**Charles H. Cruse** Vice President Nuclear Energy

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Calvert Cliffs Nuclear Power Plant

A Member of the Constellation Energy Group

June 4, 2001

U. S. Nuclear Regulatory Commission Washington, DC 20555

- ATTENTION: Document Control Desk
- SUBJECT:Calvert Cliffs Nuclear Power Plant<br/>Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318<br/>Relief Request for the Second Ten-year Inservice Inspection Interval Concerning<br/>Volumetric Examination Coverage
- **REFERENCES:** (a) Letter from Mr. C. H. Cruse (BGE) to NRC Document Control Desk, dated June 30, 2000; Relief Request for the Second Ten-year Inservice Inspection Interval Concerning Volumetric Examination Coverage
  - (b) Phone call between Mr. A. L. Simpson (CCNPP) and Mr. A. W. Dromerick (NRC), September 20, 2000

In Reference (a) Baltimore Gas and Electric Company (BGE) proposed alternatives to certain requirements of Section XI of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code (1983 Edition through Summer 1983 Addenda). Attachment (1) to Reference (a), Relief Request No. ISI-6, proposed alternatives for those welds where it was impractical to perform a complete examination (i.e., at least 90 percent of the weld volume) due to the limitations of design, geometry, and materials of construction that are characteristic of a plant of our vintage. In a phone call with the Staff (Reference b), the Staff identified several areas where additional information was needed. Below are the Staff's requests and the responses.

#### **NRC** Question

Please provide the staff with the status of the augmented reactor pressure vessel (RPV) examinations required by 10 CFR 50.55a(g)(6)(ii)(A). Discuss the implementation schedule for the augmented RPV examinations, as well as the augmented examination coverages obtained for each Item B1.10 weld at Calvert Cliffs Nuclear Power Plant Unit Nos. 1 and 2.

#### **CCNPP** Response

In addition to ASME Section XI Inservice Inspection requirements, all licensees must implement, once during the lifetime of the facility, an augmented volumetric examination of the RPV welds in accordance with 10 CFR 50.55a(g)(6)(ii)(A), specified in Code Item B1.10 of Examination Category B-A of the 1989 Edition of the ASME Code, Section XI. Examination Category B-A, Items B1.11 and B1.12,

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require volumetric examination of essentially 100 percent of the RPV circumferential and longitudinal shell welds, as defined by Figures IWB-2500-1 and -2, respectively. Essentially, 100 percent is defined by 10 CFR 50.55a(g)(6)(ii)(A)(2), as greater than 90 percent of the examination volume of each weld.

The examinations required by 10 CFR 50.55a(g)(6)(ii)(A) were completed on both Units 1 and 2 in 1998 and 1999, respectively.

At Calvert Cliffs Nuclear Power Plant (CCNPP) Unit 1, the augmented examination coverage requirements could not be met for one weld (Summary No. 001100, Comp ID 10-203) which was listed in Table 1 of Reference (a). The examination coverage for this weld was limited due to physical restrictions to scanning caused by the core barrel support lugs and the reactor vessel flow skirt. If the required coverage can not be met, 10 CFR 50.55a(g)(6)(ii)(A)(5) requires an alternative to the examination requirements be proposed. To meet the coverage requirements for the subject weld from the inside surface would require design modifications to increase access to the inside diameter surface. Physical modification of the RPV to achieve coverage requirements is not practical.

Examination of the one weld from the outside diameter to increase the percent coverage was evaluated. The evaluation concluded that while supplemental outside examination could increase the total coverage, this examination was considered impractical due to the associated radiation exposure, estimated to be at least 4 Rem(R). The dose estimate includes all of the necessary support activities in addition to the actual examination. However, we were able to examine a considerable portion (76 percent) of the subject weld despite the difficult configuration. Therefore, we propose acceptance of the weld examination, as completed, as an alternative allowed under 10CFR 50.55a(g)(6)(ii)(A)(5).

The examination of the RPV welds provides an acceptable level of quality and safety. We obtained a very high cumulative coverage of all CCNPP Unit 1 RPV shell welds (Items B1.11 and B1.12) of greater than 96 percent. For CCNPP Unit 2, the requirements of 10 CFR 50.55a(g)(6)(ii)(A)(2) were met.

#### **NRC** Question

Describe the proposed alternative as required by 10 CFR 50.55a(g)(6)(ii)(A)(5) for the weld with incomplete augmented examination coverage. Provide a reference to 10 CFR 50.55a(g)(6)(ii)(A)(5) in the proposed alternative.

#### **CCNPP** Response

See response to previous question.

#### NRC Question

The limitations listed in Tables 1 and 2 of the request for relief do not provide enough detail to demonstrate the impracticality of performing the subject examinations. Please provide detailed information regarding the limitations associated with the subject welds.

