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Detroit Edison

10CFR50.55a

August 21, 2000
NRC-00-0079

U. S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington D C 20555-0001

Reference: Fermi 2
NRC Docket No. 50-341
NRC License No. NPF-43

Subject: Summary Report of the 2000 Inservice Inspection

Enclosed is the Summary Report of the 2000 Inservice Inspection (ISI) activities performed at Detroit Edison Company's Fermi 2 Nuclear Power Plant. This report represents a summary of the ISI activities for the Second Ten-Year Inspection Interval beginning February 17, 2000 through the seventh refueling outage.

This report is being submitted in accordance with ASME Section XI, 1989 Edition, paragraph IWA-6230, for IWB, IWC, IWD, and IWF inspections, and the 1992 Edition, including the 1992 Addenda, for IWE inspections.

Should you have any questions or require additional information, please contact Mr. Norman K. Peterson, Director - Nuclear Licensing, at (734) 586-4258.

Sincerely,

P. Fessler

cc: A. J. Kugler
M. A. Ring
NRC Resident Office
Regional Administrator, Region III
M. Wilson - ANII
R. Aben - Chief Inspector, Michigan Dept. of Labor, Bureau of Construction Codes/Boiler Division

A047

FORM NIS-1 OWNERS' DATA REPORT FOR INSERVICE INSPECTIONS

As required by the Provisions of the ASME Code Rules

1. Owner Detroit Edison Co., 2000 2nd Ave., Detroit, MI 48226
   (Name and Address of Owner)

2. Plant Fermi-2 Nuclear Power Plant, 6400 N. Dixie Hwy., Newport MI 48166
   (Name and Address of Plant)

3. Plant Unit 2 4. Owner Certificate of Authorization (if required) N/A

5. Commercial Service Date 01-23-88 6. National Board Number for Unit N/A

7. Components Inspected see attached listing in Section 7.0 and 8.0 of Summary Report

Component Appurtenance	Manufacturer or Installer	Manufacturer or Installer Serial No.	State or Province No.	National Board No.
RPV	Combustion Engineering	CE-67211	M345962M	21085
Class 1, 2, & 3 Components (1)	Wisner & Becker Townsend & Bottom	Various	M345962M	N/A
Associated Supports	Chicago Bridge & Iron	Various	M345962M	N/A
	Reactor Controls Inc.	Various	M345962M	N/A
	Walbridge Aldinger Co.	Various	M345962M	N/A
Containment Vessel	Chicago Bridge and Iron	C-4512	N/A	N/A

Note: Supplemental sheets in form of lists, sketches, or drawings may be used provided(1) size is 8 1/2 in. x 11 in., (2) information in items 1 through 6 on this data report is included on each sheet, and (3) each sheet is numbered and the number of sheets is recorded at the top of this form.

(1) Certificate of Accreditation No. OWN-159 for N-3 Data Report.

ISI SUMMARY REPORT OF THE 2000 INSERVICE INSPECTION

at

Fermi 2 Nuclear Power Plant
6400 N. Dixie Highway
Newport, MI 48166

Detroit Edison Company
2000 2nd Avenue
Detroit, MI 48226

Commercial Service Date: January 23, 1988
NB# 21085 (RPV)

Michigan Boiler Serial Number
M345962M

To:

U. S. Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555

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SECTION 1

INTRODUCTION

1. INTRODUCTION

1.1. This report represents a summary of the Inservice Inspection (ISI) activities performed at Detroit Edison Company's Fermi 2 Nuclear Power Plant for the Second ten-year Inspection Interval beginning February 17, 2000.

1.2. Fermi 2 - Program B (ASME Section XI, IWA-2420):

1.2.1. First Inspection Interval (1980-W'81 addenda)	(01/23/88 – 02/16/00)*
1. First Inspection Period	(01/23/88 - 06/10/91)
a. First Refueling Outage	(09/03/89 - 12/16/89)
b. Second Refueling Outage	(03/30/91 - 06/10/91)
2. Second Inspection Period	(06/11/91 - 01/03/95)
a. Third Refueling Outage	(09/12/92 - 11/07/92)
b. Fourth Refueling Outage	(04/12/94 - 01/03/95)*
	12/25/93 - 01/18/95
3. Third Inspection Period	(01/03/95 - 12/31/98)*
a. Fifth Refueling Outage	(09/27/96 - 01/03/97)
b. Sixth Refueling Outage	(09/07/98 - 10/29/98)
1.2.2. Second Inspection Interval (1989 Edition)	(02/17/00 – 02/17/10)
1. First Inspection Period	(02/17/00 – 06/17/03)
a. Seventh Refueling Outage	(04/01/00 – 05/23/00)

* Fermi 2 was in an extended outage that began on 12/25/93 following a Turbine/Generator failure and ended with the closing of the output breaker on 01/18/95.

Fermi 2 extended the first inspection interval to 2/16/2000 because of the extend shutdown and the additional year provided by IWA-2400.

1.3. Examinations were performed to satisfy the requirements (or portions thereof) of the following:

1.3.1. American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code, Section XI, Division 1, "Rules for Inservice Inspection of Nuclear Power Plant Components," Inspection Program B.

1.3.2. NUREG 0313, Revision 2, "Technical Report on Material Selection and Processing Guidelines for BWR Coolant Pressure Boundary Piping"

1.3.3. NRC Generic Letter 88-01, "NRC Position on IGSCC in BWR Austenitic Stainless Steel Piping"

1.3.4. Fermi 2 Technical Requirements Manual, 5.1 Snubbers

1.3.5. Augmented inspection of selected components in accordance with the requirements as listed in the following Table A or section 6 of this report.

1.3.6. BWROG NUREG 0619 Alternate Feedwater Nozzle Inspection Requirements, GE-NE-523-22-0292.

TABLE A

REQUIREMENT	DESCRIPTION	EXAM METHOD
	VESSELS	
1989	Pressure Vessel (B-A, B-D, B-H, C-A, C-B)	Surface and/or Manual Volumetric or Automated Volumetric
	Reactor Vessel Interior and welded attachments or core support structures (B-N-1, B-N-2)	Visual Examination - Direct and/or Remote Manual
	Integral attachments for vessels (B-H, C-C)	Surface and/or Volumetric
	Pressure retaining bolting >2" diameter (B-G-1, C-D)	Surface and/or Volumetric
	Pressure retaining welds in CRD housing (B-O)	Surface and/or Volumetric
1992E, 92A	Containment Inspection (IWE)	Visual
	PIPING	
1989 Edition	- Pressure retaining Piping Welds (B-F, B-J, C-F)	Surface and/or Manual, Automated Volumetric
	-Integral attachment for piping pumps and valves (B-K-1, C-C, Code Case N-509)	Surface and/or Volumetric
	OTHER	
1989 Edition	Pressure retaining partial penetration welds (B-E)	Visual Examination
	Pressure retaining bolting <2" diameter (B-G-2)	Visual Examination
	Pressure retaining bolting >2" diameter (B-G-1)	Visual Examination and /or Volumetric
	Pressure boundary component supports (F-A, Code Case N491-1)	Visual Examination
	Pump and Valve Internal Surfaces (B-L-2, B-M-2)	Visual Examination

TABLE A (continued)

REQUIREMENT	DESCRIPTION	EXAM METHOD
	PRESSURE TEST	
1989 Edition	Interval 1 Pressure Testing (B-P, C-H, and D-B, Code Case N-416-1, Code Case N-498-1)	Visual Examination
	AUGMENTED	
NUREG-0313, Rev. 2 and Generic Ltr. 88-01	Pressure retaining piping welds (B-F, B-J)	Manual Volumetric and/or Automated Volumetric
	Pressure retaining piping welds (Nonclassed)	Manual Volumetric
BWROG NUREG-0619 Alternative Feedwater Nozzle Inspections	Feedwater Nozzle Inner Blend Radii (GE-NE-523-A71-594)	Manual or Automated Volumetric - from outside surface
Fermi 2 Technical Requirements Manual	Safety Related Snubbers	Visual Examination
	Sampling of Safety Related Snubbers	Functional Testing
IE Notice 93-079	Core Shroud	Visual Examination
Generic Ltr. 94-03	Core Shroud Welds	Visual Examination
IEB 80-13	Core Spray and Spargers	Visual Examination
Vendor Recommendations		
SIL No. 459	Byron Jackson Recirculation Pump Shaft Cracking	Visual Examination
SIL No. 289, Rev.1, Supp 2	Core Spray Piping	Remote Visual Examination
SIL No. 330	Jet Pump Hold Down Beam Cracking	Remote Visual Examination
SIL No. 409	Incore Dry Tube Cracks	Remote Visual Examination
SIL No. 420	Jet Pump Sensing Lines and Support Brackets	Remote Visual Examination
SIL No. 433	Shroud Head Bolts	Remote Visual Examination

TABLE A (continued)

REQUIREMENT	DESCRIPTION	EXAM METHOD
	AUGMENTED (continued)	
SIL No. 455	Additional ISI of Alloy 182 Nozzle Weldments (Rev. 1, Supp 1)	Volumetric Examination
SIL No. 462	Access Hole Cover Cracking	Remote Visual Examination
SIL No. 465	Jet Pump Inlet Mixer	Remote Visual Examination
SIL No. 474	Stem Dryer Channel Cracking	Remote Visual Examination
SIL No. 551	Jet Pump Riser Bracket	Remote Visual Examination
SIL No. 554	Top Guide Beams	Remote Visual Examination
SIL No. 559	Top Guide Inspections	Remote Visual Examinations
SIL No. 572 and supplements	Shroud	Remote Visual Examination
SIL No. 574	Jet Pump Adjusting Screw Tack Welds	Remote Visual Examination
SIL No. 588, Rev. 1	Top Guide and Core Plate Cracking	Remote Visual Examination
SIL No. 605	Jet Pump Riser Welds	Remote Visual Examination
BWRVIP-01/76 BWR Core Shroud Inspection and Flaw Evaluation Guidelines	Core Shroud	Remote Methods as in BWRVIP-03
BWRVIP-03 Reactor Vessel and Internal Examination Guidelines	Reactor Vessel Internals Components	Remote Visual Examination, Ultrasonic and Eddy Current
BWRVIP-07 Guidelines for Reinspection of BWR Core Shrouds	Core Shrouds	Remote Visual and Ultrasonic
BWRVIP-18 Core Spray Inspection and Evaluation (I&E) Guidelines	Core Spray Internals Piping and Spargers	Remote Visual Examination

TABLE A (continued)

REQUIREMENT	DESCRIPTION	EXAM METHOD
	AUGMENTED (continued)	
BWRVIP-26 Top Guide I&E Guidelines	Top Guide Components	Remote Visual Examination
BWRVIP-38 Shroud Support I&E Guidelines	Shroud Support Components	Remote Visual Examination
BWRVIP-41 Jet Pump Assembly I&E Guidelines	Jet Pump Components	Remote Visual Examination
BWRVIP-47 BWR Lower Plenum I&E Guidelines	Incore Guide/Dry Tubes	Remote Visual Examination
BWVRIP-48 Vessel ID Attachment Weld I&E Guidelines	Vessel Internal Attachments	Remote Visual Examination
BWRVIP-49 Instrument Penetration I&E Guidelines	Instrument Penetrations	Remote Visual Examination

SECTION 2

CLASS 1, 2 AND AUGMENTED RPV AND PIPING WELDS

2. Interval 2, Period 1, RF07 Examinations

B-D	**Reactor Vessel**	**Nozzle Inside Radius Section**		6						
B3.100	4-31C IRS	(NUREG 0619) Inner Radius	5361-5	6	UT	70287	17-Apr	AUT-IR-C01		R7-01
B3.100	4-316E IRS	(NUREG 0619) Inner Radius	5361-5	6	UT	70287	13-Apr	AUT-IR-C01		R7-02
B3.100	4-316F IRS	(NUREG 0619) Inner Radius	5361-5	6	UT	70287	17-Apr	AUT-IR-C01		R7-03
NUREG 0619	**Reactor Vessel**	**Nozzle Inner Bore Region**								
Augmented	4-316C IBR	FW Nozz Inner Bore Region	5361-5	6	UT	70287	16-Apr	AUT-IR-C01		R7-01
Augmented	4-316E IBR	FW Nozz Inner Bore Region	5361-5	6	UT	70287	13-Apr	AUT-IR-C01		R7-02
Augmented	4-316F IBR	FW Nozz Inner Bore Region	5361-5	6	UT	70287	16-Apr	AUT-IR-C01		R7-03
B-F	**RPV / Piping**	**RPV Noz to Safe End**								
B5.10	N5B	Dissimilar Metal Nozz-SE	3052-5	5	UT	FER-44,45	12-Apr	DETC-C05,C06		R7-04
	N5B	Core Spray	3052-5	1	PT	N/A	11-Apr		PT-05	R7-04
B5.10	2-303H	Dissimilar Metal Nozz-SE	5356-5	5	UT	FER-54,56	10-Apr	DETC-C01,C02		R7-05
	2-303H	Recirc Inlet	5356-5	1	PT	N/A	5-Apr		PT-03	R7-05
B5.10	4-303A	Dissimilar Metal Nozz-SE	5357-5	5	UT	FER-55,57	12-Apr	DETC-C03,C04		R7-06
	4-303A	Recirc Suction	5357-5	1	PT	N/A	7-Apr		PT-04	R7-06
B5.10	102-304A	Dissimilar Metal Nozz-SE	5361-5	4	UT	FER47, Alt.1	13-Apr 13-Apr	PDI-1-C15-17 PDI-2-C07-09	UT-01	R7-07
	102-304A	Jet Pump Instrumentation	5361-5	1	PT	N/A	13-Apr		PT-06	R7-07
B5.20	5-315	Dissimilar Metal Nozz-SE	5361-5	4	UT	FER28	14-Apr	PDI-2-C10-12	UT-01	R7-08
	5-315	Core DP and Liquid Control	R1-91	1	PT	N/A	14-Apr		PT-07	R7-08

