

NRR-PMDAPEm Resource

From: Higgins, Frank:(GenCo-Nuc) [frank.higgins@exeloncorp.com]
Sent: Thursday, June 18, 2015 10:29 AM
To: DiFrancesco, Nicholas; Wyman, Stephen
Cc: Clark, Jeffrey S.:(GenCo-Nuc); Merritt, Chuck:(GenCo-Nuc); Waiters, Sheldon:(GenCo-Nuc)
Subject: NRC ESEP questions - Calvert Cliffs Attachment 1 - Email 1
Attachments: Attachment 1 ESEP Unit 1 Containment Walkdown.pdf

On behalf of Jeff Clark I am forwarding the Calvert Attachments.

Due to size limitations I split the PDF into two pdfs -one per unit. I will be sending attachments in separate emails. Attachment 1 contains Executive summary and Unit 1 Containment walkdown photos. Email 1

Attachment 1A contains Unit 2 Containment walkdown photos Email 2

Please confirm receipt of these pdfs as it completes our response to the ESEP questions.

Thank You

Frank Higgins
Fukushima Seismic and Flooding Lead
Calvert Cliffs
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4104952372 W

Mr. DiFrancesco/Mr. Wyman,

In response to your email below, Exelon is pleased to provide you with the attached responses to your questions requested by June 19, 2015. Please feel free to contact us with any further questions or clarifications needed to support the NRC's ESEP report reviews.

Thank You,

Jeff Clark

Re-Sending as separate word & pdf files (previously pdf embedded in Word file).

Please confirm receipt.

Thanks,
Jeff

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CALVERT CLIFFS NUCLEAR POWER PLANT

Calvert Cliffs Response to NRC ESEP Report Questions – Attachment 1

Containment Walkdown Photographs – Unit 1

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Executive Summary

The purpose of this report is to document the Unit 1 and 2 Containment walkdowns performed at Calvert Cliffs to provide photographs of the installed configurations of equipment listed on the Expedited Seismic Evaluation List (ESEL) to support the Expedited Seismic Evaluation Process (ESEP).

Calvert Cliffs was required to conduct an ESEP as a result of “Screening In” as described in May 9, 2014 NRC letter to All Power Reactor Licensees documenting the results of the Screening and Prioritization Process 50.54(f) Regarding Seismic Hazard Re-Evaluations for Recommendation 2.1. In anticipation of this possibility, Calvert Cliffs developed the ESEL in 2013 in conjunction with the FLEX plan development. As the screening had not been completed, Calvert proactively decided to perform the Unit 1 Containment walkdown and obtain photographs of the ESEL installation configurations during the Unit 1 2014 Spring outage. These walkdown and photographs were taken by a Civil Engineer, on the Fukushima Response Team, familiar with the potential information that would be needed by the Seismic Review Team (SRT) to perform High Capacity Low Probability of Failure (HCLPF) calculations. All Unit 1 Containment photographs used by the SRT to calculate HCLPFs were taken in 2014. The SRT was not mobilized at this time and therefore could not support an actual walk by during this outage.

The ESEP was conducted with the assumption that the Unit and Unit 2 configurations would be similar if not identical. Unit 2 outage wasn’t scheduled until the Spring of 2015. The ESEP report was due to the NRC in December 2014 resulting in Unit 2 ESEL components being listed as inaccessible in ESEP submittal. Therefore, a confirmatory walkdown was performed, by the same Civil Engineer that performed the Unit 1 walkdown, to obtain photographs of the Unit 2 ESEL component installation configurations. This walkdown and photography occurred on February 20, 2015.

The SRT used the Unit 1 photographs in conjunction with the approved design drawings to perform HCLP calculations and/or screen out the components from needing further evaluation per EPRI NP 6041-SL “A Methodology for Assessment of Nuclear Plant Seismic Margin”.

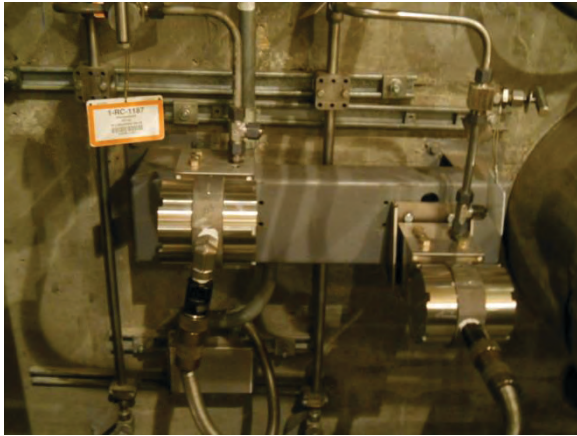
The remainder of this report is the photographic evidence that shows the Unit 1 and Unit 2 configurations are the same and therefore the assumption, that the configurations are the same, in the submitted ESEP report is correct.