#### **CCNPP** Response

As discussed in Reference (a), the items listed in Tables 1 and 2 represent the welds credited for the Unit Nos. 1 and 2 Inservice Inspection Long-Term Plans, respectively, where 90 percent or less volumetric examination coverage was obtained as required by Code Case N-460. Tables 1 and 2 provide the Long-Term Plan Summary Number, Component ID, Component Description, ASME Code Category, ASME Item Number, Percent Volumetric Examination Coverage Achieved, and the Reason for the

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examination limitation for the welds which require relief. The attached Tables 1 and 2 correct some typographical errors in the Component ID and Description columns from those in Reference (a). In addition, one item (Summary No. 114350) was removed from Table 1 because supplemental examination data was available which showed the examination coverage to be greater than 90 percent.

Should you have further questions regarding this matter, we will be pleased to discuss them with you.

Very truly yours,

Maile Anne

CHC/ALS/bjd

- Attachments:(1)Table 1 Relief Request No. ISI-6(2)Table 2 Relief Request No. ISI-6
- cc: R. S. Fleishman, Esquire J. E. Silberg, Esquire Director, Project Directorate I-1, NRC D. M. Skay, NRC

H. J. Miller, NRC Resident Inspector, NRC R. I. McLean, DNR



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#### Table 1

## **Relief Request No. ISI-6**

Unit	Summary	Comp ID	Description	Category	Exam	Reason for Limitation
- 1	001100	10-203	Reactor Pressure Vessel (RPV)	B-A	76%	Ultrasonic testing (UT) exam coverage limited
	001100	10-200	Lower Shell to Lower Head	B1.11	1070	due to proximity of core support lugs and flow
				**		skirt to weld.
1	001700	1-204A	RPV Lower Head Meridional	B-A	52%	UT exam coverage limited due to proximity of
			Weld @ 30 Degrees	B1.22		flow skirt to weld.
1	002300	7-203	RPV Upper Shell to Flange	B-A	71%	UT exam limited due to inside surface taper.
				B1.30		
1	002350	6-209A	RPV Closure Head to Flange	B-A	65%	UT exam limited due to reactor vessel head
				B1.40		shroud supports.
1	004650	11-4-104	Steam Generator (SG) 11	B-B	81%	UT exam limited due to weld geometry.
			Disc	B2.40		
	004700	11 4 102	Ring	B_B	76%	
1	004700	11-4-102	Lower Head	B2.31	1070	or examining due to weld geometry.
	004900	11-1-111A	SG 11 Lower Head Meridional	B-B	88%	UT exam limited due to geometry and
	00-1000		Weld @ 66 Degrees	B2.32		interference from the outlet nozzle.
1	002400	10-205A	RPV Outlet Nozzle @	B-D	63%	UT exam limited due to nozzle integral
			0 Degrees	B3.90		extension geometry.
1	002450	10-205B	RPV Outlet Nozzle @	B-D	63%	UT exam limited due to nozzle integral
			180 Degrees	B3.90		extension geometry.
1	004050	4-404	Pressurizer Surge Line Nozzle	B-D	71%	UT exam limited due to permanent attachment
				B3.110		and one sided exam from vessel side.
1	004100	4-405	Pressurizer Spray Nozzle to	B-D	66%	UT exam limited due to nozzle configuration/
			Upper Head	B3.110		geometry and thermal sleeve.
1	004150	16-405A	Pressurizer Safety & Relief	B-D	77%	UT exam limited by nozzle geometry.
	· · · · · · · · · · · · · · · · · · ·		Valve Nozzle to Upper Head	B3.110		
1	004200	16-405B	Pressurizer Safety & Relief	B-D	/9%	UI exam limited due to permanent attachment
			Valve Nozzle to Upper Head	B3.110	0.40/	and one sided exam from vessel side.
1	005350	11-5-111A	SG 11 Loop 11A Outlet Nozzle	B-D	84%	UI exam limited due to nozzie configuration/
				B3.130	000/	geometry and support skint attachment to shell.
1	005400	11-5-111B	SG 11 LOOP 11B Outlet Nozzle	B-D	80%	or exam limited due to nozzie configuration/
1			to Shell	B3.130	1	geometry and support skin attachment to shell.

This weld subject to 10 CFR 50.55a(g)(6)(ii)(A)(2) Augmented RPV Examination Requirements.