B-K-1	**Integral Attach For Piping, Pumps, Valves**									
B10.10	SW-PS-2-A2-AA1	Pipe Lug Class 1	5352-5	2	MT	N/A	13-Apr		MT-17	R7-09
	SW-PS-2-A2-AA2	Pipe Lug	5352-5	2	MT	N/A	13-Apr		MT-18	R7-10
	SW-PS-2-A2-AA3	Pipe Lug	5352-5	2	MT	N/A	13-Apr		MT-19	R7-11
	SW-PS-2-A2-AA4	Pipe Lug	5352-5	2	MT	N/A	13-Apr		MT-20	R7-12
C-C	**Integral Attach For Piping, Pumps, Valves**									
C3.20	PSFW-E21-3147-301	Class 2 Stanchion to pipe	3147-5	2	MT	N/A	30-Mar		MT-02	R7-13
C-F	**Pressure Retaining Welds in Piping**									
C-F-1/Aug.	FW-C41-2979-P	2" pipe to coupling	2979-5	1	PT	N/A	30-Mar		PT-01	R7-15
C-F-1/Aug.	FW-C41-3361-02W1	3" valve to pipe	3361-5	1	PT	N/A	31-Mar		PT-02	R7-16
C-F-2/C5.51	FW-E11-3146-6W10	20" tee to elbow	3146-5	2	MT	N/A	6-Apr		MT-11	R7-17
	FW-E11-3146-6W10	20" tee to elbow	3146-5	3	UT	FER-41	8-Apr	PDI-1-C10	UT-01	R7-17
C-F-2/C5.51	FW-E11-3146-6WH	24" tee to pipe	3146-5	2	MT	N/A	3-Apr		MT-08	R7-18
	FW-E11-3146-6WH	24" tee to pipe	3146-5	3	UT	FER-43	4-Apr	PDI-1-C03	UT-01	R7-18
C-F-2/C5.51	FW-E11-3158-10WF4	20" pipe to nozzle	3158-5	2	MT	N/A	14-Apr		MT-05,05R	R7-19
	FW-E11-3158-10WF4	20" pipe to nozzle	3158-5	3	UT	FER-42	14-Apr	PDI-1-C18		R7-19
C-F-2/C5.51	SW-N-30-3258-19WJ	26" pipe to reducer	3258-5	2	MT	N/A	7-Apr		MT-12	R7-20
	SW-N-30-3258-19WJ	26" pipe to reducer	3258-5	3	UT	FER-5	8-Apr	PDI-1-C09	UT-01	R7-20
C-F-2/C5.52	SW-N-30-3258-19WJLU	intersecting long seam weld	3258-5	2	MT	N/A	7-Apr		MT-13	R7-20
	SW-N-30-3258-19WJLU	intersecting long seam weld	3258-5	3	UT	FER-5	8-Apr	PDI-1-C09	UT-02	R7-20
C-F-2/C5.51	SW-E11-3035-5WE	6" tee to reducer	3035-5	2	MT	N/A	8-Apr		MT-14	R7-21
C-F-2/C5.51	FW-E11-3157-0W6	16" pump to expander	3157-5	2	MT	N/A	31-Mar		MT-06	R7-22
	FW-E11-3157-0W6	16" pump to expander	3157-5	3	UT	FER-40	31-Mar	PDI-1-C01	UT-01	R7-22
C-F-2/C5.51	FW-E21-3144-0W1	12" pump to expander	3144-5	2	MT	N/A	30-Mar		MT-01	R7-23

C-F-2/C5.51	FW-E21-3147-16W17	12" elbow to pipe	3147-5	2	MT	N/A	3-Apr		MT-09	R7-24
	FW-E21-3147-16W17	12" elbow to pipe	3147-5	3	UT	PDI -1 Alt.	6-Apr	PDI-1-C04-5	UT-01	R7-24
C-F-2/C5.51	SW-E21-3149-4WD	20" pipe to tee	3149-5	2	MT	N/A	1-Apr		MT-07	R7-25
	SW-E21-3149-4WD	20" pipe to tee	3149-5	3	UT	PDI -1 Alt.	1-Apr	PDI-1-C02	UT-01	R7-25
C-F-2/C5.51	FW-E41-3163-7W0	16" pipe to valve	3163-5	2	MT	N/A	8-Apr		MT-15	R7-26
	FW-E41-3163-7W0	16" pipe to valve	3163-5	3	UT	FER-85	10-Apr	PDI-1-C11	UT-01	R7-26
C-F-2/C5.51	FW-T48-04-2095-11W12	6" pipe to elbow	2095-5	2	MT	N/A	30-Mar		MT-03	R7-27
C-F-2/C5.51	FW-T48-04-2097-8W9	6" elbow to pipe	2097-5	2	MT	N/A	30-Mar		MT-04	R7-28
C-F-2/C5.51	SW-T48-04-2097-21WB	8" elbow to pipe	2097-5	7	VT-1	N/A	5-Apr		VT-02	R7-29
C-F-2/C5.51	FW-T48-04-2097-20W21	8" pipe to tee	2097-5	2	MT	N/A	8-Apr		MT-16	R7-30
C-F-2/C5.51	SW-T48-04-2097-25WF	10" elbow to elbow	2097-5	7	VT-1	N/A	5-Apr		VT-01	R7-31
C-F-2/C5.81	SW-E11-3146-5WC	24" pipe to weldolet	3146-5	2	MT	N/A	3-Apr		MT-10	R7-32
Augmented	FW-N20-3107-0W17	20" safe end to pipe (dm)	3107-1	3,4	UT	FER-11, 88	10-Apr	PDI-1-C12-14	UT-01	R7-33
GL 88-01								PDI-2-C04-06	UT-01	
Augmented	SW-N20-03-B014-BWSE	20" nozzle to safe end (dm)	3107-1	3,4	UT	FER-11, 88	10-Apr	PDI-1-C12-14	UT-02	R7-34
GL 88-01								PDI-2-C04-06	UT-02	
Augmented	FW-N20-3105-16W0	20" elbow to safe end (dm)	3105-1	3,4	UT	FER-11, 88	6-Apr	PDI-1-C06-08	UT-01	R7-35
GL 88-01								PDI-2-C01-03	UT-01	
Augmented	SW-N20-03-B014-AWSE	20" safe end to nozzle (dm)	3105-1	3,4	UT	FER-11, 88	6-Apr	PDI-1-C06-08	UT-02	R7-36
GL 88-01								PDI-2-C01-03	UT-02	
GE recommended exam	Steam Dryer	Support Ring Indications	5364-5	9	UT	CAL-DSR01	18-Apr	SDSR-CAL1/2	Dat-1/2	SDSR

GE recommended exam

Procedure	Reference Code	Procedure	Reference Code
39.NDE.001	1	UNIXDETC	5
39.NDE.002	2	Fermi-800-1/2	6
PDI-UT-1	3	43.000.019	7
PDI-UT-2	4	43.000.004	8

SECTION 3

SUMMARY OF IVVI AUGMENTED EXAMINATIONS

3. Code Category

Code Category
B-N-1 and B-N-2 Inspections
Interval 2, Period 1, RF-07

Components	Technique	Requirement	Results / Remarks
Brackets			
Steam Dryer Support (4)	EVT-1	BWRVIP-48	NRI
Feedwater Spargers (6)	EVT-1	BWRVIP-48	NRI
Guide Rod Bracket @ 180^0	EVT-1 / VT-3	BWRVIP-48	NRI
Core Spray Piping (4)	EVT-1	BWRVIP-48	NRI
Feedwater			
Spargers	VT-3	NUREG-0619	NRI
Nozzles	EVT-1	NUREG-0619	NRI
Core Spray			
Piping / Welds	EVT-1	BWRVIP-18	NRI (Note 1)
Spargers	EVT-1	BWRVIP-18	NRI
Jet Pump			
Risers (JP #7 & 8)	EVT-1	BWRVIP-41	RI (Note 2)
Risers (JP #11-20)	EVT-1	BWRVIP-41	NRI
Assemblies (JP #11-20)	EVT-1	BWRVIP-41	NRI
Set Screw Tack Welds	EVT-1	SIL 574	NRI
Sensing Lines	VT-3	SIL 420	NRI
Dry Tubes			
4-SRM	VT-1	SIL 409 /	NRI
8-IRM	VT-1	RICSIL-073	NRI
Top Guide / Core Plate			
8 locations Top Guide	VT-1	SIL 554	NRI
Core Plate Bolts (4 locations)	VT-1	SIL 588 R1	NRI
Shroud			
H2 Indication	EVT-1	BWRVIP-07	No change in indication
Shroud Support	EVT-1	BWRVIP-07	NRI (Note 3)
Gussets	EVT-1	BWRVIP-07	NRI (Note 3)
Steam Dryer			
Assembly 30%	VT-3	SIL 274	No change
Previous Indications	VT-3/UT		Indications have shallow depth as expected
Steam Sparger			
Assembly 30%	VT-3		NRI
Shroud Head Bolts 50%	VT-3	SIL 433	NRI

Components	Technique	Requirement	Results / Remarks
Control Rod Blade			
O2-39	EVT-1	CARD 98-17816	Re-look of previous indication – no significant changes.
RPV Seal Surface			
Head Flange	VT-1		NRI
Vessel Flange	VT-1		
O-Rings	VT-1 (Direct)		NRI
Vessel Cladding	VT-3		NRI
Control Rod Guide Rods	EVT-1/VT-3	BWRVIP-47	NRI

Notes:

(1) Examined accessible areas of all welds except P-1, which was inaccessible.

(2) Reinspected indication adjacent to RS-1 weld (1.75") identified RF-06 (10/98) no charge in length observed.

(3) Examined H-8 and H-9 at 0^0 and 180^0 only. Examined accessible areas of gussets between Jet Pumps #11-20.

(4) All assembly welds visually inspected expect for welds DF-3, AD-1 and AD-2, which are inaccessible for VT inspection. UT Technique not available.

SECTION 4

SUMMARY OF COMPONENT SUPPORT EXAMINATIONS

4. SUMMARY OF COMPONENT SUPPORT EXAMINATIONS

4.1. ASME SECTION XI - IWF (Class 1 and 2) Credit for Component Supports for Interval 2, Period 1, Refuel-07.

4.1.1. VT-3 performed on various, system and component supports.

CLASS	COMPONENT SUPPORTS	SNUBBERS (1)	TOTAL
1	5	35	40
2	20	45	65
3	10	3	13

4.1.2. Functional Testing for ASME Section XI, Article IWF-5000 snubbers was performed in accordance with EF-2 Technical Requirements Manual for functional testing of snubbers (Ref. Paragraph 5.1.)

4.2. Technical Specification Examinations

4.2.1. Refuel-07 Examinations

1. VT-3 examinations were performed on all Safety Related and Non Safety Related snubbers selected for functional testing per Technical Requirements Manual 5.1. Total examined was 223.

2. A total of 66 safety related snubbers per the Technical Requirements Manual Snubbers were initially selected at random and functionally tested. One additional snubber that failed functional testing during RF06 was also functionally tested as required by the Technical Requirements Manual.

3. Seal Life Changeout was performed on 27 Snubbers.

4. An additional 124 pre-service examinations were completed, resulting from the installation of additional supports due to a plant modification.

4.3. PRESERVICE EXAMINATIONS

A preservice visual examination was performed for Technical Requirements Manual Snubbers and ASME Section XI supports which were modified, replaced, added, or repaired during refueling outage RF-07 (includes seal life changeout).

NOTE

(1) All Snubbers were visually inspected to the requirements of the Technical Requirements Manual 5.1 and ASME Section XI using Level I, Level II and III, VT-3 certified inspectors.

SECTION 5

ABSTRACT OF CONDITIONS NOTED

AND CORRECTIVE ACTIONS TAKEN

5. ABSTRACT OF CONDITIONS NOTED AND CORRECTIVE ACTIONS TAKEN

5.1. Refuel-07

Nondestructive examinations have verified that RPV and internals piping systems, and supports are in good structural condition and can support safe and reliable operation during this operating cycle.

5.1.1. RPV Internals

During RF-07 inspections were conducted on numerous reactor vessel components utilizing the recommended inspection methods and techniques contained in various Boiling Water Reactor Vessel Internals Project (BWRVIP) inspection and examination guidelines as well as the augmented inspections identified in Section 6. While it is true that many of the guidelines are not yet approved by the NRC, the intent was to perform the highest quality visual inspections on RPV components. This proactive approach will assure the structural integrity of RPV components.

