

TABLE 4  
CALCULATIONS REVIEWED  
(SHEET 3 OF 3)

<u>Number</u>	<u>Title Description</u>	<u>NRC Reviewed For (SEE NOTE 1)</u>	<u>ART Review</u>	<u>Findings/Comments</u>
1K3-1217-182-01	Stress Calculation X4CB-7024	Adequate disposition of Finding 4-56. See M-FCRB-8786 (Table 6.2-5)	Yes	Satisfactory movement is insignificant at location in question.

Notes:

1. ART checklist referenced is Figure 6.1-1 as included in the GPC Module 4 Report.

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TABLE 5  
 DRAWINGS AND DRAWING CHANGE NOTICES (DCN) REVIEWED  
 (SHEET 1 OF 4)

Number (Rev. - Date)	Title/Description	NRC Reviewed For (SEE NOTE 1)	RRT Review	Findings/Comments
Fabrication Isometric 1K3-1205-003-01 (Rev. 24, 2/18/84)	RHR Auxiliary Building Areas 3E and 3G, Level D	Assessed RRT checklist (Fig. 6.1-2) and check- list performance by reviewing drawing and RRT entries for checklist items with RRT member who performed original review.	Yes	Checklist used by RRT member resulted in cursory review. Also, NRC performance of a checklist item the RRT considered not applicable resulted in identification of ISO nonconformance with the DC. (See text)
DCN-R No. 8 (11/21/84)		Assessed RRT checklist (Fig. 6.1-3) and check- list performance by reviewing drawing and RRT entries for checklist items with RRT member who performed original review.	Yes	Checklist and RRT under- standing and application of it appeared satis- factory.
DCN-R No. 11 (10/22/84)		Assessed RRT checklist (Fig. 6.1-3) and check- list performance by reviewing drawing and RRT entries for checklist items with RRT member who performed original review.	Yes	Checklist and RRT under- standing appeared satis- factory for this DCN. However, the first and possibly most significant checklist item entry was an incorrect verification that the DCN was in compliance with DC-2702. See text.
P&ID 1X4DB122 (Rev. 13, 1/22/85)	RHR System, System No. 1205	Assessed RRT checklist (Fig. 6.1-2) and check- list performance by reviewing drawing and RRT entries for check- list items with RRT member who performed original review.	Yes	Checklist used by RRT member resulted in cursory review. See text.
DCN Nos. 1 through 32		Proper incorporation of previous DCNs in drawing Rev. 13. See other review for individual DCN 20 below.	No	NRC review found that the DCN changes appeared to have been satisfactorily handled.

TABLE 5

DRAWINGS AND DRAWING CHANGE NOTICES (DCN) REVIEWED  
(SHEET 2 OF 4)

Number (Rev. - Date)	Title/Description	NRC Reviewed For (SEE NOTE 1)	RRT Review	Findings/Comments
DCN No. 20		Assessed RRT checklist (Fig. 6.1-3) and checklist performance by reviewing drawing and RRT entries for checklist items with RRT member who performed original reviews. Also, checked (but did not review for accuracy) that checklists for DCNs 9, 16, 19, and 22 appeared satisfactorily performed by RRT.	Yes	Satisfactory. RRT review appeared thorough and useful. Checklists for DCNs 9, 16, 19, and 22 were reviewed and entries indicated they were also thorough reviews.
PAID 1X4DB122 (Rev. 15)	RHR System, System No. 1205	Basic design conditions from LDL.	No	Satisfactory
DCN-S to Vendor Dwg. 1X4AH04-23-12	RHR system isolation valve encapsulation vessel	Assessed RRT checklist (Fig. 6.1-3) and checklist performance by reviewing drawing and RRT entries for checklist items with RRT member who performed original review.	Yes	Checklist and understanding of its use appeared satisfactory for this DCN. This was a very simple (DCN) change and not likely to have resulted in error. This was the only DCN-S reviewed by RRT.
Fabrication Isometric 1K3-1205-004-01 (Rev. 17)	RHR Aux. Bldg., Area 3E, Level D	Basic design conditions from LDL	Yes	Satisfactory
DCN #1 DCN #2 DCN #3 DCN-R #4 DCN-R #5 DCN-R #6 DCN-R #7		RRT checklist items	No	Satisfactory
		RRT checklist items	No	Satisfactory
		RRT checklist items	No	Satisfactory
		RRT checklist items	No	Satisfactory
		RRT checklist items	No	Satisfactory
		RRT checklist items	No	Satisfactory
Fabrication Isometric 1K3-1205-006-02 (Rev. 7)	RHR Aux. Bldg., Area 3E, Level D	Basic design conditions from LDL	Yes	Satisfactory
DCN-R #1		RRT checklist items	No	Satisfactory