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## Table 1

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Unit	Summary No	Comp ID	Description	Category Item No.	Exam Coverage	Reason for Limitation
1	005450	11-5-111C	SG 11 Loop 11 Inlet Nozzle to Shell	B-D B3.130	77%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
1	006650	12-5-111A	SG 12 Loop 12A Outlet Nozzle to Shell	B-D B3.130	84%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
1	006700	12-5-111B	SG 12 Loop 12B Outlet Nozzle to Shell	B-D B3.130	80%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
1	006750	12-5-111C	SG 12 Loop 12 Inlet Nozzle to Shell	B-D B3.130	77%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
1	102300	30-RC-11A-7	Elbow to Safe End	B-F B5.130	45%	UT exam limited due to weld geometry.
1	109600	30-RC-12B-7	Elbow to Safe End	B-F B5.130	64%	UT exam limited due to weld geometry.
1	114350					Deleted
1	118500	4-PS-1003-6	Safe End to Nozzle	B-F B5.40	63%	UT exam limited due to Nozzle configuration/ geometry and thermal sleeve
1	102350	30-RC-11A-8	Safe End to Pump	B-J B9.11	41%	UT exam limited due to weld geometry and material of the Reactor Coolant Pump.
1	102400	30-RC-11A-9	Pump to Safe End	B-J B9.11	50%	UT exam limited due to weld geometry and material of the Reactor Coolant Pump.
1	105600	42-RC-12-2/12- SC-1004	Branch Connection	B-J B9.31	50%	UT exam limited due to nozzle configuration/ geometry.
1	108250	30-RC-12B-1	Nozzle to Transition Piece	B-J B9.11	46%	UT exam limited due to nozzle to transition configuration/geometry.
1	110500	12-PSL-2	Safe End to Pipe	B-J B9.11	83%	UT exam limited due to weld geometry.
1	111150	14-SC-1005-1	Reducer to Pipe	B-J B9.11	50%	UT exam limited due to weld geometry.
1	112800	14-SC-1005-25	Pipe to Elbow	B-J B9.11	68%	UT exam limited due to weld geometry.
1	113700	12-SI-1009-4/6- SI-1001	Branch Connection	B-J B9.31	34%	UT exam limited due to geometry of 6 inch branch connection allows exam from 12 inch pipe side only.
1	116050	12-SI-1012-2	Valve 1-SI-245 to Pipe	B-J B9.11	75%	UT exam limited due to geometry of the weld and the valve material.

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## Table 1

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Unit	Summary No	Comp ID	Description	Category Item No.	Exam Coverage	Reason for Limitation
1	117050	6-SI-1002-27	Valve 1-SI-128 to Pipe	B-J B9.11	87%	UT exam limited due to weld geometry.
1	118200	4-PS-1003M-7	Pipe to Tee	B-J B9.11	88%	UT exam limited due to tee geometry.
1	118300	4-PS-1003-2	Tee to Elbow	B-J B9.11	89%	UT exam limited due to tee geometry.
1	122500	4-SR-1001-5	Pipe to Elbow	B-J B9.11	50%	UT exam limited due to weld geometry.
1	251350	SG-12-8	SG 12 Extension Ring to Tube Sheet	C-A C1.30	66%	UT exam limited due to weld geometry and permanent obstruction at outside surface.
1	252000	SCHE-11-1	11 Shutdown Cooling Heat Exchanger Flange to Channel Barrel	C-A C1.10	77%	UT exam limited due to flange geometry preventing examination from one side of the weld.
1	252350	SCHE-12-2	Tube Sheet To Channel Cover	C-A C1.10	65%	UT exam limited due to tubesheet geometry.
1	253250	RHE-9	Regenerative Heat Exchanger Shell to Tee	C-A C1.10	72%	UT exam limited due to tee geometry.
1	253600	RHE-16	Regenerative Heat Exchanger Tee to Shell	C-A C1.10	82%	UT exam limited due to tee geometry.
1	252450	SCHE-12-N2	Outlet Nozzle to Shell	С-В С2.21	52%	UT exam limited due to nozzle geometry preventing examination from one side of the weld.

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# TABLE 2 RELIEF REQUEST NO. ISI-6

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#### Table 2

Unit	Summary No	Comp ID	Description	Category Item No.	Coverage	Reason
2	001210	1-204A	RPV Lower Head Meridional Weld @ 30 Degrees	B-A B1.22	50%	UT exam limited due to the proximity of the flow skirt on the vessel ID
2	001270	7-203	RPV Flange to Upper Shell	B-A B1.30	84%	UT exam limited due to the inside surface taper.
2	001280	6-209A	RPV Closure Head to Flange	B-A B1.40	65%	UT exam limited due to reactor vessel head shroud supports.
2	103040	2-401D	Pressurizer Lower Shell @ 0 Degrees	B-B B2.12	58%	UT exam limited due to permanent insulation support.
2	104060	21-1-111A	SG 21 Meridional Weld @ 66 Degrees	B-B B2.32	88%	UT exam limited due to coverage proximity of flow skirt to weld.
2	101210	10-205A	RPV Outlet Nozzle @ 0 Degrees	B-D B3.90	62%	UT exam limited due to nozzle configuration/ geometry.
2	101220	10-205B	RPV Outlet Nozzle @ 180 Degrees	B-D B3.90	62%	UT exam limited due to nozzle configuration/ geometry.
2	103080	4-404	Pressurizer Surge Line Nozzle	B-D B3.110	71%	UT exam limited due to permanent attachment and one sided exam from vessel side.
2	103090	4-405	Pressurizer Spray Nozzle to Upper Head	B-D B3.110	66.4%	UT exam limited due to nozzle configuration/ geometry and thermal sleeve.
2	103110	16-405B	Pressurizer Safety and Relief Nozzle to Upper Head	B-D B3.110	41.9%	UT exam limited due to configuration/ geometry.
2	104110	21-5-111A	SG 21 Loop 21A Outlet Nozzle to Shell	B-D B3.130	84%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	104120	21-5-111B	SG 21 Loop 21B Outlet Nozzle to Shell	B-D B3.130	80%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	104130	21-5-111C	SG 21 Loop 21 Inlet Nozzle to Shell	B-D B3.130	77%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	105110	22-5-111A	SG 22 Loop 22A Outlet Nozzle to Shell	B-D B3.130	84%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	105120	22-5-111B	SG 22 Loop 22B Outlet Nozzle to Shell	B-D B3.130	80%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	105130	22-5-111C	SG 22 Loop 22 Inlet Nozzle to Shell	B-D B3.130	77%	UT exam limited due to nozzle configuration/ geometry and support skirt attachment to shell.
2	109280	30-RC-21A-7	Elbow to Safe End	B-F B5.130	73%	UT exam limited due to geometry.