Inspections were initially scheduled for 50% of the jet pump risers and assemblies (#11-20) to comply with BWRVIP-41 inspection recommendations. These inspection points included welds not previously inspected. During RF06 a crack approximately 1 ¾" long was identified on the thermal sleeve to elbow weld (RS-1) on the riser of jet pumps 7 and 8 at 120^0 AZ. This indication was evaluated and found acceptable for continued operation without repair. This indication was reinspected during RF07 and there was no observable change in length or width. This indication is within the allowable flaw acceptance tolerance for this location and repair is not necessary. Re-inspection of this indication will again be performed during RF-08. This crack is similar to indications identified at least 5 other BWR plants.

All accessible and welds and locations on Jet Pumps assemblies #11-20 were inspected and no recordable indication were identified. A baseline inspection has been completed for all Jet Pump welds (#1-20) with the exception of welds DF-3, AD-1 and AD-2. Inspection of these locations will be conducted during future outages when a technique is developed and qualified. Reinspections on 1 of the 20 original control rod blades (02-39) identified very little change from the cracking on the sheath area near the handle on blade identified in RF06. These indications were evaluated and are not detrimental to the operation of the control blade. While not a code inspection, several blades were periodically inspected as recommended by General Electric, following the chemistry transient in 1993.

No new indications were identified on the steam dryer assembly welds in areas not previously inspected. Both ISI and General Electric previously evaluated the indications. No repairs were required during RF-07. In addition, selected linear indications on the steam dryer support ring were ultrasonically inspected to determine the depth. The indications are shallow, less than ½" in depth, and pose no threat to the integrity of the steam dryer assembly. Visual and ultrasonic inspections will be performed during future outages.

Indications and conditions identified during previous outages were reinspected during RF-06. The reinspection included the following items with no further degradation identified.

- Core Shroud ID linear indication above the H2 weld.
- Steam Dryer tie round nut to washer tack welds cracks and support ring.
- RPV internal surfaces - "Bathtub Ring".
- SRM / IRM Dry Tubes.

The jet pump restrainer screws were again inspected (80 tack welds). The conditions were unchanged this outage on jet pump #15, which had one of 2 tack welds cracked. No additional cracked welds were found. The condition identified previously did not require repair this outage.

Extensive inspection of Core Spray internal piping and spargers were performed per BWRVIP-18 Guidelines. No indications of cracking were identified. All accessible areas of welds were inspected with the exception of the P-1 weld, which is inaccessible for inspection.

No adverse changes in existing indications were noted. The RPV internals are in very good condition to date. There is no service related degradation that should impact plant performance during the next operating cycle. Internal inspections are achieving their goal of detecting and monitoring degradation and effecting prudent repairs/replacement to maintain the plant in a safe and reliable manner.

5.1.2. RPV External Volumetric and ASME Piping Weld Examinations

No service related defects were detected during RF-07 by non-destructive examinations performed.

5.1.3. Components Supports

Hanger E11-3184-G18 was found to have a loose jamb nut on the main strut and was tightened. It was determined that this did affect operability

Hangers N30-3258-G02, G03, G08, G10, G11, G12, G14, G15, G16, N30-3259-G06, G07 and G08 were found with notches worn on the threaded rod at the top of the support. This condition was evaluated and it was determined that this did not impact component operability. Hangers N30-3258-G07 and G08 the notches were blended to remove sharp edges.

Hangers N30-3258-G04 and G15 were found to be slightly outside their cold setting. It was determined that this did not impact component operability. The hangers were reset to their cold position.

These conditions were not reportable.

5.2. Refuel-06

5.2.1. RPV Internals

During RF-06 inspections were conducted on numerous reactor vessel components utilizing the recommended inspection methods and techniques contained in various Boiling Water Reactor Vessel Internals Project (BWRVIP) inspection and examination guidelines. While it is true that many of the guidelines are not yet approved by the NRC, the intent was to perform the highest quality visual inspections on RPV components. This proactive approach will assure the structural integrity of RPV components.

Inspections were initially scheduled for 50% of the jet pump risers and assemblies to comply with BWRVIP inspection recommendations. These inspection points included welds not previously inspected on the risers. A crack approximately 1 ¾" long was identified on the thermal sleeve to elbow weld (RS-1) on the riser of jet pumps 7 and 8 at 120^0 AZ. This indication was evaluated and found acceptable for continued operation without repair. Re-inspection of this indication will be performed during RF-07. This crack is similar to indications identified at least 5 other BWR plants within the last year.

Inspections of 2 of the 20 original control rod blades identified cracking on the sheath area near the handle on blade 02-39. These indications were evaluated and are not detrimental to the operation of the control blade. However, Reactor Engineering is evaluating future inspection requirements for the additional old style blades. While not a code inspection, these blades are periodically inspected as recommended by General Electric, following the chemistry transient in 1993.

Several new indications were identified on the steam dryer assembly on welds or areas not previously inspected. These indications are similar to other previously reported indications on the dryer. Both ISI and General Electric evaluated the indications. No repairs were required during RF-06, but recommendations were made to re-inspect the non-safety related dryer assembly, both visually and ultrasonically in future outages.

Indications and conditions identified during previous outages were reinspected during RF-06. The reinspection included the following items with no further degradation identified.

- Core Shroud ID linear indication above the H2 weld.
- Steam Dryer tie round nut to washer tack welds cracks and support ring.
- Shroud head bolt #9 was replaced because it would not latch.
- RPV internal surfaces - "Bathtub Ring".

The jet pump restrainer screws were again inspected (80 tack welds). The conditions were unchanged this outage on jet pump #15, which had one of 2 tack welds cracked. No additional cracked welds were found. The condition identified previously did not require repair this outage.

Extensive inspection of Core Spray internal piping and spargers were performed per BWRVIP-18 to address recent industry occurrences of cracking. No indications of cracking were identified.

The Core Shroud was ultrasonically inspected as required by NRC commitment in accordance with the latest techniques and methods included in the BWRVIP inspection standards. Fermi 2 surpassed eight years of hot operating time, as a result inspection of the H3, H4, H5, and H7 welds were required. Inspections were performed using focused phased array ultrasonic techniques. This inspection identified no evidence of IGSCC in the welds and because of the extensive coverage obtained with the GE tooling, reinspection will not be required for 6 years.

No adverse changes in existing indications were noted. The RPV internals are in very good condition to date. There is no service related degradation that should impact plant performance during the next operating cycle. Internal inspections are achieving their goal of detecting and monitoring degradation and effecting prudent repairs/replacement to maintain the plant in a safe and reliable manner.

5.2.2. RPV External Volumetric and ASME Piping Weld Examinations

No service related defects were detected during RF-06 by non-destructive examinations performed.

Examinations were encountered with physical limitations that prevented complete code coverage from being achieved. Relief requests have been prepared or are being revised to address all limitations encountered during the First Inspection Interval.

NDE examinations have verified that ASME piping systems are in good structural condition and can support safe and reliable operation during the next operating cycle.

5.2.3. Components Supports

Eight component supports were discovered with minor service related discrepancies from the RF-06 inspection population of 138 component supports. Structural integrity evaluations were performed which concluded all component supports satisfied operability requirements. Therefore no reportable conditions exist.

5.3. Refuel-05

5.3.1. RPV Internals

During RF-05 two new concerns were identified and evaluated. Nine of the twelve SRM / IRM dry tubes were found not to be fully engaged in the top guide, but are sufficiently engaged to remain functional.

One of the two tack welds on a Jet Pump restrainer screw were found to be cracked. As a result, all 80 restrainer screw tack welds were inspected. No additional cracked welds were found. This condition did not require repair this outage.

Extensive inspection of Core Spray internal piping and spargers was performed to address recent industry occurrences of cracking. No indications of cracking were identified.

Indications identified during previous outages were reinspected during RF-05. The reinspection included the following items:

- Core Shroud ID linear indications above the H2 weld.
- Steam Dryer tie-rod nut to washer tack welds cracks.
- Steam dryer support ring.
- RPV internal surfaces at the "bathtub ring".

No adverse changes in existing indications were noted. The RPV internals are in very good condition to date. There is no service related degradation that should impact plant performance during the next operating cycle. Internals inspections are achieving their goal of detecting and monitoring degredation and effecting prudent repairs/replacements to maintain the plant in a safe and reliable manner.

Repairs or Replacements Completed	Outage(s)
Shroud Head Bolt replacement	RF-04, RF-05
Jet-Pump Beam replacement	RF-04
Steam Dryer End Panel repair welding	RF-03

5.3.2. Reactor Pressure Vessel External/Volumetric and ASME Piping Weld Examinations

No service related defects were detected during nondestructive examinations performed during RF-05.

While it is still to early to draw any global conclusions about effectiveness of IGSCC mitigation treatments (IHSI, and MSIP) performed at Fermi, preliminary indications are good. No IGSCC has been detected to date in any piping welds. Additionally, no evidence of fatigue cracking has been detected in any RPV, piping system, or support welds.

5.3.3. Component Support

Several component supports were found with discrepancies between the existing field configuration versus as-built hanger sketch. Deviation Event Reports were issued to perform structural integrity calculations. These evaluations determined that the existing field configurations did not effect the component operability; no reportable configurations were found. No additional component supports were examined as a result of these observations.

5.4. Refuel-04

5.4.1. RPV Internals

During inspection of the RPV Internals/Internal Components a number of indications were reported to Detroit Edison for review/disposition. The reported conditions are listed as follows:

1. Core Shroud - Extensive Visual Examination of the Core Shroud outside surface welds was performed following hydrolazing of each weld. The circumferential welds on the outside surface of the Core Shroud were visually examined (VT-1) to the maximum extent possible from the H-1weld through the H-7 weld with no indications being found. The H-8 and H-9 shroud support welds were also examined (VT-3) but from a greater distance and at a greater camera angle. No indications were found.

2. Core Shroud Inside Surface - The inside surface of the Core Shroud was inspected to the maximum extent on the H-2 through H-4 welds (VT-1). No indications were found on the H-3 and H-4 welds on the inside surface of the shroud. Two small indications <1-inch long were found at the 125 degree azimuth just above the H-2 weld but not in the H-2 weld. These indications were in a general vertical direction, jagged in nature, and tight with no visible separation. These indications appear to be different from indication found at other BWR's and most probably are a result of cold working during the fabrication process. These indications were evaluated against established flaw screening criteria and have no significant effect on the structural integrity of the shroud. (DER 94-0221)

3. Corrosion Deposits/Biological Growth Deposits - Unusual surface conditions were identified during IVVI examinations on the unclad feedwater nozzles and also on the RPV cladding near the steam line nozzles 360° around the vessel. As a result, a sampling dive into the RPV was performed. A diver successfully completed the necessary corrosion product sampling, visual examinations, and exploratory examinations in the Reactor Vessel. Corrosion deposit samples were removed from both the "C" feedwater nozzle unclad area (150°) and the cladding at approximately the same azimuth. Based on the results of the sampling, there was no evidence of micro biologically induced corrosion (MIC) in the vessel, although the samples did test positive for the presence of bacteria. (DER 94-0204)

   Additionally, the diver found (loose corrosion) on the feedwater nozzles. The deposits were easy to scrape off. There was no base metal attachment to the unclad surfaces. The corrosion deposits on the vessel cladding (360°) were found to be more tightly adhered than the deposits on the feedwater nozzles. However, the vessel cladding corrosion deposits have been looked at and have been confirmed that there had been no base metal attack.

No pits or degradation of the cladding were identified. A special hydrolazing nozzle was utilized to remove the corrosion deposits on both the feedwater nozzles and the vessel cladding. The hydrolyzing was 100 percent effective in cleaning the feedwater nozzles and approximately 75 percent effective in removing the deposits on the vessel cladding.

4. Steam Dryer - Tie Rod Nut/Washer Tack Welds - Many of the 48 tie rod end washers/nuts protrude above the unit end plate surface. Fifteen of the protruding tie rods had cracked tack welds; however, all but 4 of these had at least 2 intact tack welds at each location. The remaining 4 tie rod nut/washers which had failed tack welds of not represent structural or functional concern. There is little or no concern that these four nuts will back out during the current cycle with the remaining sound weld. Repairs made during RF-03 on the hood to end panel welds were re-inspected and found to be in good condition. (DER 94-0194)

5. Steam Dryer Support Ring - Two small indications were identified on the steam dryer support ring this outage one indication was approximately 1/2" in length on the vertical face of the ring, the other indication was 4" - 6" in length on the horizontal face of the support ring. Based on experience with support ring cracking on similar dryers, these indications were caused by IGSCC. The primary source of stress is residual fabrication stress. Based on experience from similar dryers of the same design with more severe cracking, this crack does not present a concern for the structural adequacy of the support ring. (DER 94-0194)

6. Shroud Head Bolts - All Shroud Heads were examined using Improved Ultrasonic Testing procedures. Crack-like indications were found in 16 of 48 bolts. The crack location was identical to those found at other BWRs (i.e., at the collar crevice). The 16 cracked bolts were replaced with those of a new and more IGSCC crack resistant design. A 17th bolt was replaced since it had a slight bow that precluded reinstallation. The remaining old design bolts which had no indications were reviewed and found to be acceptable for the next operation cycle. These bolts were reinstalled returning the configuration to the original design of 48 bolts. A design review was performed, in part, to determine the structural significance of operating with indications in 16 shroud head bolts. This review determined that only 20 bolts are required to fulfill design requirements. (DER 94-0210)

Jet Pump Hold Down Beams - As a precaution Detroit Edison replaced the (20) jet pump hold down beams. This was done as a conservative measure based on recent industry experience with beam cracking and possible deleterious effects from the chemistry transient. Following replacement Detroit Edison performed a baseline pre-service examination of the installed beams prior to plant start-up using the latest available technique for detecting cracking. Of the 20 jet pump assemblies, 12 beam bolt assemblies were changed in situ, 7 required that the inlet mixer assembly be removed, and 2 mixer assemblies were removed to permit camera access to the RPV bottom head area. Each mixer which was removed had an inserted for RPV bottom area examination. No discrepancies were observed. (DER 93-0643)

5.5. Refuel-03

5.5.1. RPV Internals

During inspection of the RPV Internals/Internal Components two cracks were reported to Detroit Edison for review/disposition. The reported conditions are listed as follows:

- Crack Number 1 was located in hood to end plate weld HE-B-1. The crack was approximately 50" long, with a maximum gap of 1/2 inch. The crack ran through the throat of the weld and was caused by high cycle fatigue. This crack is not uncommon to the industry, having occurred at other plants.