TABLE 5

DRAWINGS AND DRAWING CHANGE NOTICES (DCN) REVIEWED  
(SHEET 3 OF 4)

<u>Number</u> <u>(Rev. - Date)</u>	<u>Title/Description</u>	<u>NRC</u> <u>Reviewed For</u> <u>(SEE NOTE 1)</u>	<u>RRT Review</u>	<u>Findings/Comments</u>
Fabrication Isometric 1K3-1205-019-02 (Rev. 6)	RHR Aux. Bldg., Area 3E, Level D	Basic design conditions from LDL	Yes	Design condition max pressure is incorrect.
DCN #1		RRT checklist items	No	Satisfactory
DCN-R #2		RRT checklist items	No	Satisfactory
DCN-R #3		RRT checklist items	No	Satisfactory
PaID 1X4DB134 (Rev. 14)	Nuclear Service Cooling Water System - System No. 1202	Basic design conditions from LDL	Yes	Satisfactory (See Note 2)
PaID 1X4DB135 (Rev. 16)	Nuclear Service Cooling Water System - System No. 1202	For support of associated Fab. 150.	Yes	Satisfactory (See Note 3)
Fabrication Isometric 1K3-1202-110-02, (Rev. 10)	NSCW Aux. Bldg., Area 3E, Level D	Basic design conditions from LDL	No	Satisfactory
DCN #1		RRT checklist items	No	Satisfactory
DCN #2		RRT checklist items	No	Satisfactory
DCN #3		RRT checklist items	No	Satisfactory
DCN-R #4		RRT checklist items	No	Satisfactory
DCN #5		RRT checklist items	No	Satisfactory
DCN-R #6		RRT checklist items	No	Satisfactory
DCN-R #7		RRT checklist items	No	Satisfactory
DCN-R #10		RRT checklist items	No	Satisfactory
DCN-R #11		RRT checklist items	No	Satisfactory
DCN-R #12		RRT checklist items	No	Satisfactory
DCN-R #13		RRT checklist items	No	Satisfactory
DCN-R #14		RRT checklist items	No	Satisfactory
Fabrication Isometric 1K3-1202-111-02 (Rev. 4)	NSCW Aux. Bldg., Area 3E, Level D	Basic design conditions from LDL	Yes	Satisfactory
DCN #1		RRT checklist items	No	Satisfactory
DCN #2		RRT checklist items	No	Satisfactory
DCN #3		RRT checklist items	No	Satisfactory
DCN #4		RRT checklist items	No	Satisfactory
DCN #5		RRT checklist items	No	Satisfactory
DCN #6		RRT checklist items	No	Satisfactory
DCN-R #7		RRT checklist items	No	Satisfactory
DCN-R #8		RRT checklist items	No	Satisfactory

TABLE 5  
 DRAWINGS AND DRAWING CHANGE NOTICES (DCN) REVIEWED  
 (SHEET 4 OF 4)

<u>Number</u> <u>(Rev. - Date)</u>	<u>Title/Description</u>	<u>NRC</u> <u>Reviewed For</u> <u>(SEE NOTE 1)</u>	<u>RRT Review</u>	<u>Findings/Comments</u>
Fabrication Isometric 1KA-1202-001-04 (Rev. 7)	NSCW-Containment Bldg., Areas 4A, 4B, & 4C, Level A	For conformance with associated P&ID	Yes	Satisfactory.