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#### Table 2

2         109310         30-RC-21A-10         Safe End to Pipe         B-F B5.130         75.4%         UT exam limited due to configuration/ geometry.           2         110310         30-RC-21B-10         Safe End to Pipe         B-F B5.130         81.1%         UT exam limited due to configuration/ geometry.           2         136090         4-PS-2003-8         Safe End to Nozzle         B-F B5.40         VT exam limited due to nozzle configuration/ geometry.           2         108045         42-RC-22-2/12- SC-2004         Branch Connection         B-J S-40         UT exam limited due to configuration/ geometry.           2         108290         30-RC-21A-8         Safe End to Pump         B-J S-1         29%         UT exam limited due to nozzle configuration/ geometry.           2         110010         30-RC-21B-8         Safe End to Pump         B-J B-J         63.6%         UT exam limited due to nozzle configuration/ geometry and material of the Reactor Coolant Pump.           2         110290         30-RC-21B-8         Safe End to Pump         B-J B-J         41%         UT exam limited due to nozzle configuration/ geometry and material of the Reactor Coolant Pump.           2         111290         30-RC-22B-8         Safe End to Pump         B-J         41%         UT exam limited due to valid geometry and material of the Reactor Coolant Pump.           2	Unit	Summary No	Comp ID	Description	Category Item No.	Coverage	Reason
2         110310         30-RC-21B-10         Safe End to Pipe         B-F         81.1%         geometry.           2         136090         4-PS-2003-8         Safe End to Nozzle         B-F         75%         UT exam limited due to nozzle configuration/ geometry and thermal sleave.           2         108045         42-RC-22-2712- SC-2004         Branch Connection         B-J         35.1%         UT exam limited due to configuration/ geometry.           2         108045         42-RC-22-2712- SC-2004         Branch Connection         B-J         35.1%         UT exam limited due to configuration/ geometry.           2         109290         30-RC-21A-8         Safe End to Pump         B-J         29%         UT exam limited due to nozzle configuration/ geometry.           2         110010         30-RC-21B-1         Nozzle to Transition Piece         B-J         63.6%         UT exam limited due to onzzle configuration/ geometry and proximity adjacent weld.           2         110290         30-RC-21B-8         Safe End to Pump         B-J         41%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         111290         30-RC-22B-8         Safe End to Pump         B-J         55%         UT exam limited due to vald geometry and material of the Reactor Coolant Pump.           2         1112290 <td>2</td> <td>109310</td> <td>30-RC-21A-10</td> <td>Safe End to Pipe</td> <td>B-F</td> <td>75.4%</td> <td>UT exam limited due to configuration/</td>	2	109310	30-RC-21A-10	Safe End to Pipe	B-F	75.4%	UT exam limited due to configuration/
2       110310       30-RC-21B-10       Safe End to Pipe       B-       81.1%       01 exam limited due to configuration/ geometry.         2       136090       4-PS-2003-8       Safe End to Nozzle       B-F       75%       UT exam limited due to configuration/ geometry.         2       108045       42-RC-22-2/12- SC-2004       Branch Connection       B-J       35.1%       UT exam limited due to configuration/ geometry.         2       109290       30-RC-21A-8       Safe End to Pump       B-J       29%       UT exam limited due to configuration/ geometry.         2       110010       30-RC-21B-8       Safe End to Pump       B-J       29%       UT exam limited due to nozzle configuration/ geometry.         2       110290       30-RC-21B-8       Safe End to Pump       B-J       63.6%       UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.         2       110290       30-RC-21B-8       Safe End to Pump       B-J       65%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to veld geometry and material of the Reactor Coolant Pump.         2       111290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam lim					B5.130	04.40/	geometry.
2     136090     4-PS-2003-8     Safe End to Nozzle     B-F     75%     UT exam limited due to nozzle configuration/ geometry.       2     108045     42-RC-22-2/12- SC-2004     Branch Connection     B-J     35.1%     UT exam limited due to configuration/ geometry.       2     109290     30-RC-21A-8     Safe End to Pump     B-J     29%     UT exam limited due to configuration/ geometry.       2     110010     30-RC-21B-1     Nozzle to Transition Piece     B-J     63.6%     UT exam limited due to nozzle configuration/ geometry.       2     110290     30-RC-21B-8     Safe End to Pump     B-J     63.6%     UT exam limited due to nozzle configuration/ geometry.       2     110290     30-RC-21B-8     Safe End to Pump     B-J     41%     UT exam limited due to weld geometry and material of the Reactor Coolant Pump.       2     111300     30-RC-22B-8     Safe End to Pump     B-J     55%     UT exam limited due to weld geometry and material of the Reactor Coolant Pump.       2     114940     12-SC-2004-5     Valve 2-MOV-652 to Elbow     B-J     59%     UT exam limited due to valve configuration/ geometry.       2     115010     12-SI-2009-3     Pipe to Valve 2-MOV-614     B-J     46%     UT exam limited due to configuration/ geometry.       2     115090     12-SI-2009-40- SI-2001-40- SI-2001-40- SI-2003 <t< td=""><td>2</td><td>110310</td><td>30-RC-21B-10</td><td>Safe End to Pipe</td><td>B-F</td><td>81.1%</td><td>UI exam limited due to configuration/</td></t<>	2	110310	30-RC-21B-10	Safe End to Pipe	B-F	81.1%	UI exam limited due to configuration/
2       136090       4-PS-2003-8       Safe End to Nozzle       B-H       7.5%       U1 exam limited due to Inozzle Configuration/ geometry and thermal sleeve.         2       108045       42-RC-22-2/12- SC-2004       Branch Connection       B-J       35.1%       UT exam limited due to configuration/ geometry.         2       109290       30-RC-21A-8       Safe End to Pump       B-J       29%       UT exam limited due to nozzle configuration/ geometry.         2       110010       30-RC-21B-1       Nozzle to Transition Piece       B-J       63.6%       UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.         2       110290       30-RC-21B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22A-9       Pump to Safe End       B-J       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to valve configuration/ geometry.         2       11290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112900       12-SL-2009-30       Pipe to					B5.130		geometry.
