

State Change History

Initiate <input checked="" type="radio"/> by FROMM, BRAD	AR Pre-Screen 5/21/2004 11:44:30 Owner (None)	Submit to Screening Team <input checked="" type="radio"/> by HARPER, RON	AR Screening Que 5/21/2004 18:43:11 Owner PBNP CAP AdmIn	Screening Update <input checked="" type="radio"/> by KREIL, JULIE	AR Screening Que 5/24/2004 10:05:25 Owner BENNETT, KEVIN
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Section 1

Activity Request Id: CAP056890
 Activity Type: CAP Submit Date: 5/21/2004 11:44:30

One Line Description: Potentially missed Section XI Unit 1 RPV Weld Inspection

Detailed Description: 5/21/2004 11:44:30 - FROMM, BRAD:
 The PBNP Unit 1 Reactor Vessel lower head was formed from plate material. During manufacture it was discovered that the lower head was not formed within the requisite hemispherical geometric tolerances. To provide a lower head that met the hemispherical geometric requirements, significant material was removed (by grinding) in certain locations, and replaced (by welding) in other locations. The repairs involved two areas, each starting ~ 8-inches below the upper edge of the lower head, ~ 180 degrees apart, each ~ 5 to 6 feet in length, each ~ 3 feet in width, and each ~ 2-3/4 inches in depth (note the original plate thickness was ~ 4-1/2 inches). Reference the B&W manufacturing records, as well as the SWRI manufacturing audit report.

ASME Section XI (1998 with Addenda through 2000), Table IWB-2500-1, Category B-A, Item No. B1.50 requires volumetric inspection of repair welds. The table clarifies repair welds with a note, "Material (base metal) weld repairs where repair depth exceeds 10% nominal of the vessel wall".

The PBNP - Unit 1 Inservice Inspection Schedule Class 1 Components (dated 05/29/03) does not identify any RPV lower head base metal weld repair areas for inspection.

There does not appear to be any Relief Requests associated with justifying not performing this exam.

Initiator:	(None)	Initiator Department:	(None)
Date/Time of Discovery:	5/21/2004 11:32:10	Date/Time of Occurrence:	5/21/2004 11:32:10
Identified By:	Site-Identified	System:	RC PB
Equipment # (1st):	(None)	Equipment Type (1st):	(None)
Equipment # (2nd):	(None)	Equipment Type (2nd):	(None)
Equipment # (3rd):	(None)	Equipment Type (3rd):	(None)
Site/Unit:	Point Beach - Unit 1		

Why did this occur?: 5/21/2004 11:44:30 - FROMM, BRAD:
 Unknown. This is a historic issue. The value of determining the actual cause at this time is questionable. The cause is probably associated with the evolution ASME Section XI, and the difficulty in retrieving manufacturing information at PBNP.

Immediate Action Taken: 5/21/2004 11:44:30 - FROMM, BRAD:
 Initiated this document.

Recommendations: 5/21/2004 11:44:30 - FROMM, BRAD:
 Determine if a manufacturing base metal weld repair qualifies as a base metal weld repair for the purpose of Table IWB-2500-1, Category B-A, Item No. B1.50.

Update the ISI program documents, as necessary.

Perform the examination or obtain relief from the requirement for performing the exam.

Notify Me During Eval?: N SRO Review Required?: Y

Section 2

Operability Status: Operable Compensatory Actions: N
 Basis for Operability: 5/21/2004 18:43:11 - HARPER, RON:
 Unit 1 is currently in MODE 6, RCS open to atmosphere.

G-40

Mode 4 restraint. Need resolution prior to leaving cold shutdown MODE 5.

☑ Unplanned TSAC Entry: N ☑ External Notification: N


☐ Section 3

Screened?: Y ☑ Significance Level: C
INPO OE Req'd?: N Potential MRFF?: N
☑ QA/Nuclear Oversight?: N ☑ Licensing Review?: N
Good Catch/Well Doc'd?: NA



☐ Section 4

Inappropriate Action:
Process: (None) Activity: (None)
Human Error Type: (None) Human Perf Fail Mode: (None)
Equip Failure Mode: (None) Process Fail Mode: (None)
Org/Mgt Failure Mode: (None) ☑ Group Causing Prob: (None)
Hot Buttons: (None)

☐ Notes/Comments

Section XI requirements by TURNER, RUSSELL (5/21/2004 22:58:00) 
ASME Section XI, examination category B-A, item no. B1.51, requires Reactor Vessel repair welds in the bellline region to be examined volumetrically once every ten years. The repairs noted in this CAP are located in the lower head, which is outside the bellline region.

☐ Attachments and Parent/Child Links

 Principal to CE014081: ** U1R28 MODE RESTRAINT 4 ** Potentially missed Sect XI U1 RPV Weld Inspection by KREIL, JULIE (5/24/2004 10:07:27) 

☐ Change History

5/24/2004 10:05:25 by KREIL, JULIE
CAP Admin Changed From ***** To *****
Owner Changed From ***** To *****
Last Modified Date Changed From ***** To *****
Last Modifier Changed From ***** To *****
5/24/2004 10:05:28 by KREIL, JULIE
Last Modified Date Changed From ***** To *****
original_project_id Changed From ***** To *****
original_issue_id Changed From ***** To *****
5/24/2004 10:07:27 by KREIL, JULIE
Last Modified Date Changed From ***** To *****
Attachment Added: Principal to CE014081: ** U1R28 MODE RESTRAINT 4 ** Potentially missed Sect XI U1 RPV Weld Inspection