- NOTES:
1. RRT checklists referenced are Figure 6.1-2 and Figure 6.1-3 as included in the GPC Module 4 Report.
  2. Listed in Module 4, Table 6.1-5 as drawing reviewed for procedural compliance. Thirty-seven associated DCNs were also reviewed by RRT for procedural compliance.
  3. Listed in Module 4, Table 6.1-2 for additional verification of commitment 4917 (NSCW valves and piping inside containment area ASME Class 2).

TABLE 6  
**CONSTRUCTION PROCEDURES REVIEWED**  
(SHEET 1 OF 2)

<u>Procedure Number</u>	<u>Title</u>	<u>NRC Reviewed For</u>	<u>RRT Review</u>	<u>Findings/Comments</u>
PPP 11-2 (6/26/84)	Levels I and II Nondestructive Examination Personnel Control, and Administration of Training, Examination, Qualification and Certification.	As listed in Inspection Report 84-36.	Yes	Satisfactory
PPP 111-4 (10/11/84)	Drawing and Design Control Procedure.	As listed in Inspection Reports 84-30, 85-03, and 85-08.	Yes	Satisfactory (See Note 1)
PPP VI-5 (3/22/84-PCNI)	Control of Process Sheets and Weld Rod Requisition.	As listed in Inspection Reports 85-15 and 85-40.	Yes	Satisfactory
PPP VII-2 (10/3/84)	Material Control	As listed in Inspection Reports 85-08 and 85-14.	Yes	Procedural compliance unsatisfactory (VIOL 85-08-02) Procedure satisfactory.
PPP IX-K-1-W77 (9/28/77)	Magnetic Particle Examination Procedure Continuous Prod Method, Winter 1977 Addenda.	As listed in Inspection Report 84-36.	No	Satisfactory
PPP IX-PT-1-W77 (6/29/84) (12/3/84)	Penetrant Examination Procedure to ASME Section III, Winter 1977 Addenda.	As listed in Inspection Reports 84-36 and 85-14.	No	IFI 85-14-01, Procedure Clarification.
PPP IX-RT-W77 (6/28/84)	Radiographic Procedure IR-192 Butt Welded Pipe, Winter 1977 Addenda.	As listed in Inspection Report 84-36.	No	Satisfactory
PPP IX-UT-1-W77 (4/2/82)	Ultrasonic Examination of Weldments, Winter 1977 Addenda.	As listed in Inspection Report 84-36.	No	Satisfactory
PPP IX-UT-2-W77 (12/18/81)	Ultrasonic Examination of Seamless and Welded Tubular Material, Winter 1977 Addenda.	As listed in Inspection Report 84-36.	No	Satisfactory
PPP IX-3 (7/18/84) (7/20/85)	Fabrication and Field Installation Specifications for Nuclear Power Plant Components, Piping Systems and Appurtenances, ASME Section III, Winter 1977 Addenda.	For conformance with ASME and as listed in Inspection Report 85-40.	Yes	IFI 85-40-01, Procedure Clarification.
PPP IX-16 (11/30/83)	Cold Bending of 2" NPS Smaller Nuclear and B31.1 Pipe.	As listed in Inspection Report 85-14.	Yes	Satisfactory

**TABLE 6**  
**CONSTRUCTION PROCEDURES REVIEWED**  
(SHEET 2 OF 2)

<u>Procedure Number</u>	<u>Title</u>	<u>NRC Reviewed for</u>	<u>RRT Review</u>	<u>Findings/Comments</u>
PPP IX-19 (8/24/84)	Requirements for Alignment and Fitup	As listed in Inspection Report 85-14.	Yes	Satisfactory
PPP IX-64 (8/29/84)	Control of Piping Spool Closures	As listed in Inspection Report 85-14.	Yes	Satisfactory
PPP X-11 (5/31/82)	Visual Examination	As listed in Inspection Report 85-14.	Yes	Satisfactory
PPP X-18 (2/2/84) (7/16/84-PCN1)	Field Welding Inspection	As listed in Inspection Reports 84-30, 85-03, 85-08, and 85-14.	Yes	Satisfactory
PPP XV-2 (7/11/84)	Procedure for Handling Nonconformances (FIELD)	As listed in Inspection Reports 84-30, 85-03, 85-08, and 85-14.	Yes	Procedural Compliance unsatisfactory (VIOL 84-30-02) Procedure satisfactory.
PPP XV-4 (4/26/84) (1/9/85)	Hold Tag Usage	As listed in Inspection Reports 84-30, 85-03, 85-08 and 85-14.	Yes	Procedural Compliance unsatisfactory (VIOL 84-30-02) Procedure satisfactory.
PPP-GWS III/1 (12/14/84) (4/15/85)	General Welding Standard	As listed in Inspection Reports 85-14 and 85-40.	Yes	Procedure compliance unsatisfactory (VIOL. 85-40-03) Procedure satisfactory.
PPP "Nuclear Quality Assurance Program Manual, ASME Section III, Division I, (8/29/84)	-Section I-Organization -Section IX-Control of Processes -Section V-Instructions, Procedures, and Drawings	As listed in Inspection Report 85-14.	No	Satisfactory