2         108045         42-RC-22-2/12- SC-2004         Branch Connection         BJ. B9.31         35.1%         UT exam limited due to configuration/ geometry.           2         109290         30-RC-21A-8         Safe End to Pump         B-J         29%         UT exam limited due to configuration/ geometry.           2         110010         30-RC-21B-1         Nozzle to Transition Piece         B-J         63.6%         UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.           2         110290         30-RC-21B-8         Safe End to Pump         B-J         41%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         111300         30-RC-22B-8         Safe End to Pump         B-J         41%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         112290         30-RC-22B-8         Safe End to Pump         B-J         55%         UT exam limited due to valve configuration/ geometry and material of the Reactor Coolant Pump.           2         11290         30-RC-22B-8         Safe End to Pump         B-J         41%         UT exam limited due to valve configuration/ geometry.           2         114940         12-SC-2004-5         Valve 2-MOV-652 to Elbow         B-J         69%         UT exam limited due to valve configuration/ geometry.	2	136090	4-PS-2003-8	Safe End to Nozzle	B-F	/5%	UT exam limited due to nozzle configuration/
2     108045     42-RC-22-2/12- SC-2004     Branch Connection     B-J B9.31     35.1%     0 T exam limited due to configuration/ geometry.       2     109290     30-RC-21A-8     Safe End to Pump     B-J B9.11     29%     UT exam limited due to configuration/ geometry.       2     110010     30-RC-21B-1     Nozzle to Transition Piece     B-J B9.11     63.6%     UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.       2     110290     30-RC-21B-8     Safe End to Pump     B-J B9.11     63.6%     UT exam limited due to weld geometry and material of the Reactor Coolant Pump.       2     111300     30-RC-22B-8     Safe End to Pump     B-J B9.11     55%     UT exam limited due to weld geometry and material of the Reactor Coolant Pump.       2     112290     30-RC-22B-8     Safe End to Pump     B-J B9.11     H1%     UT exam limited due to valve geometry and material of the Reactor Coolant Pump.       2     114940     12-SI-2004-5     Valve 2-MOV-652 to Elbow B9.11     B-J B9.11     59%     UT exam limited due to valve configuration/ geometry.       2     115010     12-SI-2009-3/6-     Pipe to Valve 2-MOV-614     B-J B9.31     50%     UT exam limited due to configuration/ geometry.       2     115030     12-SI-2009-10     Valve 2-SI-217 to Elbow     B-J B9.31     50%     UT exam limited due to configuration/ geometry.					B5.40	05.40/	geometry and thermal sleeve.
Sc-2004         B9.31         geometry.           2         109290         30-RC-21A-8         Safe End to Pump         B-J         29%         UT exam limited due to configuration/ geometry.           2         110010         30-RC-21B-1         Nozzle to Transition Piece         B-J         63.6%         UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.           2         110290         30-RC-21B-8         Safe End to Pump         B-J         41%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         111300         30-RC-22B-8         Safe End to Pump         B-J         55%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         112290         30-RC-22B-8         Safe End to Pump         B-J         55%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         112290         30-RC-22B-8         Safe End to Pump         B-J         41%         UT exam limited due to weld geometry and material of the Reactor Coolant Pump.           2         114940         12-SC-2004-5         Valve 2-MOV-652 to Elbow         B-J         59%         UT exam limited due to valve configuration/ geometry.           2         115010         12-SI-2009-4/6- SI-2004         Branch Connection	2	108045	42-RC-22-2/12-	Branch Connection	B-J	35.1%	UT exam limited due to configuration/
2       109290       30-RC-21A-8       Sate End to Pump       B-J       29%       UT exam limited due to configuration/ geometry.         2       110010       30-RC-21B-1       Nozzle to Transition Piece       B-J       63.6%       UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.         2       110290       30-RC-21B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22B-8       Safe End       B-J       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       11290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       114940       12-SC-2004-5       Valve 2-MOV-652 to Elbow       B-J       59%       UT exam limited due to valve configuration/ geometry.         2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J       46%       UT exam limited due to configuration/ geometry.         2       115090       12-SI-2009-4/6- SI-2001       Branch C			SC-2004		B9.31	00%	geometry.
2       110010       30-RC-21B-1       Nozzle to Transition Piece       B-J       63.6%       UT exam limited due to nozzle configuration/ geometry and proximity adjacent weld.         2       110290       30-RC-21B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22A-9       Pump to Safe End       B-J       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       114940       12-SC-2004-5       Valve 2-MOV-652 to Elbow       B-J       59%       UT exam limited due to valve configuration/ geometry.         2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J       46%       UT exam limited due to configuration/ geometry.         2       115090       12-SI-2009-4/6- SI-2001       Branch Connection       B-J       84.2%       UT exam limited due to configuration/ geometry.         2       117030       12-SI-2011-4/6- SI-2003	2	109290	30-RC-21A-8	Safe End to Pump	B-J	29%	