No further walkdowns are planned or required to meet the ESEP requirements.

UNIT 1

Equipment ID No: 1LT-103

Equipment Description: Pressurizer Level



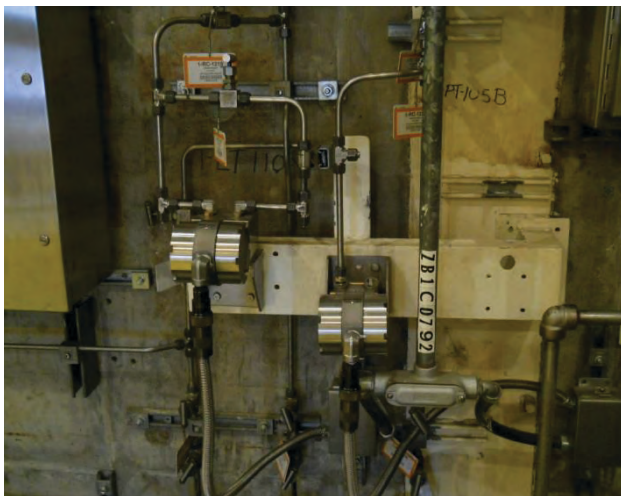
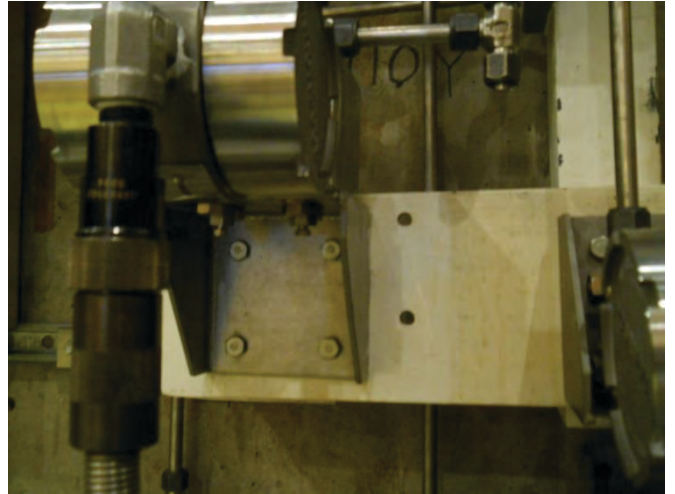
Equipment ID No: 1LT-110X