**NOTE:**

1. See Violations 424, 425/84-30-01 and 85-03-01 (unsatisfactory procedural conformance to upper-tier Bechtel Specification PRM, Part C, Section 4, Rev. 3).

TABLE 1

## FIELD CHANGE REQUESTS (FCR) REVIEWED

<u>Number</u>	<u>Title/Description</u>	<u>NRC Reviewed for (SEE NOTE 1)</u>	<u>RRT Review (See Note 2)</u>	<u>Findings/Comments</u>
N-FCRB-3854	RHR System FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3310F	RHR System	RRT checklist items	NO	Satisfactory
N-FCRB-6665	RHR System	RRT checklist items	NO	Satisfactory
N-FCRB-125F	RHR System	RRT checklist items	NO	Satisfactory
N-FCRB-3095	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3507	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3679	NSCW System, FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-5699	NSCW Aux. Bldg., Area 3E, Level D	RRT checklist items	NO	Satisfactory
N-FCRB-286F	NSCW System, FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3452F	NSCW System	RRT checklist items	NO	Satisfactory
N-FCRB-3493F	NSCW System, FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-2987	NSCW FAB ISO, Aux. Bldg., Area 3E, Level D	RRT checklist items	NO	Satisfactory
N-FCRB-3098	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3863	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3852	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-8373	NSCW FAB ISO	RRT checklist items	Yes	Satisfactory
N-FCRB-1251F	NSCW FAB ISO	RRT checklist items	NO	Satisfactory
N-FCRB-3451F	NSCW System	RRT checklist items	NO	Satisfactory
N-FCRB-8786	ACCW System	Adequate disposition of finding 4-56.	NO	Satisfactory

NOTE:

1. RRT checklist referenced is Figure 6.1-5 as included in the GPC Module 4 Report.
2. "Yes" indicate the FCR was reviewed by the RRT as well as the NRC inspectors.  
"No" indicates the FCR was only reviewed by NRC inspectors.



TABLE 8

## NONCONFORMANCE REPORTS (NCR) AND DEVIATION REPORTS (DR) REVIEWED

<u>Number</u>	<u>RRT Reviewed</u>	<u>NRC Reviewed for</u>	<u>Findings/Comments</u>
NCR 1305	Yes	RRT Checklist	Satisfactory
NCR 1340	Yes	RRT Checklist	Satisfactory
NCR 1396	Yes	RRT Checklist	Satisfactory
NCR 2501	Yes	RRT Checklist	Satisfactory
NCR 2564	Yes	RRT Checklist	Satisfactory
NCR 3150	Yes	RRT Checklist	Satisfactory
NCR 4041	Yes	RRT Checklist	Satisfactory
NCR 4372	Yes	RRT Checklist	Satisfactory
NCR 6328	Yes	RRT Checklist	Satisfactory
NCR 6354	Yes	RRT Checklist	Satisfactory
DR 6386	Yes	RRT Checklist	Satisfactory
DR 6393	Yes	RRT Checklist	Satisfactory
DR 6904	Yes	RRT Checklist	Satisfactory
DR 6999	Yes	RRT Checklist	Satisfactory
DR 7578	Yes	RRT Checklist	Satisfactory
DR 7837	Yes	RRT Checklist	Satisfactory
DR 7904	Yes	RRT Checklist	Satisfactory
DR 7917	Yes	RRT Checklist	Satisfactory
DR 7962	Yes	RRT Checklist	Satisfactory
DR 7975	Yes	RRT Checklist	Satisfactory
DR 7999	Yes	RRT Checklist	Satisfactory
DR 8112	Yes	RRT Checklist	Satisfactory
DR 8113	Yes	RRT Checklist	Satisfactory
DR 8606	Yes	RRT Checklist	Satisfactory
DR 8650	Yes	RRT Checklist	Satisfactory
DR 9348	Yes	RRT Checklist	Satisfactory
DR 9389	Yes	RRT Checklist	Satisfactory
DR 8341	No	RRT Checklist	Satisfactory