2       110010       30-RC-21B-1       Nozzle to Transition Piece       B-J B9.11       63.6%       UT exam limited due to nozzle configuration// geometry and proximity adjacent weld.         2       110290       30-RC-21B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22B-8       Safe End to Pump       B-J B9.11       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       11290       30-RC-22B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to valve geometry and material of the Reactor Coolant Pump.         2       114940       12-SC-2004-5       Valve 2-MOV-652 to Elbow       B-J B9.11       59%       UT exam limited due to valve configuration/ geometry.         2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J B9.11       9000000000000000000000000000000000000					B9.11	00.00/	geometry.
211029030-RC-21B-8Safe End to PumpB-J B-J B-J41%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211130030-RC-22A-9Pump to Safe EndB-J B9.1155%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211229030-RC-22B-8Safe End to PumpB-J B9.1141%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.21129030-RC-22B-8Safe End to PumpB-J B9.1141%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J B9.1159%UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B9.1146%UT exam limited due to configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7/6- SI-2004-Branch ConnectionB-J B9.3131%UT exam limited due to valve configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-2	2	110010	30-RC-21B-1	Nozzle to Transition Piece	B-J	63.6%	UI exam limited due to nozzle configuration/
2       110290       30-RC-21B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       111300       30-RC-22A-9       Pump to Safe End       B-J B9.11       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       114940       12-SC-2004-5       Valve 2-MOV-652 to Elbow       B-J B9.11       59%       UT exam limited due to valve configuration/ geometry.         2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J B9.11       B-J geometry.       46%       UT exam limited due to valve configuration/ geometry.         2       115030       12-SI-2009-4/6- SI-2001       Branch Connection       B-J B9.31       50%       UT exam limited due to configuration/ geometry.         2       115090       12-SI-2011-4/6- SI-2003       Branch Connection       B-J B9.31       84.2%       UT exam limited due to configuration/ geometry.         2       118030       12-SI-2012-4/6- SI-2003       Branch Connection       B-J B9.31       50%       UT exam limited due to branch configuration/ geometry.         2       118060<					B9.11		geometry and proximity adjacent weid.
211130030-RC-22A-9Pump to Safe EndB-J55%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211229030-RC-22B-8Safe End to PumpB-J41%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.21129030-RC-22B-8Safe End to PumpB-J41%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J59%UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J46%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J50%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J84.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B-J50%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2012-4/6-Branch ConnectionB-J B-J50%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J B-J80%UT exam limited due to valve configuration/ geometry.	2	110290	30-RC-21B-8	Safe End to Pump	B-J	41%	UI exam limited due to weld geometry and
2       111300       30-RC-22A-9       Pump to Safe End       B-J B9.11       55%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       112290       30-RC-22B-8       Safe End to Pump       B-J B9.11       41%       UT exam limited due to weld geometry and material of the Reactor Coolant Pump.         2       114940       12-SC-2004-5       Valve 2-MOV-652 to Elbow       B-J B9.11       59%       UT exam limited due to valve configuration/ geometry.         2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J B9.11       B-J geometry.       UT exam limited due to valve configuration/ geometry.         2       115030       12-SI-2009-4/6- SI-2001       Branch Connection       B-J B9.31       50%       UT exam limited due to configuration/ geometry.         2       115090       12-SI-2009-10       Valve 2-SI-217 to Elbow       B-J B9.31       84.2%       UT exam limited due to configuration/ geometry.         2       117030       12-SI-2011-4/6- SI-2003       Branch Connection       B-J B9.31       90/ geometry.       UT exam limited due to branch configuration/ geometry.         2       118030       12-SI-2012-4/6- SI-2004C       Branch Connection       B-J B9.31       31%       UT exam limited due to branch configuration/ geometry.         2       118060       12-SI-20				······································	B9.11		material of the Reactor Coolant Pump.
211229030-RC-22B-8Safe End to PumpB-J B-J41%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J B-J59%UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B-J46%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J B9.3184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B-J50%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2003Branch ConnectionB-J B-J50%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B-J31%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J B-J80%UT exam limited due to valve configuration/ geometry.	2	111300	30-RC-22A-9	Pump to Safe End	B-J	55%	UT exam limited due to weld geometry and
211229030-RC-22B-8Safe End to PumpB-J B9.1141%UT exam limited due to weld geometry and material of the Reactor Coolant Pump.211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J B9.1159%UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B9.1146%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J B9.1184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211806012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3131%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J B-J80%UT exam limited due to valve configuration/ geometry.					B9.11		material of the Reactor Coolant Pump.