- Crack Number 2 is located in the end plate of dryer bank "A" just above the weld to the end plate of the drain trough. The crack is in the weld heat affected zone (HAZ) between Tie Rods TR-A-7 and TR-A-8. The crack is caused by Intergranular Stress Corrosion Cracking (IGSCC).

Crack Number 1 was repaired by grinding out the existing failed weld and preparing the base metal edges for the new weld, clamping the crack closed, rewelding the hood to end plate joint, and welding a new reinforcing plate over the replaced/existing weld. With the exception of the original failed weld repair, this repair process was repeated at three (3) similar locations where the potential future weld failure was high. This was performed as a preventive measure to preclude future joint failure, higher personnel exposure, and higher future repair costs.

An evaluation was performed on Crack Number 2, and it was determined that this crack did no require repair as there is low probability that this crack will propagate into weld or base metal outside the HAZ. The crack will tend to grow at a slow rate, as the stresses at this crack location during dryer operation are low. Crack Number 2 will continue to be monitored during future outages.

These indications previously identified during inspections performed in RF-01 and RF-02 were again reinspected with no change in conditions noted. These areas in addition to the cracks identified and repairs performed during RF-03 will be monitored during further inspection of the RPV internals as required by ASME Section n XI, Table IWB-2500- (B13.10).

5.5.2. Component Supports

Several hangers were found with discrepancies between the installed condition and their configuration documents. Deviation Event Report (DER) 92-0573 was initiated for evaluation. It was determined that their nature was such that it did not effect the components operability and was no reportable. No additional supports were inspected as a result of these observations.

5.6. Refuel-02

5.6.1. RPV Internals

During inspection of the RPV Internals/Internal components an additional indication to the ones previously identified during RF-01 were reported to Detroit Edison for review/disposition. The reported indications are listed as follows:

- Apparent arc strike was noted on core spray internal piping at 310° this was not recorded in the previous inspection.

This condition and those previously identified during RF-01 were evaluated using prudent engineering practices and were determined not to be non-conforming to the original design requirement or detrimental to continued service.

No corrective action was taken to repair these indications. These areas will be monitored during future inspections of the RPV internals as require by ASME Section XI Table IWB-2500-1 (B13.10)

5.6.2. Piping Welds

No service related defects were detected during the inspection of piping welds, 2 welds having rejectable indications were reported to Detroit Edison for review/disposition. The reported indications are listed as follows:

- Weld SW-E11-3151-1WH had rejectable surface indications identified during the magnetic particle examination; DER 91-0262 was initiated for evaluation.

- Weld SW-RD-2-B3-W5LU-B had rejectable surface indications identified during the liquid penetrant examination; DER 91-0234 was initiated for evaluation.

Both welds were subsequently blend ground to remove the indications and reexamined by both surface and volumetric techniques with acceptable results. The initial indications on both welds were most likely left over from construction. No additional welds were inspected as a result of these minor indications.

5.7. Refuel-01

5.7.1. RPV Internals

During inspection of the RPV Internals/Internal components several conditions were reported to Detroit Edison for review/disposition. The reported indications are listed as follows:

- Tack weld on feedwater sparger bracket at 180° for attachment nut/pin was not visible.
- Unusual surface conditions (arc strikes and pitting) were noted on Loop A Core Spray Piping at approximately 140°. Additional light scratches were noted on both Loop A and Loop B Core Spray Internal Piping.
- Small arc strikes were noted on the Core Spray Internal piping/sparger brackets at 15° and 150°.
- A small arc strike was noted on the Upper Core Spray Sparger (shroud area) at 145°.

The above conditions were evaluated using prudent engineering practices and were determined not to be non-conforming to the original design requirement or detrimental to continued service.

No corrective action was taken to repair these indications. These areas will be monitored during future inspections of the RPV internals as require by ASME Section XI Table IWB-2500-1 (B13.10)

5.7.2. Component Supports

Hanger T48-2097-G21 was found to have insufficient clearances. Deviation Event Report (DER) 89-1315 was initiated for evaluation. It was determined that this was not reportable. The hanger was reworked to provide acceptable clearances as specified on the hanger sketch. Additional adjacent supports were visually inspected with no discrepancies identified.

SECTION 6

PROGRAM STATUS, ASME SECTION XI CREDIT – IWB, IWC & IWF

6. PROGRAM STATUS, ASME SECTION XI CREDIT - IWB, IWC, & IWF, Interval 2, Period 1, Refuel 07 (Excludes Pressure Testing)

6.1. CATEGORY B-A

6.1.1. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B.1.11 Shell Welds-Circumferential

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	4	0 (Note 1)	0	0%
TOTALS:	4	0 (Note 1)	0	0%

NOTE

(1) Relief Request RR-A25 was submitted during to negate the need to examine these welds.

6.1.2. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B.1.12 Shell Welds - Longitudinal

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	14	14	0	0%
TOTALS:	14	14	0	0%

6.1.3. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B.1.21 Head Welds - Circumferential

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV Closure Head	2	2	0	0%
RPV Bottom Head	2	2 (1)	0	0%
TOTALS	4	3 (1)	0	0%

NOTE

(1) Some of these examinations are subject to limitations as identified in ISI/NDE Program Plan, Table A. Relief Request RR-A1 documents these limitations.

6.1.4. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B1.22 Head Welds - Meridional

System	Total Comp	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV Closure Head	13	13	0	0%
RPV Bottom Head	17	17(1)	0	0%
TOTALS:	30	30 (1)	0	0%

NOTE

(1) Some of these examinations are subjected to limitations as identified in ISI/NDE Program Table A. Relief Request RR-A1 documents these limitations.

6.1.5. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B1.30 Shell-To-Flange

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	1	1	0	0%
TOTALS:	1	1	0	0%

NOTES

(1) The examination of shell-to-flange welds may be performed during the first and third inspection periods in conjunction with the nozzle examinations of Exam. Cat. B-D (Program B). At least 50% of shell-to-flange welds shall be examined by the end of the first inspection period, and the remainder by the end of the third inspection period. (Ref. IWB-2500-1, Category B-A, Footnote (4)).

6.1.6. CATEGORY: B-A Pressure Retaining Welds in Reactor Vessel
ITEM NO: B1.40 Head-To-Flange

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	1	1	0 (1)	0%
TOTALS:	1	1	0 (1)	0%

CATEGORY B-A Totals

Item No.	Total Requiring Examination	Examined To Date (3)	Minimum Required (1)	Maximum Allowed
B1.12	14	0 (0%)	N/A	(2)
B1.21	4	0 (0%)	N/A	(2)
B1.22	30	0 (0%)	N/A	(2)
B1.30	1	0 (0%)	N/A	(2)
B1.40	1	0 (0%)	N/A	(2)
TOTALS:	50	0 (0%)	N/A	34%

NOTES

(1) Table IWB-2500-1 allows deferral to the end of the inspection interval. However, maximum credited/allowed shall not exceed percentages provided in Table IWB-2412-1.

(2) Exam percentage requirements are based on category totals, not item totals. Item percentages are provided for information only.

(3) Some of these examinations are subject to limitations as identified in ISI/NDE Program Plan A Table. Relief Request RR-A1 documents these limitations.

6.2. CATEGORY B-D

6.2.1.

CATEGORY: B-D Full Penetration Welds of Nozzles in Vessels
ITEM NO: B3.90 Nozzle-To-Vessel Welds

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	30	30	0	0%
TOTALS:	30	30	0	0%

NOTE

(1) At least 25% but not more than 50% (credited) of the nozzles shall be examined by the end of the first inspection period and the remainder by the end of the inspection interval (Ref. Table IWB-2500-1, Category B-D, Footnote (2)).

6.2.2.

CATEGORY: B-D Full Penetration Welds of Nozzles in Vessels
ITEM NO: B3.100 Nozzle Inside Radius Section

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	30	30	3	0%
TOTALS:	30	30	3	0%

NOTE

(1) At least 25% but not more than 50% (credited) of the nozzles shall be examined by the end of the first inspection period and the remainder by the end of the inspection interval (Ref. Table IWB-2500-1, Category B-D, Footnote (2)).

CATEGORY B-D TOTALS

Item No.	Category B-D Totals Total Requiring Examination	Examined to Date	Minimum Required (1)	Maximum Allowed (1)
B3.90	30	0 (0%)	(1)	(1)
B3.100	30	3 (10%)	(1)	(1)
TOTALS:	60	3 (5%)	(1)	50%

NOTE

(1) At least 25% but not more than 50% (credited) of the nozzles shall be examined by the end of the first inspection period and the remainder by the end of the inspection interval (Ref. Table IWB-2500-1, Category B-D, Footnote (2)).

6.3. CATEGORY B-F

6.3.1. CATEGORY: B-F Pressure Retaining Dissimilar Metal Welds
ITEM NO: B5.10 RPV Nozzle to Safe End Butt Welds ≥ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RRS	14	14	3	21%
CS	2	2	1	50%
CRDHR	1	1	0	0%
TOTALS:	17	17	4	23%

6.3.2. CATEGORY: B-F Pressure Retaining Dissimilar Metal Welds
ITEM NO: B5.20 RPV Nozzle to Safe End Butt Welds ≤ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
SLC	1	1	1	100%
TOTALS:	1	1	1	100%

6.3.3. CATEGORY: B-F Pressure Retaining Dissimilar Metal Welds
ITEM NO: B5.130 Piping Butt Welds ≥ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RHR	3	3	0	0%
CS	2	2	0	0%
RWCU	2	2	0	0%
TOTALS:	7	7	0	0%

CATEGORY B-F TOTALS

Item No.	Category B-F Totals Total Requiring Examination	Examined to Date	Minimum Required (1)	Maximum Allowed (1)
B5.10	17	4 (23%)	N/A	N/A
B5.20	1	1 (100%)	N/A	N/A
B5.130	7	0 (0%)	N/A	N/A
TOTALS:	25	5 (20%)	0%	34%

NOTE

(1) Exam percentage requirements are based on Category totals, not item totals. Item percentages are supplied for information only.

6.4. CATEGORY B-G-1

6.4.1.

CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.10 Closure Head Nuts

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	68	68	0	0%
TOTALS:	68	68	0	0%

6.4.2.

CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.20 Closure Studs in Place

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	68	64 (1)	0	0%
TOTALS:	68	64 (1)	0	0%

NOTES

(1) Inspections are performed in conjunction with item No. B6.30. Four (4) studs are removed at each Reactor Refuel.

6.4.3.

CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.30 Closure Head Studs when Removed

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	68	4 (1)	0	0%
TOTALS:	68	4 (1)	0	0%

NOTES

(1) Inspections are performed in conjunction with item No. B6.20. Four (4) studs are removed at each Reactor Refuel.

6.4.4. CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.40 Reactor Vessel Threads in Flange

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	68	68	0	0%
TOTALS:	68	68	0	0%

6.4.5. CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.50 Reactor Vessel Closure Washers, Bushings (When Removed)

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
	Washers			
RPV	68	68	0	0%
	Bushings			
	68	4 (1)	0	0%
TOTALS:	Washers			
	68	68	0	0%
	Bushings			
	68	4 (1)	0	0%

NOTE

(1) Inspection of bushings is only required when the connections are disassembled.

6.4.6. CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.180 Pumps, Bolts and Studs

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RRS	32	32	0	0%
TOTALS:	32	32	0	0%

6.4.7. CATEGORY: B-G-1 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B6.200 Pumps, Nuts, Bushings and Washers (1)

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RRS	32	32	0	0%
TOTALS:	32	32	0	0%

NOTES

(1) Inspections are performed in conjunction with Stud UT inspection per item B6.180.

CATEGORY: B-G-1 TOTALS

Item No.	Total Requiring Examination	Examined To Date	Minimum Required (1)	Maximum Allowed (1)
B6.10	68	0 (0%)	N/A	N/A
B6.20	64	0 (0%)	N/A	N/A
B6.30	4	0 (0%)	N/A	N/A
B6.40	68	0 (0%)	N/A	N/A
B6.50	72	0 (0%)	N/A	N/A
B6.180	32	0 (0%)	N/A	N/A
B6.200	32	0 (0%)	N/A	N/A
TOTALS:	340	0 (0%)	N/A	34%

NOTES

(1) Exam percentage requirement are based on Category totals, not item totals. Item percentages are shown for information only.