## NOTES:

1. The NRC reviewers examined the above NCRs and DRs to the same criteria used by the GPC RRT. Specifically, this was the criteria in Module 4 report checklist Figure 6.1-6.
2. Thirty six DRs in addition to the above were reviewed as described in NRC Report 424/84-36. One of them, DR 6997, was a DR reviewed by the RRT.

TABLE 9

## PROCUREMENT SPECIFICATIONS AND VENDOR DRAWINGS REVIEWED

<u>Specification or Drawing Number</u>	<u>Title/Description</u>	<u>NRC Reviewed For</u>	<u>RRT Review</u>	<u>Findings/Comments</u>
Specification X4AH04 (Rev. 8, 6/15/84)	Shop Fabrication of Atmospheric Tanks built to ASME III/RHR System NO Valve.	RRT checklist items. Assessed RRT checklist (Fig. 6.1-7) and checklist performance by reviewing specification and RRT checklist item entries with RRT member who performed RRT review.	Yes	RRT review considered inadequate. Checklist items 2, 4, 7, 8, 11, 12, and 13 were inadequately specified and/or performed. NRC inspectors identified apparent improperly specified or omitted requirements in specification X4AH04 involving failures to specify ANSI N45.2.11 and RC 1.4a requirement and omission of units on specified radiation levels.
Vendor Drawing 1X4AH04-23-13 (9/17/81)	RHR Isolation Valve Encapsulation Vessel	RRT checklist items Assessed RRT checklist (Fig. 6.1-8) and checklist performance by reviewing vendor drawing and RRT checklist item entries with RRT member who performed review.	Yes	RRT review considered inadequate. No significant checklist items were completed by RRT. Some checklist items which could have been verified were marked not applicable or not marked at all. One checklist item was incorrectly verified. The vendor drawing was partially illegible.

TABLE 10  
**READINESS REVIEW MECHANICAL DESIGN TEAM READINESS  
 INFORMATION REQUESTS REVIEWED**

<u>Request Number</u>	<u>Information Requested</u>	<u>Resolution/Project Response</u>	<u>NRC Reviewed For</u>	<u>NRC Findings/Comment</u>
4-28	DC-1205, Table 1 identifies Westinghouse as providing check valves larger than 2". DCN 9 to the RHR P&ID incorporates Bachtel supplied 1 1/2" check valves 122 and 123. A change to DC-1205 is recommended.	The change is already documented in DC-1204 which is referenced from DC-1205. No corrective action required.	Adequacy of response (NRC inspectors verified project response by review of DC-1204.)	Satisfactory
4-1	FSAR Section 6.3.1 states that the elevated temperature of the containment sump solution (in accident condition) is within the design temperature of ECCS components. Provide the elevated temperature calculation (for verification).	A curve generated from the calculation provided. The temperature is the by product of a LOCA. The curve is for equipment qualification, not design.	Adequacy of response (NRC inspectors verified curve referenced.)	Satisfactory

TABLE 11

## READINESS REVIEW MECHANICAL DESIGN TEAM FINDINGS REVIEWED

<u>RRT Finding Number</u>	<u>RRT Finding</u>	<u>Level/ Category</u>	<u>Resolution/ Project Response</u>	<u>NRC Reviewed for</u>	<u>NRC Findings/Comment</u>
4-75	Five arbitrary intermediate break locations deleted. Inconsistent with Design Criteria.	III	HELB DC 1018 in revision project to status charges weekly to prevent recurrence.	Adequacy of resolution and revision to DC-1018	Resolution inadequate in identification of follow-on commitment on relaxed requirements to Commitments related to STP NEB 3-1
4-85	Cover page for X4AH04 specification and technical provisions do not give proper Project Class for RHR Isolation Valve Encapsulation Tank.	III	Specification cover page was corrected. Other equipment specifications were checked and found to have correct Project Classes. Tank requirements specified were satisfactory.	NRC inspectors examined adequacy of corrective action including action to determine if condition was an isolated incident.	Verified original condition was not a safety concern. Found additional examples of documents with incorrectly specified Project Classes - none appeared to be a safety concern.