211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J B9.1159% B-J geometry.UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B9.1146%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-4/6- SI-2001Branch ConnectionB-J B-J50%UT exam limited due to configuration/ geometry.211509012-SI-2009-10 SI-2003Valve 2-SI-217 to ElbowB-J B9.3184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3131%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/ geometry.	2	112290	30-RC-22B-8	Safe End to Pump	B-J	41%	UT exam limited due to weld geometry and
211494012-SC-2004-5Valve 2-MOV-652 to ElbowB-J B9.1159%UT exam limited due to valve configuration/ geometry.211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B9.1146%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10 SI-2001Valve 2-SI-217 to ElbowB-J B9.3184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3150%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-4/6- SI-2012-7Branch ConnectionB-J B9.3131%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/ geometry.					B9.11		material of the Reactor Coolant Pump.
211501012-SI-2009-3Pipe to Valve 2-MOV-614B-J B9.1146%UT exam limited due to valve configuration/ geometry.211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J B9.3184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211806012-SI-2012-4/6- SI-2012-7Branch ConnectionB-J B9.3131%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/ geometry.	2	114940	12-SC-2004-5	Valve 2-MOV-652 to Elbow	B-J	59%	UT exam limited due to valve configuration/
2       115010       12-SI-2009-3       Pipe to Valve 2-MOV-614       B-J       46%       UT exam limited due to valve configuration/ geometry.         2       115030       12-SI-2009-4/6- SI-2001       Branch Connection       B-J       50%       UT exam limited due to configuration/ geometry.         2       115090       12-SI-2009-10       Valve 2-SI-217 to Elbow       B-J       84.2%       UT exam limited due to configuration/ geometry.         2       117030       12-SI-2011-4/6- SI-2003       Branch Connection       B-J       50%       UT exam limited due to configuration/ geometry.         2       117030       12-SI-2011-4/6- SI-2003       Branch Connection       B-J       50%       UT exam limited due to configuration/ geometry.         2       118030       12-SI-2012-4/6- SI-2004C       Branch Connection       B-J       31%       UT exam limited due to branch configuration/ geometry.         2       118060       12-SI-2012-7/       Pipe to Valve 2-SI-247       B-J       80%       UT exam limited due to valve configuration/					B9.11		geometry.
211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J B9.1184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211806012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B-J31%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/ geometry.	2	115010	12-SI-2009-3	Pipe to Valve 2-MOV-614	B-J	46%	UT exam limited due to valve configuration/
211503012-SI-2009-4/6- SI-2001Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J B9.1184.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3150%UT exam limited due to configuration/ geometry.211806012-SI-2012-4/6- SI-2004CBranch ConnectionB-J B9.3131%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/ geometry.					B9.11		geometry.
SI-2001B9.31geometry.211509012-SI-2009-10Valve 2-SI-217 to ElbowB-J84.2%UT exam limited due to configuration/ geometry.211703012-SI-2011-4/6- SI-2003Branch ConnectionB-J50%UT exam limited due to configuration/ geometry.211803012-SI-2012-4/6- SI-2004CBranch ConnectionB-J31%UT exam limited due to branch configuration/ geometry.211806012-SI-2012-7Pipe to Valve 2-SI-247B-J80%UT exam limited due to valve configuration/	2	115030	12-SI-2009-4/6-	Branch Connection	B-J	50%	UT exam limited due to configuration/
2       115090       12-SI-2009-10       Valve 2-SI-217 to Elbow       B-J       84.2%       UT exam limited due to configuration/ geometry.         2       117030       12-SI-2011-4/6- SI-2003       Branch Connection       B-J       50%       UT exam limited due to configuration/ geometry.         2       118030       12-SI-2012-4/6- SI-2012-4/6- SI-2004C       Branch Connection       B-J       31%       UT exam limited due to branch configuration/ geometry.         2       118060       12-SI-2012-7       Pipe to Valve 2-SI-247       B-J       80%       UT exam limited due to valve configuration/			SI-2001		B9.31		geometry.
Image: Constraint of the constr	2	115090	12-SI-2009-10	Valve 2-SI-217 to Elbow	B-J	84.2%	UT exam limited due to configuration/
2       117030       12-SI-2011-4/6- SI-2003       Branch Connection       B-J B9.31       50%       UT exam limited due to configuration/ geometry.         2       118030       12-SI-2012-4/6- SI-2004C       Branch Connection       B-J B9.31       31%       UT exam limited due to branch configuration/ geometry.         2       118060       12-SI-2012-7       Pipe to Valve 2-SI-247       B-J       80%       UT exam limited due to valve configuration/					B9.11		geometry.
SI-2003     B9.31     geometry.       2     118030     12-SI-2012-4/6- SI-2004C     Branch Connection     B-J     31%     UT exam limited due to branch configuration/ geometry.       2     118060     12-SI-2012-7     Pipe to Valve 2-SI-247     B-J     80%     UT exam limited due to valve configuration/	2	117030	12-SI-2011-4/6-	Branch Connection	B-J	50%	UT exam limited due to configuration/
2       118030       12-SI-2012-4/6- SI-2004C       Branch Connection       B-J B9.31       31%       UT exam limited due to branch configuration/ geometry.         2       118060       12-SI-2012-7       Pipe to Valve 2-SI-247       B-J       80%       UT exam limited due to valve configuration/			SI-2003		B9.31		geometry.
SI-2004C     B9.31     geometry.       2     118060     12-SI-2012-7     Pipe to Valve 2-SI-247     B-J     80%     UT exam limited due to valve configuration/	2	118030	12-SI-2012-4/6-	Branch Connection	B-J	31%	UT exam limited due to branch configuration/
2 118060 12-SI-2012-7 Pipe to Valve 2-SI-247 B-J 80% UT exam limited due to valve configuration/	-		SI-2004C		B9.31		geometry.
	2	118060	12-SI-2012-7	Pipe to Valve 2-SI-247	B-J	80%	UT exam limited due to valve configuration/
B9.11 geometry.	-			'	B9.11		geometry.
2 123000 6-SI-2004C-1 Valve 2-SI-148 to Pipe B-J 31% UT exam limited due to valve configuration/	2	123000	6-SI-2004C-1	Valve 2-SI-148 to Pipe	B-J	31%	UT exam limited due to valve configuration/
B9.11 geometry.	-				B9.11		geometry.