6.5. CATEGORY B-G-2

6.5.1.

CATEGORY: B-G-2 Pressure Retaining Bolting Greater than 2" in Dia.
ITEM NO: B7.10 Reactor Vessel-Bolts, Studs and Nuts

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV	3 (1)	3 (1)	0	0%
TOTALS:	3 (1)	3 (1)	0	0%

NOTES

(1) Represents Flanged/Bolted Connections-All bolts, studs and nuts were examined for each flanged connection examined.

6.5.2.

CATEGORY: B-G-2 Pressure Retaining Bolting 2" and smaller in Dia.
ITEM NO: B7.50 Piping-Bolts, Studs and Nuts

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
HPCI, & RCIC	2 (1)	2 (1)	0	0%
TOTALS:	2 (1)	2 (1)	0	0%

NOTES

(1) Represents Flanged/Bolted Connections-All bolts, studs and nuts were examined for each flanged connection examined.

6.5.3. CATEGORY: B-G-2 Pressure Retaining Bolting 2" and smaller in Dia.
ITEM NO: B7.60 Piping-Bolts, Studs and Nuts-Seal Bolting

System	Total Comp.	Total Requiring Examination	Examined To Date (1)	Examined To Date (%)
RRC	2	2	0	0%
TOTALS:	2	2	0	0%

NOTES

(1) Represents flanged/bolted connections-all bolts, studs and nuts were examined for each connection examined.

6.5.4. CATEGORY: B-G-2 Pressure Retaining Bolting 2" and smaller in Dia.
ITEM NO: B7.70 Valves-Bolts, Studs and Nuts

System	Total Comp.	Total Requiring Examination (1)	Examined To Date (1) (2)	Examined To Date (%)
MS	23	23	4	0%
RRS	4	4	0	0%
RHR	10	10	3	0%
CS	6	6	1	0%
HPCI	3	3	0	0%
RCIC	3	3	1	0%
RWCU	9	9	1	0%
FW	8	8	0	0%
TOTALS:	66	66	10	13%

NOTES

(1) Represents flanged/bolted connections-all bolts, studs and nuts were examined for each flanged connection examined.

(2) All replacement bolting material utilized was visually inspected.

6.5.5. CATEGORY: B-G-2 Pressure Retaining Bolting 2" and smaller in Dia.
ITEM NO: B7.80 CRD Housings-Bolts, Studs and Nuts

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
CRD	185	185 (1)	0	0%
TOTALS:	185	185 (1)	0	0%

*100% of disassembled flange bolting.

NOTES

(1) Inspections are only required when CRD Housing Flanges are disassembled (Ref. Table IWB-2500-1, Category B-G-2)

CATEGORY: B-G-2 TOTALS

Item No.	Total Requiring Examination	Examined To Date	Minimum Required (1)	Maximum Allowed (1)
B7.10	3	0 (0%)	N/A	N/A
B7.50	2	0 (0%)	N/A	N/A
B7.60	2	0 (0%)	N/A	N/A
B7.70	68	10 (15%)	N/A	N/A
B7.80	(1)	0 (0%)	(1)	N/A
	76	10 (13%)	N/A	34%

NOTES

(1) Exam percentage requirements are based on category totals not item totals. Item packages are supplied for information only.

6.6. CATEGORY B-H

6.6.1. CATEGORY: B-H Integral Attachments for Vessels
ITEM NO: B8.10 Reactor Vessel-Integrally Welded Attachments

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RPV Support Skirt	2	2	0	0%
Stabilizer Bracket Welds	8	1	0	0%
Top Head Lifting Lugs	4	4	0	0%
TOTALS:	14	7	0	0%

6.7. CATEGORY B-J

6.7.1. CATEGORY: B-J Pressure Retaining Welds in Piping
ITEM NO: B9.11 Circumferential Welds ≥ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date (1)	Examined To Date (%)
MS	95	47	0	0%
RRS	110	46	0	0%
RHR	72	20	0	0%
CS	46	12	0	0%
HPCI	22	4	0	0%
RCIC	25	7	0	0%
RWCU	58	14	0	0%
FW	105	26	0	0%
RPV/MS	5	3	0	0%
TOTALS:	538	179	(1)	0%

(1) Fermi is in the process of developing a Risk Informed Inservice Inspection program for Class 1 piping.

6.7.2. CATEGORY: B-J Pressure Retaining Welds in Piping
ITEM NO: B9.12 Longitudinal Welds ≥ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
MS	120	59	0	0%
RRS	150	43	0	0%
RHR	6	6	0	0%
TOTALS:	276	108	0	0%

6.7.3. CATEGORY: B-J Pressure Retaining Welds in Piping
ITEM NO: B9.21 Circumferential Welds < 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RWCU	17	5	0	0%
TOTALS:	17	5	0	0%

6.7.4. CATEGORY: B-J Pressure Retaining Welds In Piping
ITEM NO: B9.31 Branch Connection ≥ 4" Dia.

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
MS	17	3	0	0%
RRS	16	4	0	0%
RHR	1	1	0	0%
RCIC	1	1	0	0%
TOTALS:	35	9	0	0%

CATEGORY: B-J TOTALS

Item No.	Total Requiring Examination	Examined To Date (2)	Minimum Required (1)	Maximum Allowed (1)
B9.11	171	0 (0%)	N/A	N/A
B9.12	108	0 (0%)	N/A	N/A
B9.21	5	0 (0%)	N/A	N/A
B9.31	9	0 (0%)	N/A	N/A
TOTALS:	293	0 (0%)	N/A	34%

NOTES

(2) Exam percentage requirements are based on category totals not item totals. Item packages are supplied for information only.

(3) Fermi is in the process of developing a Risk Informed Inservice Inspection program for Class 1 piping.

6.8. CATEGORY B-K-1

6.8.1. CATEGORY: B-K-1 Integral Attachments for Piping Pumps and Valves

ITEM NO: B10.10 / B10.20 Piping-Integrally Welded Attachments

System	Total Comp. (1)	Total Requiring Examination (2)	Examined To Date	Examined To Date (%) (3)
All Class 1 Piping B10.10	13	2 locations (8 welds)	1 location (4 welds)	50%
Pumps B10.20	3	1	0	0%
TOTALS:	13	2	4	33%

NOTES

(1) Total component supports with integral attachments selected for examination per Code Case N-491-1

(2) Total examinations required for integral attachments per Code Case N-509.

(3) One location examined each period.

6.9. CATEGORY B-M-2

6.9.1. CATEGORY: B-M-2 Valve Bodies

ITEM NO: B12.50 Valve Body, exceeding 4" Nominal Pipe Size

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%) (1)
MS	23	23	3 (1)	13%
RRS	4	4	0 (1)	0%
RHR	10	10	3 (1)	33%
CS	6	6	1 (1)	16%
HPCI	3	3	0 (1)	0%
RCIC	1	1	0 (1)	0%
RWCU	5	5	0 (1)	0%
FW	8	8	5 (1)	62%
TOTALS:	60	60	12 (1)	20%

NOTE

(1) Per ASME Section XI IWB-2500-1 Table B-M-2 table note, three examinations are limited to one valve within each group of valves that are of the same constructional design and perform similar functions in the system. VT-3 inspections are performed on all Class 1 valves during disassembly for maintenance. Therefore, percentages are not applicable.

6.10. CATEGORY B-O

6.10.1. CATEGORY: B-O Pressure Retaining Welds In Control Rod Housings
ITEM NO: B14.10 (2) Reactor Vessel-Welds in CRD Housings

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)	Minimum Req'd (%)	Maximum Allowed (%)
RPV	185	8 (1)	0	0%	N/A	N/A
TOTALS	185	8 (1)	0	0%	N/A	N/A (3)

NOTE

(1) 10% of peripheral housings (Ref. Table IWB 2500-1, Category B-O).

(2) B14.10 is the only Item for this Category.

(3) Examinations evenly spaced during each period of the inspection interval.

6.11. CATEGORY C-A

6.11.1. CATEGORY: C-A Pressure Retaining Welds In Pressure Vessel
ITEM NO: C1.10 Shell Circumferential Welds

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RHR	1	1	0	0%
TOTALS:	1	1	0	0%

6.11.2. CATEGORY: C-A Pressure Retaining Welds In Pressure Vessel

ITEM NO: C1.20 Head Circumferential Welds

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RHR	1	1	0	0%
TOTALS:	1	1	0	0%

CATEGORY: C-A TOTALS

Item No.	Total Requiring Examination	Examined To Date	Minimum Req'd (%)	Maximum Allowed (%) (1)
C1.10	1	1 (100%)	0%	0%
C1.20	1	1 (100%)	0%	0%
	2	2 (100%)	N/A (1)	N/A (1)

NOTES

(1) Exams scheduled for the 1st and 3rd period.

6.12. CATEGORY C-B

6.12.1. CATEGORY: C-B Pressure Retaining Welds In Vessels
ITEM NO: C2.21 Nozzle-To-Shell (or Head) Weld

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RHR	4	2	0	0%
TOTALS:	4	2	0	0%

6.12.2. CATEGORY: C-B Pressure Retaining Nozzle Welds In Vessels
ITEM NO: C2.22 Nozzle Inside Radius Section

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
RHR	4	2	0	0%
TOTALS:	4	2	0	0%

CATEGORY: C-B TOTALS

Item No.	Total Requiring Examination	Examined To Date	Minimum Req'd (%)	Maximum Allowed (%) (1)
C2.21	2	0	N/A	N/A
C2.22	2	0	N/A	N/A
	4	0	N/A (1)	N/A (1)

NOTES

(1) Exams scheduled for the 1st and 3rd examination period.

6.13. CATEGORY C-C

6.13.1. CATEGORY: C-C Integral Attachments for Vessels, Piping, Pumps and Valves
ITEM NO: C3.10 Pressure Vessels

System	Total Comp. (1)	Total Requiring Examination (2)	Examined To Date	Examined To Date (%)
RHR	5	1	0	0%
TOTALS:	5	1	0	0%

NOTES

(1) Total component supports with integral attachments welds selected for examination per Code Case N-491-1

(2) Total examinations required for integral attachment welds per Code Case N-509.

6.13.2. CATEGORY: C-C Integral Attachments for Vessels, Piping, Pumps and Valves
ITEM NO: C3.20 Piping Integrally Welded Attachments

System	Total Comp. (1)	Total Requiring Examination (2)	Examined To Date	Examined To Date (%)
All Class 2 Systems	33	3	1	33%
TOTALS:	33	3	1	33%

NOTES

(1) Total component supports with integral attachment welds selected for examination per Code Case N-491-1

(2) Total examinations required for integral attachment welds per Code Case N-509.

CATEGORY: C-C TOTALS

Item No.	Total Comp. Requiring Exam	Examined To Date	Minimum Req'd (%)	Maximum Allowed (%)
C3.10	1	0%	N/A	N/A
C3.20	3	1	N/A	N/A
	1	25%	N/A	34%

6.14. CATEGORY C-F

6.14.1. CATEGORY: C-F-1 Socket Welds (1)

ITEM NO: N/A, NRC Augmented Commitment

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
SLC	0	16	16	12.5%
TOTALS:	0	16	2	12.5%

NOTES

(1) The Class 2 portion of the Standby Liquid Control System is <4" NPS and is exempt per ASME Section XI. Fermi committed to examine 16 of 131 system welds during each inspection interval.

6.14.2. CATEGORY: C-F-2 Pressure Retaining Welds in Carbon or Low Alloy Steel Piping

ITEM NO: C5.51 / 5.81 Piping Welds ≥ 3/8" in Normal Wall Thickness for Piping > NPS

System	Total Comp.	Total Requiring Examination	Examined To Date	Examined To Date (%)
MS	74	6	1	17%
CRD	34	3	0	0%
RHR	464	33	7	21%
CGC	113	9	3	33%
HPCI	154	12	1	8%
CS	196	15	3	10%
Containment Piping (1)	279	21	2	10%
TOTALS:	1314	99	17	17%

NOTES

(1) Containment piping includes augmented selections made in accordance with Relief Request RR-A26.

CATEGORY: C-F TOTALS

Item No.	Total Comp. (1)	Examined To Date	Minimum Req'd (%) (2)	Maximum Allowed (%) (2)
C-F-1 (C5.11 Augmented)	16	2 (12.5%)	N/A	N/A
C-F-2 (C5.51 & C5.81)	99	17 (17%)	N/A	N/A
TOTALS:	115	19 (17%)	N/A	34%

NOTES

(1) Includes Augmented Class 2 selections

(2) Exam percentage requirements are based on Category C-F totals, not item totals. Item percentages are supplied for information only.