Equipment Description: Pressurizer Level



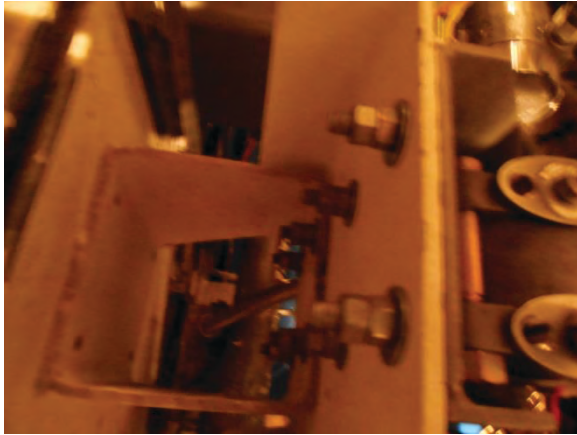
Equipment ID No: 1LT-110Y

Equipment Description: Pressurizer Level



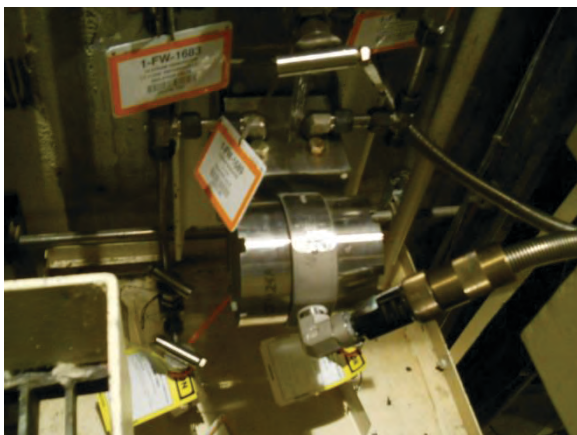
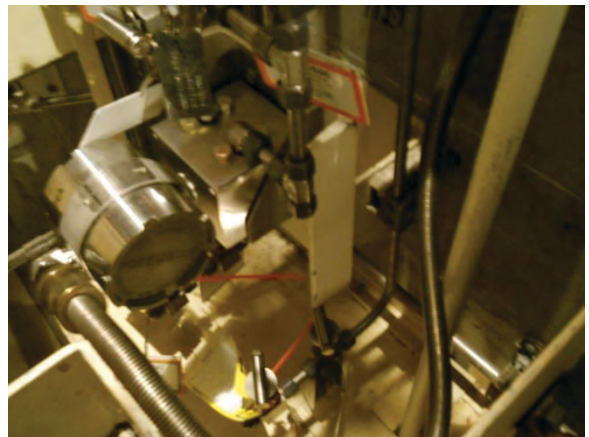
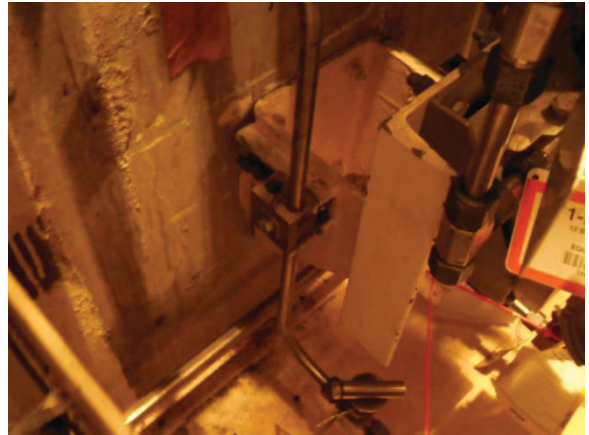
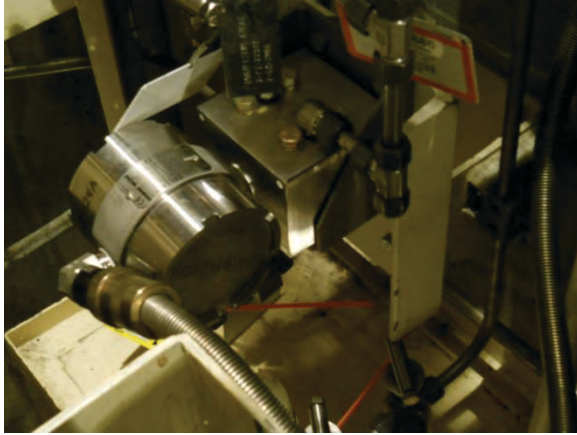
Equipment ID No: 1PT-105A