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#### Table 2

Unit	Summary No	Comp ID	Description	Category Item No.	Coverage	Reason
2	136030	4-PS-2003-3	Pipe to Tee	B-J	67%	UT exam limited due to tee configuration/
				B9.11		geometry.
2	141010	4-SR-2005-2	Pressurizer Safety and Relief	B-J	63%	UT limited due to safe end configuration/
_			Safe End to Elbow	B9.11		geometry.
2	202500	RHE-10	Regenerative Heat Exchanger	C-A	72%	UT exam limited due to tee configuration/
			Shell to Tee	C1.10		geometry.
2	201050	SG-22-MS	SG 22 Vessel to Main Steam	C-B	77.8%	UT exam limited due to nozzle configuration/
			Nozzle	C2.21		geometry.
2	201150	SG-22-FW	SG 22 Feedwater Nozzle to	C-B	76.2%	UT exam limited due to nozzle configuration/
			Vessel	C2.21		geometry.
2	201400	SCHE-21-N1	Shutdown Cooling Heat	C-B	44%	UT exam limited due to nozzle geometry
			Exchanger Inlet Nozzle	C2.21		preventing examination from one side of the
			_	1		weld.
2	203300	RHE-25	Regenerative Heat Exchanger	C-B	84%	UT exam limited due to configuration/
			Pipe to Reducer	C2.21		geometry.