6.15. CATEGORY F-A

6.15.1. CATEGORY: F-A Plate and Shell Type Supports

ITEM NO: F1.10-F1.40

Section XI Class	System No.	System ID	Total Requiring Examination	Examined To Date RF07	Examined To Date (%)
Class 1	B11	RPV	9	0	0%
	B21	Steam Supply	8	2	25%
	B31	Reactor Recirc	6	1	16%
	E11	RHR	3	0	0%
	E21	CS	3	0	0%
	E41	HPCI	1	0	0%
	E51	RCIC	1	1	100%
	G33	RWCU	4	1	25%
	N21	Feedwater	5	0	0%
		CLASS 1 TOTALS	40	5	12.5%
Class 2	B21	SRV	6	2	33%
	C11	CRD	4	1	25%
	E11	RHR	45	4	9%
	E21	CS	16	3	19%
	E41	HPCI	14	2	14%
	N30	MS	6	3	50%
	P11	Demin	1	1	100%
	T48	GCG	16	3	19%
		CLASS 2 TOTALS	108	20	18.5%
Class 3	E11	RHRSW	14	2	14%
	P44	EECW	35	5	14%
	P45	EESW	18	1	6%
	R30	DGSW	10	2	20%
		CLASS 3 TOTALS	77	10	13%

TOTAL ALL CATEGORIES:F-A, F1.10-F1.40

	Total Requiring Examination	Examined To Date	Examined To Date (%)	Minimum Req'd (%)	Maximum Allowed (%)
F-A Class 1	40	5	12.5%	N/A	N/A
F-A Class 2	108	20	18.5%	N/A	N/A
F-A Class 3	77	10	13%	N/A	N/A
				N/A	N/A
TOTALS:	225	35	15.5%	N/A	34%

SECTION 7

UPDATED PROGRAM TABLES

7. PROGRAM TABLES

7.1. Inservice Inspection Program (Plan) Tables (NDE)

The accompanying table lists the components or areas that are to be examined during the interval. Listed in an order following the items presented in the ASME Section XI, Subsections IWB, IWC, and IWD, the tables contain the following information:

Code Class: is the ASME class as defined in accordance with the **Code of Federal Regulations** (10CFR50.55a) Regulatory Guide 1.26, and NUREG 0800.

Interval: refers to the 120 month inspection interval as identified in Section 1.0 of this document.

Page/Rev.: indicates the consecutive and total page numbers for the NDE program. Rev. or Revision indicates the revision of the individual page or entire document.

Code Category: is the Examination Category as defined by ASME Section XI, Subarticles IWB-2500, IWC-2500 or IWD-2500.

Item Number: lists the Item No. as defined by ASME Section XI, Subarticles IWB-2500, IWC-2500, or IWD-2500. Note: all Item Numbers are addressed even though they may not be applicable to Fermi 2.

Description and Unique Identification: repeats the generic descriptions listed in tables IWB-2500-1, IWC-2500-1 or IWD-2500-1. The components to be examined are then listed by system and/or specific identification.

Exam Method-Exam Method Selected: identifies the code required method of examination i.e. Volumetric, Surface, or Visual. The specific examination selected is shown for the component i.e. UT, PT, MT, or VT (see list of abbreviations for expanded definitions).

Relief Request: if applicable, indicates the request for relief applicable in accordance with 10CFR50.55a (g) (5) (iii).

Augmented Exam Method: indicates the examination was required to meet a regulatory or licensing commitment and its outage code when completed or scheduled.

Sel. Basis: shows the abbreviation for the basis for selection of a component for examination.

Period: marks the 40 month period within the 120 month interval when the examination is scheduled. (3 periods per interval)

NOTE

A tentative schedule of specific examinations has been completed for the second 10 year interval. All exams are scheduled for inspection in accordance with the rules of ASME Section - XI, IWA, IWB, IWC, IWD and IWF, and as augmented by specific commitments (i.e., NUREG 03.13). Future revisions to this program (plan) shall be issued to reflect actual examinations to be performed during each refuel outage as well as all examinations completed during previous outages.

Remarks: is reserved for additional information to explain, amplify, or provide added details necessary to clarify the examination requirements.

7.1.1. Examination methods delineated in the following tables are intended to be representative of the ISI practice to be used or of preservice methods utilized. In either case, it should be recognized that either UT or RT is acceptable volumetric exams and either PT or MT is acceptable surface exams. Unique weld joint parameters may, of course, dictate more restrictive selection criteria; e.g., high background radiation will preclude RT, stainless materials will preclude MT, etc. It is intended that the process which selects exam methods for inspections under this plan treat UT and RT as interchangeable and PT and MT as interchangeable with consideration given to past practice in light of the reproducibility of results.

7.1.2. List of Abbreviations: The following abbreviations are used:

Plant Identification System (PIS) - Codes for Plant Systems

B21	- PIS Number for the Nuclear Boiler System
B31	- PIS Number for the Reactor Recirculation System
C11	- PIS Number for the Control Rod Drive System
C41	- PIS Number for the Standby Liquid Control System
E11	- PIS Number for the Residual Heat Removal System
E21	- PIS Number for the Core Spray System
E41	- PIS Number for the High Pressure Coolant Injection System
E51	- PIS Number for the Reactor Core Isolation Cooling System
G33	- PIS Number for the Reactor Water Cleanup System
G41	- PIS Number for the Fuel Pool Cooling System
N21	- PIS Number for the Feedwater System
N30	- PIS Number for the Main Steam System
T48	- PIS Number for the Combustible Gas Control System

Acronyms Used to Identify Plant Systems

CGC	- Combustible Gas Control
CRD	- Control Rod Drive
CS	- Core Spray
FPC	- Fuel Pool Cleanup
HPCI	- High Pressure Coolant Injection
RCIC	- Reactor Core Isolation Cooling
RHR	- Residual Heat Removal
RRC	- Reactor Recirculation
RWCU	- Reactor Water Cleanup
SDV	- Scram Discharge Volume
SLC	- Standby Liquid Control

Non-Destructive Examination Method Abbreviations

MT	- Magnetic Particle Examination
PT	- Liquid Penetrant Examination
UT	- Ultrasonic Examination
VT	- Visual Examination
VT-1	- Visual Examination per IWA-2211
VT-2	- Visual Examination per IWA-2212
VT-3	- Visual Examination per IWA-2213
UT Mech.	- UT Mechanized
UT Mech./Man.	- UT Mechanized or Manual

Weld Selection Basis Abbreviations

HCU	- High Cumulative Usage
HS	- High Stress
MS	- Moderate Stress
R	- Random
TE	- Terminal End
A	-Augmented
DM	-Dissimilar Metal Weld

Plant Components and Weld Terminology Abbreviations

CRDH	-Control Rod Drive Housing
EXPJT	- Pipe Expansion
FBC	- Field Weld
HX	- Heat Exchanger
HXS	- Heat Exchanger Shell
IBR	- Inner Bore Region (Nozzle)
IIH	- Incore Instrumentation Housing
LD	- Longitudinal Downstream (Seam Weld)
LU	- Longitudinal Upstream (Seam Weld)
PAD	- Integral Attachment Weld Directly onto the Pressure Boundary of the Pipe
PSFW	- Piping Support Field Weld
PS	- Primary Steam (Nuclear Steam Supply System)
RD	- Recirculation Discharge
RS	- Recirculation Suction
SDV	- Scram Discharge Volume
SW	- Shop Weld
TRUNION	- Hanger Support Welded Directly onto the Pressure Boundary of the Pipe
VBB	- Valve Body and Bonnet Housing

Generic Miscellaneous Abbreviations

BWR	- Boiling Water Reactor
DWG	- Drawing
EF2	- Enrico Fermi 2
in.	- Inches
N/A	- Not Applicable
NUREG	- Nuclear Regulatory Guide
PWR	- Pressurized Water Reactor
RR	- Relief Request
RPV	- Reactor Pressure Vessel

Component Support Abbreviations

A	- Anchor
C	- Constant Support
G	- Guide
R	- Rigid Support
SP	- Spring Hanger

Outage Codes

"XX" "Y"

Exam Status "Y" can equal the following codes:

C	= Completed
S	= Scheduled
CP	= Completed Partial
CPL	= Completed Partial Limited

Refuel Outage Sequential Number

Example:	07C	= Seventh Refueling Outage, Completed Exam
	08S	= Eighth Refueling Outage, Scheduled Exam
	08CP	= Eighth Refueling Outage, Completed Exam, Partial
	08CPL	= Eighth Refueling Outage, Completed Exam, Partial Limited

7.2. Inservice Inspection Program (Plan) Tables (Component Supports)

7.2.1. The accompanying tables list the component supports to be examined during the first inspection interval. The tables are divided into ISI Class - 1,2, and 3 and start with Class - 1. The tables contain the following information:

Code Class: is the ASME class as defined in accordance with the **Code of Federal Regulations** (10CFR50.55a) Regulatory Guide 1.26, and NUREG 0800.

Interval: refers to the 120 month inspection interval as identified in Section 1.0 of this document.

Page/Rev. indicates the consecutive and total page numbers for the NDE program. Rev. or Revision indicates the revision of the individual page or entire document.

Code Category: is the Examination Category as defined by ASME Section XI, Subarticle IWF.

Item Number: NOT USED - Because IWF category is the main selection determining factor for component supports, Item No. was not used to make hanger selections. The item Number depicts inspection points and therefore is more appropriately addressed in inspection procedures. The item Numbers for each category was used to identify the type of visual examination(s) each component support will receive and this information is provided in the tables.

PIS No./System: Identifies the Plant Identification System Number (PIS No.) and the System Title for each group of component supports to be examined.

Isometric/Multiple Loop: Identifies the specific isometric drawing applicable to a particular group of component supports and the Multiple Loop identification No. if applicable.

Unique Identification: Identifies the specific component support subject to examination.

Exam Method - Exam Method Selected: Identifies the code required method of examination (i.e. visual) and the specific examination selected for each component shown (i.e. VT-1, VT-3).

Type: Identifies the type of component support to be examined.

Relief Request: If applicable, indicates the request for relief applicable in accordance with 10CFR50.55a (g) (5) (iii).

Period: marks the 40 month period within the 120 month interval when the examination is scheduled. (3 periods per interval)

Remarks: is reserved for additional information to explain, amplify, or provide added details necessary to clarify the examination requirements.

7.2.2. **List of Abbreviations**: For definitions of abbreviations used in the following tables, refer to Paragraph 10.1.2 of this document.

7.3. Inservice Inspection Program (Plan) Tables (NDE)

- Table A – Class 1, 2, and 3 Welds and Components
- Table B - Supports
- Table C - Snubbers

7.4. NOTE 1

SECTION XI REQUIREMENTS: Examination Category B-F, Pressure Retaining Dissimilar Metal Welds, and Examination Category B-J, Pressure Retaining Welds in Piping.

The code does not define a transition point between the Reactor Pressure Vessel and piping components. Specifically, the code does not define whether a vessel nozzle to safe end weld is a piping weld or a reactor pressure vessel weld. In addition, the nozzle to safe end weld is considered a terminal end in accordance with Category B-J Footnote (1)(a).

To further complicate the situation, examination categories B-F and B-J contain duplicate examination requirements for dissimilar metal pressure retaining welds in piping.

DETROIT EDISON INTERPRETATIONS: Nozzle to safe end welds will be considered pressure retaining piping welds and subject to the examination requirements of Examination Category B-F (Item Nos. B5.10 and B5.20) and Category B-J (Item No. B9.11 and B9.21).

Dissimilar metal piping welds will be subject to the examination requirements of Examination Categories B-F (Item Nos. B5.130 and B5.140) and B-J (Item No.B9.11 or B9.21).

Since the examination requirements of Examination Categories B-F and B-J are identical for a given size and type of weld, the examinations performed will be used to satisfy the requirements of both Examination Categories.

7.5. NOTE 2

Reference Detroit Edison Documents NRC-88-0243, NRC-89-0297, and NRC-90-0103, in response to Generic Letter 88-01 and NUREG 0313 Rev. 2. Detroit Edison has committed to the inservice inspection requirements for austenitic stainless steel welds in accordance with the guidelines of Generic Letter 88-01. All applicable welds have been classified according to NUREG 0313 Rev. 2 requirements with the required percentages of welds being included in this program. The applicable category (GL-88-01) is identified in the remarks column. All welds identified as augmented selections will only be examined by volumetric techniques (i.e. ultrasonic). All inspections will be performed utilizing procedures and personnel qualified to current Utility PDI Guidelines. Sample expansion, if required, shall follow the NRC Staff recommendations provided in NUREG 0313 Rev 2 (Relief Request RR-A29). Methods and criteria for crack evaluation and repair shall be in conformance with IWB-3600 of Section XI of the 1989 Edition of ASME Boiler and Pressure Vessel Code. The previous requirement (now superseded) was an 80 month augmented inspection cycle per NUREG 0313 Rev. 1 with inspections being performed per IE Bulletin 83-02. Detroit Edison requested that Non-Safety Related, Category D welds be removed from GL-88-01 scope per NRC-92-090. The NRC response (TAC No. M84117, 12-18-1992) modified the inspection interval such that inspection of the subject piping welds on a sampling basis of at least 10 percent of the weld population be performed during each refueling outage.

7.6. NOTE 3

Per the EF-2 UFSAR Subsection 4.5.1.2.7, Detroit Edison had agreed to ultrasonically inspect the RPV Jet Pump Hold Down Beams at each Reactor Refueling Outage until sufficient experience was gained to change the frequency of inspection. If a cracked beam were detected, it would be replaced prior to return to power operation. Due to the failure of a jet pump hold down beam at another plant, SIL No. 330, Supplements 1 and 2, and RICSIL No. 065 were issued. As a result, during RF04 all jet pump hold down beams was replaced with beam assemblies that are less susceptible to IGSCC than the original assemblies. Subsequent UT and alternative inspections will be performed at future refueling outages based on industry experiences and the recommendations provided in IE Bulletin 80-07 and NUREG/CR-3052.

