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NOTES:
(1) The VE shall consist of the following:
   (a) A direct examination of the bare-metal surface of the entire outer surface of the head, including essentially 100% of the intersection of each nozzle with the head. If welded or bolted obstructions are present (i.e., mirror insulation, insulation support feet, shroud support ring/lug), the examination shall include ≥95% of the area in the region of the nozzles as defined in Figure 1 and the head surface uphill and downhill of any such obstructions. The examination may be performed with insulation in place using remote equipment that provides resolution of the component metal surface equivalent to a bare-metal direct examination.
   (b) The examination may be performed with the system depressurized.
   (c) The examination shall be performed with an illumination level and a sufficient distance to allow resolution of lower case characters not greater than 0.105 in. (2.7 mm) in height.
(2) Personnel performing the VE shall be qualified as a VT-2 visual examiner and shall have completed at least 4 hr of additional training in detection of borated water leakage from UNS N06600, UNS N06082 or UNS WB6182 components and the resulting boric acid corrosion of adjacent ferritic steel components.
(3) Examination may be performed with the system depressurized.
(4) If EDY < 8 and no flaws unacceptable for continued service under -3130 or -3140 have been detected, the reexamination frequency may be extended to every third refueling outage or 5 calendar years, whichever is less, provided an IWA-2212 VT-2 visual examination of the head is performed under the insulation through multiple access points in outages that the VE is not completed. This IWA-2212 VT-2 visual examination may be performed with the reactor vessel depressurized.
(5) If the examination area or volume requirements of Figure 2 cannot be met, the alternative requirements of Mandatory Appendix I shall be used and the evaluation shall be submitted to the regulatory authority having jurisdiction at the plant site.
(6) Volumetric or surface examinations shall be performed on essentially 100% of the required volume or equivalent surfaces of the nozzle tube, as identified by Figure 2. A demonstrated volumetric or surface leak path assessment through all J-groove welds shall be performed. For leaking penetrations, the meandering fluid stream pattern of the ultrasonic data display represents the leak path of the primary coolant from the pressure vessel to the atmosphere. If a surface examination is being substituted for a volumetric examination on a portion of a penetration nozzle that is below the toe of the J-groove weld (Point E in Figure 2) the surface examination shall be on the penetration nozzle inside and outside wetted surface.
Table A

Examination Categories: Class 1 Power Reactor Vessel Upper Head (Cont'd)

NOTES (CONT'D):

(7) If not previously performed, baseline volumetric and surface examinations shall be performed.
   (a) for plants with EDY > 12, at the next refueling outage,
   (b) for plants with EDY ≥ 8 and EDY ≤ 12, no later than the second refueling outage, or,
   (c) for plants with EDY < 8, no later than February 10, 2008.

(8) If flaws are attributed to PWSCC, whether or not acceptable for continued service in accordance with -3130 or -3140, the reinspection interval shall be each refueling outage. For reactor vessel heads with operating temperatures less than 570°F (300°C), the reinspection frequency shall be at least once every 36 months of operating time. Additionally, repaired areas shall be examined during the next refueling outage following the repair.

(9) Includes essentially 100% of surface or volume.

(10) For sister heads with similar operating conditions, the inspection requirements of Item No. B4.40 may be alternated among sister heads.
   (a) If no service-induced PWSCC indications are identified during an examination, the sister heads may be considered as having met the examination requirements of B4.40. The initial sister head examination shall be accomplished during the interval in which it is installed. The unexamined sister heads shall be examined during the next required B4.40 inspection interval. If more than two sister heads exist, the examinations of remaining sister heads shall be performed no sooner than two refueling outages following the previous reactor vessel head examination, and no reactor vessel head shall be operated more than 40 yr without examination. The intent is that the sister head examinations are spread over time and are alternated among the sister heads.
   (b) If examination results identify a service-induced PWSCC indication, all sister heads shall be examined during the next refueling outage in accordance with the visual examination requirements of Item B4.30, and a volumetric examination shall be performed within two refueling outages.

(11) If no flaws unacceptable for continued service under -3130 or -3140 have been detected in the second refueling outage following peening mitigation, the interval for performance of a VE may be extended to every third refueling outage, provided a VT-2 visual examination of the vessel head is performed under the insulation through multiple access points during refueling outages in which the VE is not completed. The VT-2 visual examination may be performed with the reactor vessel depressurized. The VE may be delayed one refueling outage so it can be performed in conjunction with the volumetric examination.

(12) In the second refueling outage following peening mitigation, an examination meeting the inspection requirements of [Note (6)] shall be performed.

(13) If flaws or relevant conditions are detected that are unacceptable for continued service in accordance with -3132.3, -3142.1(b), or -3142.1(c), they shall be corrected by repair/replacement activity of -3132.2 or -3142.3. The head or nozzle shall be identified as Item B4.10 or Item B4.20. If peening mitigation is performed, the head or nozzle may be identified as Item B4.50 or Item B4.60.

(14) If peening mitigation techniques qualified in accordance with Mandatory Appendix II are used, the following shall be met:
   (a) Volumetric examination of the volume (A-B-C-D) as identified in Figure 2 shall be performed prior to application of peening mitigation techniques. This examination shall be considered the preservice baseline examination.
   (b) Prior to peening mitigation, an examination meeting the inspection requirements of [Note (6)] shall be performed of each penetration capable of being examined.
   (c) As an alternative to (a) and (b), a surface examination of A-D and C-G may be performed and considered the preservice examination.
   (d) A documented evaluation shall be completed demonstrating that the peening mitigation techniques meet the performance criteria in Mandatory Appendix II.
   (e) Prior to peening, flaws detected during the pre-mitigation inspection shall be corrected by a repair/replacement activity of -3132.2.
   (f) The surfaces to be mitigated shall include the regions of the J-groove weld and penetration tubing (outside and inside) susceptible to PWSCC initiation and growth.

Replace "Power" with "PWR"