

5.5 Programs and Manuals

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5.5.9 Steam Generator (SG) Tube Surveillance Program (continued)

- a) Primary-to-secondary tube leaks (not including leaks originating from tube-to-tube sheet welds) in excess of the limits of Specification 3.4.13, or
  - b) A seismic occurrence greater than the Operating Basis Earthquake, or
  - c) A loss-of-coolant accident requiring actuation of the Engineered Safety Features, or
  - d) A main steam line or feedwater line break.
- d. Acceptance Criteria
- 1. As used in this specification:
    - a) Imperfection means an exception to the dimensions, finish, or contour of a tube from that required by fabrication drawings or specifications. Eddy current testing indications below 20% of the nominal tube wall thickness, if detectable, may be considered as imperfections;
    - b) Degradation means a service-induced cracking, wastage, wear, or general corrosion occurring on either inside or outside of a tube;
    - c) Degraded Tube means a tube containing imperfections greater than or equal to 20% of the nominal wall thickness caused by degradation;
    - d) % Degradation means the percentage of the tube wall thickness affected or removed by degradation;
    - e) Defect means an imperfection of such severity that it exceeds the plugging limit. A tube containing a defect is defective;
    - f) Plugging Limit means the imperfection depth at or beyond which the tube shall be removed from service and is equal to 40% of the nominal tube wall thickness;

For Unit 2 during Refueling Outage 11 and the subsequent operating cycle, this definition does not apply to degradation

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identified in the portion of the tube below 17 inches from the top of the hot leg tubesheet. Degradation found in the portion of the tube below 17 inches from the top of the hot leg tubesheet does not require plugging.

For Unit 2 during Refueling Outage 11 and the subsequent operating cycle, degradation identified in the portion of the tube from the top of the hot leg tubesheet to 17 inches below the top of the tubesheet shall be plugged upon detection;

- g) Unserviceable describes the condition of a tube if it leaks or contains a defect large enough to affect its structural integrity in the event of an Operating Basis Earthquake, a loss-of-coolant accident, or a steam line or feedwater line break as specified in Specification 5.5.9.c.3.c, above;
- h) Tube Inspection means an inspection of the steam generator tube from the point of entry (hot leg side) completely around the U-bend to the top support of the cold leg; and

For Unit 2 during Refueling Outage 11 and the subsequent operating cycle, the portion of the tube below 17 inches from the top of the hot leg tubesheet is excluded;

- i) Preservice Inspection means an inspection of the full length of each tube in each steam generator performed by eddy current techniques prior to service to establish a baseline condition of the tubing. This inspection shall be performed prior to initial POWER OPERATION using the equipment and techniques expected to be used during subsequent inservice inspections.
2. The steam generator status shall be determined after completing the corresponding actions (plug in all tubes exceeding the plugging limit and all tubes containing through-wall cracks) required by Table 5.5.9-2.

e. Reports

The content and frequency of reports concerning the Steam Generator Tube Surveillance Program shall be in accordance with Specification 5.6.10.

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