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 1 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See note 1)	
<u>1K3-1205-003-01 R/26</u>					
Residual Heat Removal, Fabrication isometric, Aux. Bldg. Areas 3E & 3G, Level D					
<u>RHR MOV Encapsulation Vessel</u> <u>V1-1205-V4-001</u>	NO	YES - See Table 12-1	NO	YES - See Table 12-1	Apparent discrepancies in hardware. See Table 12-1 and text.
<u>Piping Materials</u>					
Spool Piece 003-S-08	NO	YES - See Table 12-2	NO	NO	Satisfactory
Spool Piece 028-S-01	NO	YES - See Table 12-2	NO	YES - See Table 12-2	Satisfactory
Spool Piece 061-S-01	NO	YES - See Table 12-2	NO	NO	Satisfactory
Piping Material (for spool piece 061-S-01) HN L4245	-	-	-	YES - Certification per Code	Satisfactory
<u>Field Welds</u>					
028-W-01 and Repair 3	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
061-W-01	NO	YES - Code Visual Req.	NO	NO	Satisfactory
003-W-01	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
028-W-02A	NO	YES - Code Visual Req.	NO	NO	Satisfactory
028-W-02B	NO	YES - Code Visual Req.	NO	NO	Satisfactory
003-W-01	NO	YES - Code Visual Req.	NO	NO	Satisfactory
003-W-02	NO	YES - Code Visual Req.	NO	NO	Satisfactory
003-W-03	NO	YES - Code Visual Req.	NO	YES - Verified the Qualification of Welder Identified in Walkdown	Satisfactory
061-W-03	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	See note 2
061-W-03A	NO	YES - Code Visual Req.	NO	NO	Satisfactory
061-W-04	NO	YES - Code Visual Req.	NO	NO	Satisfactory
061-W-02	NO	YES - Code Visual Req.	NO	NO	Satisfactory
061-W-02A	NO	YES - Code Visual Req.	NO	NO	Satisfactory
061-W-01	NO	YES - Code Visual Req.	NO	NO	Satisfactory
<u>Welding Materials</u> (two selected for above welds)					
ER 308L, HN 05394	-	-	-	YES - Certifications per Code	Satisfactory
and HN HHO17	-	-	-	YES - Certifications per Code	Satisfactory
<u>Other</u>	-	-	-	-	See note 3

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 2 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See note 1)	
<b>1K3-1205-004-01 R/17</b>					
Residual Heat Removal, Fabrication Isometric, Aux. Bldg. Area 3E, Level D.					
<u>Piping Materials</u>					
Spool Piece					
004-S-01 (14")	NO	YES - Code Visual Req.	NO	YES - See Note 6	Satisfactory
004-S-03 (14")	NO	YES - Code Visual Req.	NO	YES - See Note 6	Satisfactory
004-S-04 (14") (Heat No. 6714 (All 3))	NO	YES - Code Visual Req.	NO	YES - See Note 6	Satisfactory
<u>Field Welds</u>					
004-W-01	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
004-W-02C	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
004-W-02D	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
004-W-03	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
<u>Welding Materials</u>					
1/8" E308L HN: 2598252	NO	NO	NO	YES - See Note 7	Satisfactory
1/16" ER308L HN: 26245	NO	NO	NO	YES - See Note 7	Satisfactory
3/32" ER308L HN: 05394	NO	NO	NO	YES - See Note 7	Satisfactory
1/8" ER308L HN: 05394	NO	NO	NO	YES - See Note 7	Satisfactory
3/32" E308L HN: HH010	NO	NO	NO	YES - See Note 7	Satisfactory
3/32" E308L HN: HH011	NO	NO	NO	YES - See Note 7	Satisfactory
3/32" E308L HN: 2598267	NO	NO	NO	YES - See Note 7	Satisfactory