7.7. NOTE 4

ASME Section XI Category BE requires inspection of the external surfaces of 25% nozzles among each group of penetrations of comparable size and function. Fermi practice is to perform a VT-2 examination inside the RPV bioshield annulus and under vessel during the system leakage test each refueling outage. If leakage is identified, further investigation will be made to identify the exact location.

7.8. NOTE 5

Component supports and the associated integrally welded attachments are selected for examination in accordance with Code Cases N-491-1 (Alternative Requirements for Selection and Examination of Component Supports) and N-509 (Alternative Rules for the Selection and Examination of Integrally Welded Attachments).

7.9. NOTE 6

Visual examination of snubbers covers only the snubber unit, except for those snubber supports selected in accordance with Code Case N-491-1. The balance of the support (Integral and nonintegral attachments including lugs, bolting, pins, clamps, and support steel) will be visually examined in accordance with subsection IWF requirements.

7.10. NOTE 7

Per SIL 420 an inspection will be performed on the jet pump sensing lines and support brackets when convenient. This inspection will determine if the weld between the support brackets and the vertical run of the sensing line is intact. Additionally the inspection should concentrate on the jet pumps closest to the recirculation outlet nozzles.

7.11. NOTE 8

Per NRC Information Notice No. 90-30 all dissimilar metal welds containing Inconel 600 series base materials, Alloy 82 and 182 weld butter, and/or filler metal shall be examined following the guidelines of SIL 455, Revision 1, Supplement 1 (effective 6-90). It is essential and required that all examinations be performed by the use of 45° and 60° refracted longitudinal waves for crack detection and sizing in the Alloy 182 material and the low alloy material. All scanning of welds will be performed in both an axial and circumferential direction followed by a 45° shear wave if indications are identified using refracted longitudinal techniques. Examination of nozzle welds shall be extended into the area of Alloy 182 Weld Material Buttering. The purpose of this additional/supplemental examination is to assure that Alloy 182 Butter Cracking in the nozzle bore has not occurred and extended into the low alloy nozzle material.

7.12. NOTE 9

Per SIL 433, Supplement 1, an Ultrasonic (UT) inspection of the entire shroud head bolt length was performed on the 48 shroud head bolts for evidence of cracking during RF04. Based on industry experience additional inspections will be performed at subsequent refuel outages.

7.13. NOTE 10

During RF-06 the Reactor Recirculation Pumps were modified to the 4th generation design configuration. This configuration was designed to mitigate known causes to shaft and cover cracking and provides for ultrasonic inspection of the shaft without requiring complete pump disassembly and removal. This change out also included change out of the rotating element to a welded impeller and added rotating baffle. In addition, the hydrostatic bearing was modified to a non-welded design. The need to completely disassemble is reduced by modification to the 4th generation configuration. The following augmented inspections will be performed if the pump is disassembled. Per SIL 415, a supplemental liquid penetrant or volumetric inspection of the suction splitters will be performed if visual inspections identify cracking of the suction splitters or attachment welds. Per RICSIL 038 and NRC Information Notice 89-20 inspections will be performed on the hydrostatic bearing and baffle plate. Inspection of the heater/cooler assembly should be performed if the pump is disassembled. Disassembly of the pump for inspections will be evaluated prior to each refuel outage based upon industry experience and hours of operation

7.14. NOTE 11

Per SIL 474 a visual inspection will be performed on the steam dryer drain channel welds during refueling outages. The steam dryer assembly, dryer banks, and welds will be visually inspected each refueling outage.

7.15. NOTE 12

Per IE Bulletin 80-13, and SIL 289, Revision 1, Supplement 2, a visual inspection will be performed on the core spray internal piping each Refuel Outage. Inspection points will include those specifically identified in IE Bulletin 80-13 and SIL 289, Revision 1, Supplement 2. The inspection plan will follow the inspection recommendations provided in BWRVIP-18.

7.16. NOTE 13

Per SIL 462 inspection of the shroud support access hole cover was performed at the end of the first 10-year interval. Subsequent re-inspections will be based on industry experience.

7.17. NOTE 14

All Inservice Examinations of the Reactor Pressure Vessel Welds will be performed using both manual and mechanical examination techniques and will most likely be performed from the outside of the vessel. All examinations will be conducted in accordance with the requirements of Regulatory Guide 1.150, Revision 1, to the extent practical (Ref. NRC-87-0078).

Limitations encountered which affect the examination volume as prescribed by ASME Section XI will be documented in an examination report as required by Regulatory Guide 1.150, Revision 1, Appendix A. Regulatory Guide 1.150, Revision 1, Appendix A, recommends the use of the 2 percent notch which penetrates the internal (clad) surface of calibration blocks for detection of near surface flaws in that region. This is the calibration and examination method that shall be used.

Indications, regardless of amplitude, will be recorded on tape during the mechanized examination for analysis. Similarly, signal responses will be scrutinized during the manual examination process and indications will be recorded for further analysis and resolution.

7.18. NOTE 15

Visual inspections for leakage required by ASME Section XI Code Categories B-P, C-H, and D-B is performed using site procedures. Test Packages for all tests performed are developed utilizing the Inservice Inspection Classification Boundary Drawings listed on Table A-5-5.1 as the basis.

All components on the following systems are included in the Class 1 inspections: B21, B31, C41, E11, E21, E41, E51, G33, N21, and P34.

All components on the following systems are included in the Class 2 inspections: C11, C41, E11, E21, E41, G41, G51, N11, N30, P34, T4804, and T50.

All components on the following systems are included in the Class 3 inspections: E11, P42, P44, P45, and R30.

7.19. NOTE 16

Per RICSIL No. 059 and SIL No. 554 inspection of the top guide beams should be performed at grid locations where fuel and blade guides have been removed for other reasons. Inspection of selected grid locations will be performed during refueling outages. Additionally, ultrasonic inspection should be considered if cracking is found or as recommended by SIL No. 554.

7.20. NOTE 17

Per SIL No. 551, inspection should be performed of at least 50% of the Jet Pump Riser Brace welds at each Refueling Outage. Per SIL No. 574 a visual inspection of the jet pump adjusting screw tack welds should be performed during each refueling outage. Based upon acceptable inspection results, future inspections of at least 50% of the tack welds each outage is sufficient. Repairs if required will be performed in accordance with the recommendations of SIL No. 574 as appropriate. In addition, verification of contact will be performed on the restrainer screws and wedge assembly to the inlet mixer per the recommendations of RICSIL-078. These inspections will be performed in conjunction with the inspection of those jet pump assemblies selected for examination. The extent of inspection frequency will follow the recommendation provided in BWRVIP-41.

7.21. NOTE 18

Per recommendation of SIL No. 571 augmented inspection of this stainless steel nozzles should be performed after 15 years of operation. The inspection boundary for this weld shall be extended to include all stainless steel material accessible for ultrasonic examination. If linear surface indications are found, ultrasonic examination should be used to determine crack depth.

7.22. NOTE 19

Visual inspection of the core shroud and shroud welds will be performed in accordance with the recommendations contained in BWRVIP "BWR Core Shroud Inspection and Flaw Evaluation Guideline" (BWRVIP-01) utilizing techniques detailed in BWRVIP "Reactor Pressure Vessel and Internals Examination Guidelines"(BWRVIP-03). SIL No. 572, Rev 1 inspection recommendations have been superceded. Fermi 2 has committed to perform future inspections per the guidance of the BWRVIP. Visual inspections will be performed as an enhanced EVT-1 inspection with the capability to resolve a 1/2-mil wire on the inspection surface. The BWRVIP has imposed additional guidelines for inspection based on years of operation, materials, and conductivity. Based on the above, during RF-06 a baseline inspection of the shroud welds (H-3, H-4, H-5, and H-7) was completed (approximately 90% volumetric coverage) utilizing an augmented ultrasonic phased array technique with no indication of service induced flaws. Future Core Shroud inspections will be performed in accordance with the BWRVIP "Guidelines for Reinspection of BWR Core Shrouds (BWRVIP - 07). Evaluation of anomalies shall be per the BWR Core Shroud Evaluation Reports (BWRVIP-01 and GENE-523-A53-0494). Additional references include SIL 572, Rev 1, RICSIL 054, Rev 1, RICSIL 068, RICSIL 077, Information Notices 93-079 and 94-042 and Generic Letter GL 94-03. GL 94-03 required advanced notification to the NRC of the proposed plan for Core Shroud inspection, evaluation and/or repair.

7.23. NOTE 20

Additional augmented examinations were performed during RF04 and changes were made to inspection schedule for selected nozzle welds following Turbine Generator Event and subsequent RPV chemistry transient for detection of IGSCC initiation.

7.24. NOTE 21

The new containment inspection requirements of ASME Section XI 1992 Edition, 1992 Addenda in effect for the Second Ten-year inspection interval changed the way containment system piping (between the isolation valves) are classified for ISI. IWE-1220(d) specifies that containment system piping is exempt from IWE requirements but shall be examined in accordance with the appropriate classification specified in the construction Design Specifications. This varies from the assumptions made during the first interval, when no IWE requirements were imposed. Relief Request RR-A26 documents Detroit Edison's proposed alternative examination requirements.

INSERVICE INSPECTION NDE PROGRAM

TABLE A

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification		Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-A									
B1.11	**Circumferrential Shell Weld**								
4-308A		UT	All B-A Welds	5360-5	RR-A25	N/A	N/A		
4-308B		UT	All B-A Welds	5360-5	RR-A25	N/A	N/A		
1-313		UT	All B-A Welds	5360-5	RR-A25	N/A	N/A		
9-307		UT	All B-A Welds	5360-5	RR-A25	N/A	N/A		
B-A									
B1.12	**Longitudinal Shell Weld**								
1-308A		UT	All B-A Welds	5360-5		08S			Note 14 Applies to all Category B-A Welds
1-308B		UT	All B-A Welds	5360-5		08S			
1-308C		UT	All B-A Welds	5360-5				12S	
1-308D		UT	All B-A Welds	5360-5				12S	
2-308A		UT	All B-A Welds	5360-5		08S			
2-308B		UT	All B-A Welds	5360-5				12S	
2-308C		UT	All B-A Welds	5360-5				12S	
15-308A		UT	All B-A Welds	5360-5				12S	
15-308B		UT	All B-A Welds	5360-5				12S	
15-308C		UT	All B-A Welds	5360-5		08S			
15-308D		UT	All B-A Welds	5360-5				12S	
2-307A		UT	All B-A Welds	5360-5		08S			
2-307B		UT	All B-A Welds	5360-5				12S	
2-307C		UT	All B-A Welds	5360-5				12S	
B-A									
B1.21	**Circumferrential Head Weld**								
5-319		UT	All B-A Welds	5360-5				11S	
4-319		UT	All B-A Welds	5360-5		08S	10S		08 - 2-319C to 2-319E 40% 10 - 2-319E to 2-319C 60%
6-306		UT	All B-A Welds	5360-5		08S	10S		One sided exam 180-360 Deg, RF08, 0-180 Deg, RF10
5-306		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
B-A									

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification		Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-A									
B1.22	**Meridional Head Weld**								
2-319A		UT	All B-A Welds	5360-5		08S			
2-319B		UT	All B-A Welds	5360-5		08S			
2-319C		UT	All B-A Welds	5360-5		08S			
2-319D		UT	All B-A Welds	5360-5				12S	
2-319E		UT	All B-A Welds	5360-5				12S	
1-319A		UT	All B-A Welds	5360-5	RR-A1			12S	
1-319B		UT	All B-A Welds	5360-5		08S			
1-319C		UT	All B-A Welds	5360-5	RR-A1			12S	
1-319D		UT	All B-A Welds	5360-5			10S		
1-319E		UT	All B-A Welds	5360-5	RR-A1		10S		
1-319F		UT	All B-A Welds	5360-5			10S		
1-319G		UT	All B-A Welds	5360-5	RR-A1			12S	
1-319H		UT	All B-A Welds	5360-5		08S			
1-306A		UT	All B-A Welds	5360-5		08S			
1-306B		UT	All B-A Welds	5360-5			10S		
1-306C		UT	All B-A Welds	5360-5			10S		
1-306D		UT	All B-A Welds	5360-5		08S			
1-306E		UT	All B-A Welds	5360-5		08S			
1-306F		UT	All B-A Welds	5360-5				12S	
1-306G		UT	All B-A Welds	5360-5		08S			
1-306H		UT	All B-A Welds	5360-5				12S	
1-306J		UT	All B-A Welds	5360-5			10S		
1-306K		UT	All B-A Welds	5360-5		08S			
2-306A		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
2-306B		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
2-306C		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
2-306D		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
2-306E		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification		Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-A									
B1.22	**Meridional Head Weld**								
2-306F		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
2-306G		UT	All B-A Welds	5360-5	RR-A1				Inaccessible Weld
B-A									
B1.30	**Shell to Flange Weld**								
13-308		UT	All B-A Welds	5360-5	RR-A1	08SP		12SP	0-180 Deg, RF-08, 180- 0 Deg, RF-12
B-A									
B1.40	**Head to Flange Weld**								
3-319		UT/MT	All B-A Welds	5360-5		08SP	10SP	12SP	1/3 of weld each scheduled Inspection Period
B-D									
B3.90	**RPV Nozzle to Vessel Weld**								
8-316A		UT	All B-D Nozzles	5361-5	RR-A6	08S			Note 14 Applies to all Category B-D Welds
8-316B		UT	All B-D Nozzles	5361-5	RR-A6	08S			
8-316C		UT	All B-D Nozzles	5361-5	RR-A6			12S	
8-316D		UT	All B-D Nozzles	5361-5	RR-A6			12S	
4-316A		UT	All B-D Nozzles	5361-5	RR-A6	08S			
4-316B		UT	All B-D Nozzles	5361-5	RR-A6	08S			
4-316C		UT	All B-D Nozzles	5361-5	RR-A6			11S	
4-316D		UT	All B-D Nozzles	5361-5	RR-A6	08S			
4-316E		UT	All B-D Nozzles	5361-5	RR-A6			11S	
4-316F		UT	All B-D Nozzles	5361-5	RR-A6			11S	
14-316A		UT	All B-D Nozzles	5361-5	RR-A6			12S	
14-316B		UT	All B-D Nozzles	5361-5	RR-A6	08S			
15-315		UT	All B-D Nozzles	5361-5	RR-A6	08S			
13-314A		UT	All B-D Nozzles	5361-5	RR-A6	08S			
13-314B		UT	All B-D Nozzles	5361-5	RR-A6	08S			
13-314C		UT	All B-D Nozzles	5361-5	RR-A6			12S	
13-314D		UT	All B-D Nozzles	5361-5	RR-A6	08S			
13-314E		UT	All B-D Nozzles	5361-5	RR-A6			12S	