Equipment Description: Pressurizer Pressure



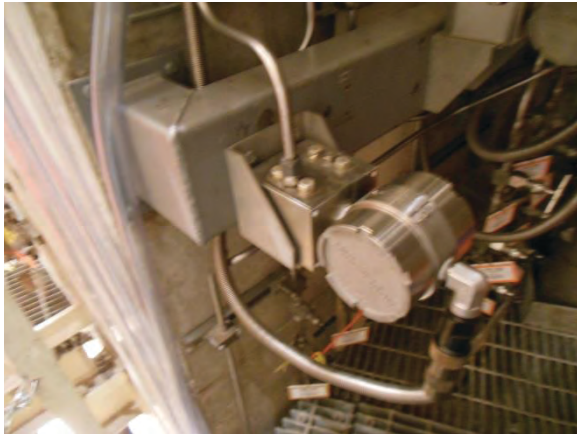
Equipment ID No: 1LT-1124A

Equipment Description: Steam Generator Wide
Range Level



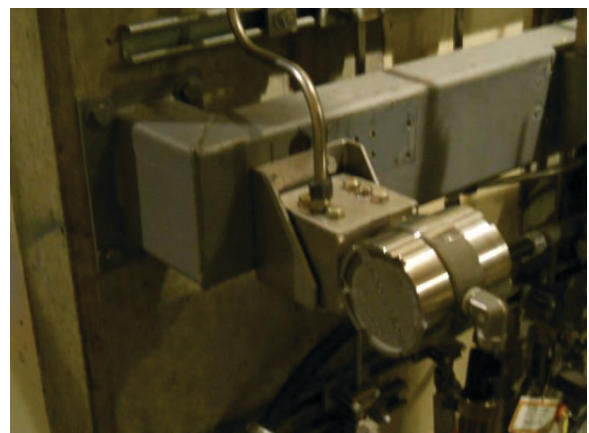
Equipment ID No: 1PT-1013A

Equipment Description: Steam Generator Safety
Channel Pressure



Equipment ID No: 1PT-1023A

Equipment Description: Steam Generator Safety
Channel Pressure



Equipment ID No: 1TE-5309

Equipment Description: Containment Dome
Temperature



Equipment ID No: SIT Tank 11 A

Equipment Description: 11 A Safety Injection Tank

Tank Mounting Typical for all SIT Tanks



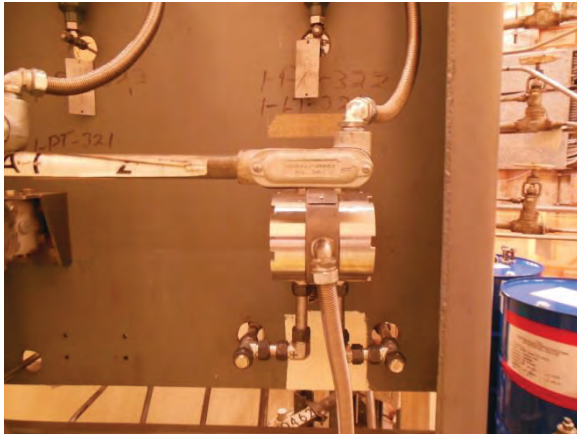
Equipment ID No: 1LT-321

Equipment Description: 11 A SIT Level Transmitter



Equipment ID No: 1PT-321

Equipment Description: 11 A SIT Pressure Transmitter



SIT Pressure Transmitter

SIT Level Transmitter



Note: SIT Level and Pressure Transmitters are located on the same Instrument Rack. Typical for both Unit 1 and 2 SIT Tanks instrumentation.

Equipment ID No: SIT Tank 11 B

Equipment Description: 11 B Safety Injection Tank

Tank Mounting Typical for all SIT Tanks



Equipment ID No: 1LT-311

Equipment Description: 11 B SIT Level Transmitter



Equipment ID No: 1PT-311

Equipment Description: 11 B SIT Pressure Transmitter



Equipment ID No: SIT Tank 12A

Equipment Description: 12 A Safety Injection Tank

Tank Mounting Typical for all SIT Tanks



Equipment ID No: 1LT-341

Equipment Description: 12 A SIT Level Transmitter



Equipment ID No: 1PT-341

Equipment Description: 12 A SIT Pressure
Transmitter



Equipment ID No: SIT Tank 12B

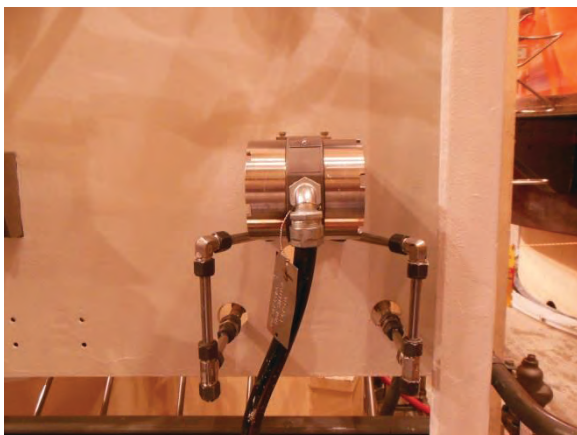
Equipment Description: 12 B Safety Injection Tank

