

Scope of Potential Tritium Sources

See below for details on each of the potential sources originally evaluated by Exelon as the potential leak sources and how each was addressed.

A-4: 6" x 25' Aluminum, Condensate transfer pumps to Turbine Building. The line has been excavate 90%. Only about 2' remain unobservable. However, the pipe is in service at 125 psi and no leakage has been observed. UST indicates acceptable wall thickness.

(b)(5)

CS-24: 10" x 30' Carbon Steel, Hotwell level control. The pipe was discovered to have about a 1 sq. in. hole due to corrosion from the outside pipe surface upon being returned to service following examination. Previously, the pipe was subjected to G-Scan (i.e. low frequency ultrasonic guided wave) but the defect was not interpreted properly.

(b)(5)

CS-25: 8" x 30' Carbon Steel, Hot well level control piping system. The pipe was discovered to have about a 1 sq. in. hole due to corrosion from the outside surface that was determined during excavation. The pipe was subjected to G-Scan, but due to determination of leakage in the CS-24, Exelon determined to replace the entire section of buried pipe. The entire section of the buried pipe portion is in the process of being replaced, and tested to assure integrity. The entire section of the buried pipe portion been replaced and tested to assure integrity.

CS-26: 1" x 30' Carbon Steel, Hotwell to Condensate pump seals. The line was excavated and hydrostatically tested to 75 psig. The line is only used to start the first condensate pump then isolated. Exelon perform additional limited UT on a portion of the pipe to verify structural integrity, based on concerns from the inspectors. The pipe was found to be acceptable for a one time use to support restart. The pipe was observed while in-service to start a condensate pump on 5/2 and no leakage was observed. The pipe has been isolated by a clearance which restricts future use. The long term plan is to perform a modification so that the pipe does not have to be buried.

CS-38: 1" x 30' Stainless Steel, CRD to CST minimum recirc line. Exelon plans to excavate and examine this portion of the system upon completion of other pipe remediation efforts, since excavation in this area would impact access to the area necessary for remediation of CS-25 and CS-24.

(b)(5)

Condensate Transfer Bldg (CTB) floor drain, 6" Carbon Steel. Boroscopic examination revealed in-leakage. Floor drain has been plugged to prevent any water intrusion from CTB. Long term plan to eventually replace.

Condensate Storage Tank. Exelon desludge and inspected the tank, including UT of tank bottom, by divers early next week. The tank bottom was replaced in 1991 and currently remains within expected service life. Inspection consisted on visual inspection and UT of 60 random points. All UT measurements were above nominal thickness.

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