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 3 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See note 1)	
<b>1K3 - 1205-006-02 R/T</b>					
Residual Heat Removal, Fabrication Isometric, Aux. Bldg., Area 3E, Level D					
<u>Piping Materials</u>					
1205-026-3/4" HN: 464276	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
1205-006-2" HN: 465158	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Valves</u>					
054 SN: H749AAN	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
018 SN: H031AAN	NO	YES - Code Visual Req.	NO	YES - See Note 7	Code stamped name- plate was missing from valve.
<u>Field Welds</u>					
006-W-102	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
006-W-103	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
006-W-104	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
006-W-105	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
006-W-106	NO	YES - Code Visual Req.	NC	YES - Used RRT Checklist	Satisfactory
006-W-107	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
026-W-107	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 4 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See note 1)	
<u>1K3-1205-019-02 R/6</u>					
Residual Heat Removal, Fabrication Isometric, Aux. Bldg., Area 3E, Level D					
<u>Piping Materials</u>					
1205-019-2" (Between welds 019-W-111 and 019-W-101) HN: 466294	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Pipe Fittings</u>					
90° Elbow 2" (Between welds 019-W-002 and 019-W-003) HN: JJ	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Valve</u>					
003 SN: H739AAN	NO	YES - Code Visual Req.	NO	YES - See Note 6	Satisfactory
<u>Field Welds</u>					
019-W-101	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
019-W-102	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
019-W-103	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
019-W-104	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
019-W-106	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
019-W-109	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory



TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 5 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See note 1)	
<u>1K3-1202-110-02 R/10</u>					
Nuclear Service Cooling Water Fabrication Isometric (NSCW) Aux. Bldg., Area 3E, Level D					
<u>Piping Materials</u>					
1202-377-2" (From RHR Pump to Tee)	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
1202-110-2" (From RHR Pump to Valve 096) HN: 465158	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Pipe Fittings</u>					
90° Elbow 2" (Between welds 110-W-137 and 110-W-138) HN: GA	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Valve</u>					
096 SN: H30SAAR	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Field Welds</u>					
110-W-135	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-136	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-137	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-138	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-139	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-144	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory
110-W-149A	NO	YES - Code Visual Req.	NO	YES - Used RRT Checklist	Satisfactory

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 6 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings
	RRT	NRC	RRT	NRC (See Note 1)	
<b>1K3-1202-111-02 R/15</b>					
Nuclear Service Cooling Water, Fabrication Isometric, Aux. Bldg, Area 3E, Level D					
<u>Piping Materials</u>					
1202-376-2" (Between weld 111-W-167C valve 099) HN: 465158	YES	YES - Code Visual Req.	YES	YES - See Note 7	Satisfactory
<u>Valve</u>					
099 SN: M432AAT	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory
<u>Pipe Fittings</u>					
90° Elbow (Between welds 111-W-168 and 111-W-169) HN: EA	YES	YES - Code Visual Req.	YES	YES - See Note 7	Satisfactory
2" x 3/4" SWAG (Between valve 099 and weld 111-W-169) HN: M5487	NO	YES - Code Visual Req.	NO	YES - See Note 7	Satisfactory

TABLE 12

INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 7 OF 9)