Tank Mounting Typical for all SIT Tanks



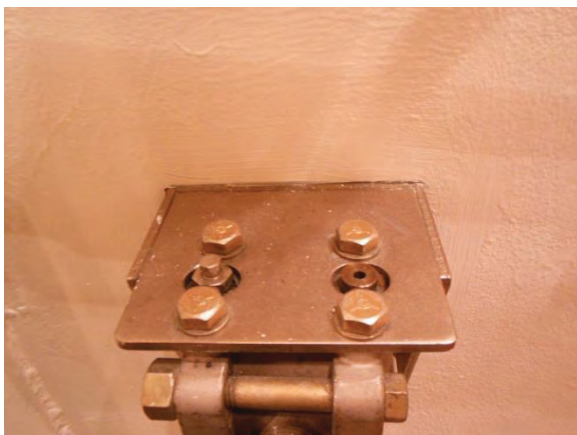
Equipment ID No: 1LT-331

Equipment Description: 12 B SIT Level
Transmitter



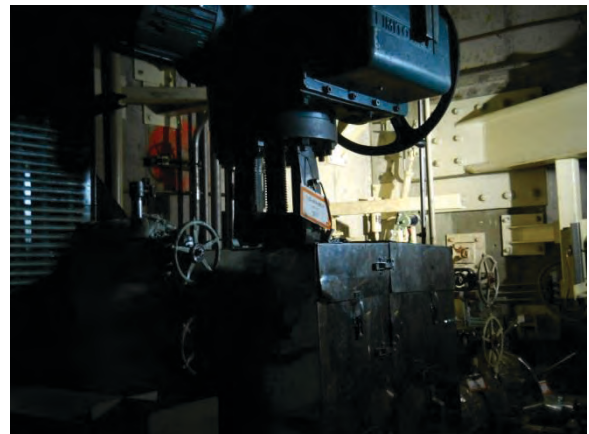
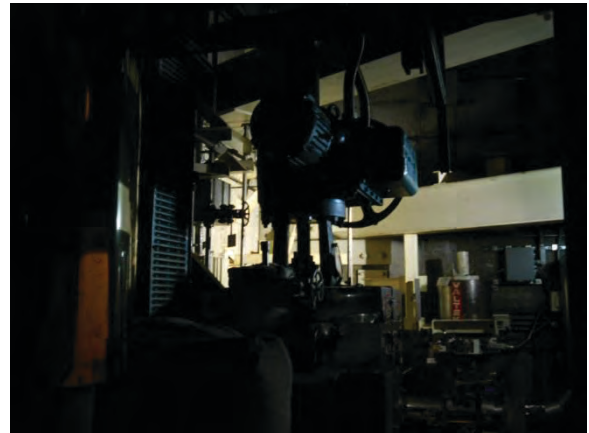
Equipment ID No: 1PT-331

Equipment Description: 12 B SIT Pressure Transmitter



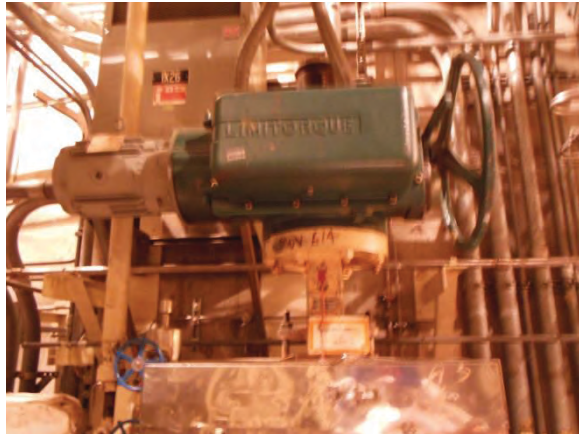
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Discharge Valves Unit 1 – Unit 2 has
the same configuration**

Equipment Description: Safety Injection Tank
Outlet MOV



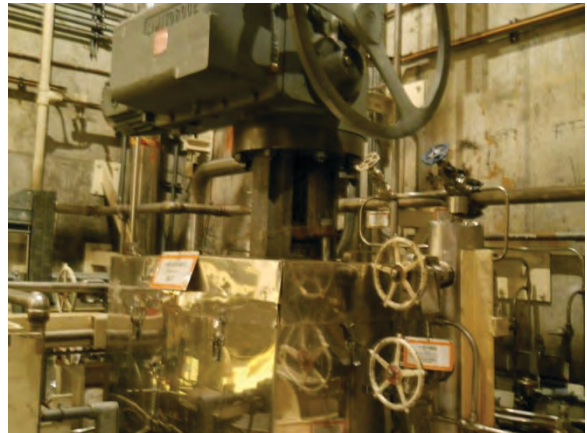
**Equipment ID No: SIT Tank
Discharge Valves Unit 1 – Unit 2 has
the same configuration**

Equipment Description: Safety Injection Tank
Outlet MOV



**Equipment ID No: SIT Tank
Discharge Valves Unit 1 – Unit 2 has
the same configuration**

Equipment Description: Safety Injection Tank
Outlet MOV



Equipment ID No: SIT Tank
Discharge Valves Unit 1 – Unit 2 has
the same configuration

Equipment Description: Safety Injection Tank
Outlet MOV

