gov, and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0104), Office of Management and Budget, Washington, DC 20503. If a means used to impose an information collection does not display a currently valid OMB control number, the NRC may not conduct or sponsor, and a person is not required to respond to, the information collection.

1. FACILITY NAME	2. DOCKET	6. LER NUMBER			3. PAGE
		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	
Salem Generating Station – Unit 1	05000272	2015	- 001	- 001	2 OF 3

**NARRATIVE**

**PLANT AND SYSTEM IDENTIFICATION**

Westinghouse - Pressurized Water Reactor {PWR/4}  
 Fuel Handling Building Ventilation- {VG/AHU}  
 Fuel Handling Building Differential Pressure Indicator- {VG/PDI}

Energy Industry Identification System (EIS) codes and component function identifier codes appear as {SS/CCC}.

**IDENTIFICATION OF OCCURRENCE**

Event Date: January 16, 2015

Discovery Date: January 16, 2015

**CONDITIONS PRIOR TO OCCURRENCE**

Salem Unit 1 was in operational Mode 1, operating at approximately 100 percent power. The Fuel Handling Building (FHB) differential pressure (D/P) LO Alarm in the control room was locked in. No additional structures, systems or components were inoperable at the time of discovery that contributed to this event.

**DESCRIPTION OF OCCURRENCE**

On 1/16/2015, at approximately 0807, Reactor Engineering, and Outage Services commenced fuel sipping in accordance with procedures. Conditions to perform fuel movements in the fuel handling building were verified to be in accordance with the Salem Unit 1 Spent Fuel Pool Manipulations procedure.

On 1/16/2015, at approximately 1004, fuel sipping was secured because Fuel Handling Building (FHB) differential pressure (D/P) {VG/PDI} was observed oscillating to a slightly positive pounds per square inch differential (psid).

Salem Unit 1 Technical Specifications state that during movement of irradiated fuel within the FHB, two exhaust fans and one supply fan shall be operable and capable of maintaining slightly negative pressure in the Fuel Handling Building.

This event is reported in accordance with 10 CFR 50.73 (a)(2)(i)(B), "Any operation or condition which was prohibited by the plant's Technical Specifications..."

The inability of the FHB Ventilation System {VG/AHU} to maintain the required negative D/P constitutes a Safety System Functional Failure, and is reported in accordance with 10 CFR 50.73 (a)(2)(v)(C), "Any

**LICENSEE EVENT REPORT (LER)  
CONTINUATION SHEET**

1. FACILITY NAME	2. DOCKET	6. LERNUMBER			3. PAGE
Salem Generating Station – Unit 1	05000272	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 3
		2015	- 001	- 001	

**NARRATIVE**

event or condition that could have prevented the fulfilment of the safety function of structures or systems that are needed to control the release of radioactive material..."

**CAUSE OF EVENT**

Operations control room crew members failed to apply fundamentals of control board awareness and effective crew teamwork. A dedicated individual was not assigned by the Control Room Supervisor (CRS) to continuously monitor FHB air D/P indication as required by procedure. The operating crew chose to monitor the local FHB air D/P indicator using a camera with a display on the CRS's monitor. The CRS elected to assume monitoring of the FHB air D/P indication when the responsibilities of his position did not allow him to provide sufficient monitoring to ensure the requirements to move fuel were satisfied at all times.

**SAFETY CONSEQUENCES AND IMPLICATIONS**

The safety significance of this event is minimal. The event did not result in any offsite release of radioactivity or increase of offsite dose rates. There were no personnel injuries or damage to any safety-related equipment. The amount of radioactivity released from a postulated fuel handling accident assuming a full release of building volume to the environment was previously evaluated and determined that the release to the Exclusion Area Boundary (EAB) and the Low Population Zone (LPZ) were well below regulatory limits.

**SAFETY SYSTEM FUNCTIONAL FAILURE**

This event constitutes a Safety System Functional Failure (SSFF) as defined in Nuclear Energy Institute (NEI) 99-02, Regulatory Assessment Performance Indicator Guideline.

**PREVIOUS OCCURRENCES**

A review of Salem Unit 1 and 2 Licensee Event Reports for the previous three years identified no other similar events.

**CORRECTIVE ACTIONS**

1. The control room FHB D/P LO Alarm response procedure will be revised to establish a dedicated watch for continuous monitoring of the FHB air D/P local indication during fuel movement.
2. Operations department expectations were reinforced with respect to the assignment of personnel for continuous monitoring of equipment.

**COMMITMENTS**

This LER contains no regulatory commitments.