Equipment/Piping Identification	Hardware Inspection			Records Review			Comments/Findings
	RRT	NRC		RRT	NRC	(See note 1)	
Nuclear Service Cooling Water, Fabrication Isometric, Aux. Bldg, Area 3E, Level D							
<u>Field Welds</u>							
111-W-167-D	YES	YES	- Code Visual Req.	YES	YES	- Used RRT Checklist	Satisfactory
111-W-168	YES	YES	- Code Visual Req.	YES	YES	- Used RRT Checklist	Satisfactory
111-W-169	NO	YES	- Code Visual Req.	NO	YES	- Used RRT Checklist	Wrong HN recorded for 2" x 3/4" SWAG on weld process sheet for weld 111-W-169
111-W-170	NO	YES	- Code Visual Req.	NO	YES	- Used RRT Checklist	Satisfactory
111-W-146	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-145	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-179	YES	YES	- Used RRT Checklist	YES	NO		Satisfactory
111-W-181	YES	YES	- Used RRT Checklist	YES	NO		Satisfactory
111-W-182	YES	YES	- Used RRT Checklist	YES	NO		Satisfactory
111-W-183	YES	YES	- Used RRT Checklist	YES	NO		Satisfactory
111-W-180	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-144	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-143	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-142	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-141	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory (See Note 4)
111-W-175	YES	YES	- Used RRT Checklist	YES	NO		Satisfactory
111-W-140	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-139	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory (See Note 4)
111-W-138	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-137	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-136	YES	YES	- Used RRT Checklist	YES	YES	- Used RRT Checklist	Satisfactory
111-W-135	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-134	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-133	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-132	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-131	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-130	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-129	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-128	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory
111-W-127B	NO	YES	- Used RRT Checklist	NO	YES	- Used RRT Checklist	Satisfactory

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INSPECTION AND RECORDS REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 8 OF 9)

Equipment/Piping Identification	Hardware Inspection		Records Review		Comments/Findings		
	RRT	NRC	RRT	NRC (See note 1)			
<b>1K4-1202-001-04 R/7</b>							
Nuclear Service Cooling Water, Fabrication Isometric, Containment Bldg., Areas 4A, 4B, and 4C, Level A							
<b>Field Welds</b>							
001-W-11	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-W-21A	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-W-22	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-W-23	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-W-24	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-W-25	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
<b>Spool Pieces</b>							
001-S-24	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-S-25	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
001-S-25 PCI	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory (See Note 5)
001-S-26	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory (See Note 5)
001-S-27	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory (See Note 5)
001-S-28	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
<b>MAJOR MECHANICAL EQUIPMENT</b>							
<b>RHR Heat Exchanger</b>							
1-1205-E6-001	YES	YES - Used	RRT Checklist	YES	YES - Used	RRT Checklist	Satisfactory
<b>CVCS Positive Displacement PUMPS</b>							
1-1208-P6-001	YES	YES - Used	RRT Checklist	NO	NO		Satisfactory
<b>NSCW Train A Pumps</b>							
1-1202-P4-001	NO	YES - Used	RRT Checklist	NO	YES - Used	RRT Checklist	Unsatisfactory Inadequate Preventive Maintenance (VIO 85-40-03)
1-1202-P4-003	NO	YES - Used	RRT Checklist	NO	YES - Used	RRT Checklist	
1-1202-P4-005	NO	YES - Used	RRT Checklist	NO	YES - Used	RRT Checklist	

TABLE 12

INSPECTION AND RECORDS: REVIEW FOR INSTALLED MECHANICAL EQUIPMENT AND PIPING  
(SHEET 9 OF 9)

NOTES:

1. RR Checklists referenced are Figure 6.2-1, Figure 6.2-2, Figure 6.2-5 and Figure 6.2-6 as included in the GPC Module & RR report.
2. One minor deficiency was identified - a revision number had been improperly corrected on a process sheet. The revision should have been lined thru, initialed and dated and the correction entered. Instead the revision was corrected in a manner such that it was not apparent a correction had been made. This appeared a rather isolated case and was judged to have no safety significance.
3. The NRC reviewer found a sketch in with the other records reviewed that indicated that the bellows expansion joint on the valve encapsulation vessel would be jacked out to facilitate fitup and welding of a piping piece between the containment wall and encapsulation vessel. The reviewer questioned whether this jacking had been properly engineered and approved. Licensee personnel informed him that it had. The reviewer identified verification of the engineering and approval as an inspector followup item.
4. Hardware inspection confirmed corrective action in response to RRF-4-46 (mis-stencilled welds)
5. Hardware inspection confirmed corrective action in response to RRF-4-45 (Arc strikes)
6. Verified that records included Code Data Report and Receipt Inspection Report required by construction procedures.
7. Verified that records included Material Certification and Receipt Inspection Report required by construction procedures.