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification		Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-D									
B3.90	**RPV Nozzle to Vessel Weld**								
13-314F		UT	All B-D Nozzles	5361-5	RR-A6			12S	
13-314G		UT	All B-D Nozzles	5361-5	RR-A6	08S			
13-314H		UT	All B-D Nozzles	5361-5	RR-A6			12S	
13-314J		UT	All B-D Nozzles	5361-5	RR-A6			12S	
13-314K		UT	All B-D Nozzles	5361-5	RR-A6	08S			
5-314A		UT	All B-D Nozzles	5361-5	RR-A6	08S			
5-314B		UT	All B-D Nozzles	5361-5	RR-A6			12S	
19-314A		UT	All B-D Nozzles	5361-5	RR-A6			12S	
19-314B		UT	All B-D Nozzles	5361-5	RR-A6	08S			
2-318		UT	All B-D Nozzles	5361-5	RR-A6			12S	
4-318A		UT	All B-D Nozzles	5361-5	RR-A6		09S		
4-318B		UT	All B-D Nozzles	5361-5	RR-A6		09S		
B-D									
B3.100	**RPV Nozzle Inside Radius Section**								
8-316A IRS		UT	All BD-IRS	5361-5			08S		
8-316B IRS		UT	All BD-IRS	5361-5			08S		
8-316C IRS		UT	All BD-IRS	5361-5			12S		
8-316D IRS		UT	All BD-IRS	5361-5			12S		
4-316A IRS		UT	All BD-IRS	5361-5		08S			NUREG-0619/GE-NE-523-A71-594
4-316B IRS		UT	All BD-IRS	5361-5		08SA			NUREG-0619/GE-NE-523-A71-594
4-316C IRS		UT	All BD-IRS	5361-5		07CA	09SA	11S	NUREG-0619/GE-NE-523-A71-594
4-316D IRS		UT	All BD-IRS	5361-5		08SA			NUREG-0619/GE-NE-523-A71-594
4-316E IRS		UT	All BD-IRS	5361-5		07CA	09SA	11S	NUREG-0619/GE-NE-523-A71-594
4-316F IRS		UT	All BD-IRS	5361-5		07CA	09SA	11S	NUREG-0619/GE-NE-523-A71-594
14-316A IRS		UT	All BD-IRS	5361-5				12S	
14-316B IRS		UT	All BD-IRS	5361-5		08S			
15-315 IRS		UT	All BD-IRS	5361-5		08S			
13-314A IRS		UT	All BD-IRS	5361-5		08S			

Category / Item Identification		Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-D									
B3.100	**RPV Nozzle Inside Radius Section**								
13-314B IRS		UT	All BD-IRS	5361-5		08S			
13-314C IRS		UT	All BD-IRS	5361-5				12S	
13-314D IRS		UT	All BD-IRS	5361-5		08S			
13-314E IRS		UT	All BD-IRS	5361-5				12S	
13-314F IRS		UT	All BD-IRS	5361-5				12S	
13-314G IRS		UT	All BD-IRS	5361-5		08S			
13-314H IRS		UT	All BD-IRS	5361-5				12S	
13-314J IRS		UT	All BD-IRS	5361-5				12S	
13-314K IRS		UT	All BD-IRS	5361-5		08S			
5-314A IRS		UT	All BD-IRS	5361-5		08S			
5-314B IRS		UT	All BD-IRS	5361-5				12S	
19-314A IRS		UT	All BD Nozzles	5361-5	RR-A6			12S	
19-314B IRS		UT	All BD Nozzles	5361-5	RR-A6	08S			
2-318 IRS		UT	All BD Nozzles	5361-5				12S	
4-318A IRS		UT	All BD Nozzles	5361-5			09S		
4-318B IRS		UT	All BD Nozzles	5361-5			09S		
4-316A IBR		UT	A	5361-5		08SA			NUREG-0619
4-316B IBR		UT	A	5361-5		08SA			NUREG-0619
4-316C IBR		UT	A	5361-5		07CA	09SA	11SA	NUREG-0619
4-316D IBR		UT	A	5361-5		08SA			NUREG-0619
4-316E IBR		UT	A	5361-5		07CA	09SA	11SA	NUREG-0619
4-316F IBR		UT	A	5361-5		07CA	09SA	11SA	NUREG-0619
B-E									
B4.11	**Partial Penetration Vessel Nozzle**								
7-315		VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	Each Refuel Outage - Note 4 applies to all B-E Items
17-315		VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
B-E									

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-E								
B4.12	**Partial Penetration CRD Nozzle**							
	VT-2		5363-5		07C, 08S	09S, 10S	11S, 12S	25% Nozzles External Surfaces - Note 4
	VT-2		5363-5		07C, 08S	09S, 10S	11S, 12S	
B-E								
B4.13	**Partial Penetration Instrumentation Nozzle**							
2-315A	VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
2-315B	VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
2-315C	VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
2-315D	VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
2-315F	VT-2		5361-5		07C, 08S	09S, 10S	11S, 12S	
IIH-X__-Y__ (55)	VT-2		5363-5		07C			
B-F								
B5.10	**Dissimilar Metal RPV Nozzle to Safe End Weld 4" NPS and Larger**							
N5-A	UT	TE, DM, MS, A	3053-5			10SA		Notes 2 & 8 Cat. B
N5-A	PT	TE, DM, MS, A	3053-5			10SA		Notes 2 & 8 Cat. B
N5-B	UT	TE, DM, MS, A	3052-5		07C			Notes 2 & 8 Cat. B
N5-B	PT	TE, DM, MS, A	3052-5		07C			Notes 2 & 8 Cat. B
N-9	UT	TE, DM, A	5361-5			09S		Notes 2 & 8 Cat. B
N-9	PT	TE, DM, A	5361-5			09S		Notes 2 & 8 Cat. B
2-303A	UT	TE, DM, A	5358-5		08S			Notes 2 & 8 Cat. B
2-303A	PT	TE, DM, A	5358-5		08S			Notes 2 & 8 Cat. B
2-303B	UT	TE, DM, A	5358-5			09S		Notes 2 & 8 Cat. B
2-303B	PT	TE, DM, A	5358-5			09S		Notes 2 & 8 Cat. B
2-303C	UT	TE, DM, A	5358-5				12S	Notes 2 & 8 Cat. B

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-F								
B5.10	**Dissimilar Metal RPV Nozzle to Safe End Weld 4" NPS and Larger**							
2-303C	PT	TE, DM, A	5358-5				12S	Notes 2 & 8 Cat. B
2-303D	UT	TE, DM, A	5358-5			09S		Notes 2 & 8 Cat. B
2-303D	PT	TE, DM, A	5358-5			09S		Notes 2 & 8 Cat. B
101-304E	UT	TE, DM, A	5358-5				12S	Notes 2 & 8 Cat. B
101-304E	PT	TE, DM, A	5358-5				12S	Notes 2 & 8 Cat. B
2-303F	UT	TE, DM, A	5356-5				12S	Notes 2 & 8 Cat. B
2-303F	PT	TE, DM, A	5356-5				12S	Notes 2 & 8 Cat. B
2-303G	UT	TE, DM, A	5356-5			09S		Notes 2 & 8 Cat. B
2-303G	PT	TE, DM, A	5356-5			09S		Notes 2 & 8 Cat. B
2-303H	UT	TE, DM, A	5356-5		07C			Notes 2 & 8 Cat. B
2-303H	PT	TE, DM, A	5356-5		07C			Notes 2 & 8 Cat. B
2-303J	UT	TE, DM, A	5356-5				11S	Notes 2 & 8 Cat. B
2-303J	PT	TE, DM, A	5356-5				11S	Notes 2 & 8 Cat. B
2-303K	UT	TE, DM, A	5356-5				12S	Notes 2 & 8 Cat. B
2-303K	PT	TE, DM, A	5356-5				12S	Notes 2 & 8 Cat. B
4-303A	UT	TE, DM, A	5357-5		07C			
4-303A	PT	TE, DM, A	5357-5		07C			
4-303B	UT	TE, DM, A	5359-5				11S	
4-303B	PT	TE, DM, A	5359-5				11S	
102-304A	UT	TE, DM, A	5361-5		07C			
102-304A	PT	TE, DM, A	5361-5		07C			
102-304B	UT	TE, DM, A	5361-5			10S		
102-304B	PT	TE, DM, A	5361-5			10S		
B-F								
B5.20	**Dissimilar Metal RPV Nozzle to Safe End Weld Less Than 4" NPS**							
5-315	PT	A			07C			Note 18
5-315	UT	A		R1-91	07C			Note 18
B-F								

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-F								
B5.130 Dissimilar Metal Piping Butt Weld 4" NPS and Larger								
SW-E11-2298-6WC	PT	DM, A	2298-5		08S			Notes 1 & 2, Category B
SW-E11-2298-6WC	UT	DM, A	2298-5		08S			Notes 1 & 2, Category B
SW-E11-2299-1WB	PT	DM, A	2299-5			09S		Notes 1 & 2, Category B
SW-E11-2299-1WB	UT	DM, A	2299-5			09S		Notes 1 & 2, Category B
SW-E11-2327-6WC	PT	DM, A	2327-5			11S		Notes 1 & 2, Category B
SW-E11-2327-6WC	UT	DM, A	2327-5			11S		Notes 1 & 2, Category B
SW-E21-3052-4WOX	PT	DM, A	3052-5		08S			Notes 1 , 2 & 8 Category B
SW-E21-3052-4WOX	UT	DM, A	3052-5		08S			Notes 1 , 2 & 8 Category B
SW-E21-3053-4WOX	PT	DM, A	3053-5			10S		Notes 1 , 2 & 8 Category B
SW-E21-3053-4WOX	UT	DM, A	3053-5			10S		Notes 1 , 2 & 3 Category B
SW-G33-3096-10WD	PT	DM, A	3096-5				12S	Notes 1 & 2, Category B
SW-G33-3096-10WD	UT	DM, A	3096-5				12S	Notes 1 & 2, Category B
SW-G33-3096-12WD	PT	DM, A	3096-5			09S		Notes 1 & 2, Category B
SW-G33-3096-12WD	UT	DM, A	3096-5			09S		Notes 1 & 2, Category B
B-G-1								
B6.10 RPV Closure Head Nuts Greater Than 2"								
326-02, 1 through 68	MT	>2 dia."	5362-5		08S	09S	11S	1/3 Each Period
B-G-1								
B6.20 RPV Closure Studs Greater Than 2", In-place								
326-01, 1 through 68	UT	>2 dia."	5362-5		08S	10S	11S	1/3 Each Period
B-G-1								
B6.30 RPV Closure Studs Greater Than 2", When Removed								
326-01, 1 through 68	MT	>2 dia."	5362-5			08S		48-51 Removed w/refueling chute
B-G-1								
B6.40 RPV, Threads in Flange								
1 through 68	UT	>2 dia."	5362-5		08S	09S	11S	1/3 Each Period
B-G-1								
B6.50 RPV Closure Washers and Bushings								

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-G-1								
B6.50 RPV Closure Washers and Bushings								
326-03, 1 through 68	VT-1	>2 dia."	5362-5		08S	09S	11S	1/3 Each Period
B-G-1								
B6.180 Pump Studs Greater Than 2"								
RRC Pump A, Studs 1 through 16	UT	>2 dia."	5365-5		08S			
RRC Pump B, Studs 1 through 16	UT	>2 dia."	5365-5				11S	
B-G-1								
B6.190 Pump Flange Surface, When Disassembled								
RRC Pump A, Flange	VT-1	>2 dia."	5365-5					Perform if disassembled
RRC Pump B, Flange	VT-1	>2 dia."	5365-5					Perform if disassembled
B-G-1								
B6.200 Pump Nuts, Bushings, and Washers								
RRC Pump A Nuts, Bushings & Washers Set 1 - 16	VT-1	>2 dia."	5365-5		08S			
RRC Pump B Nuts, Bushings & Washers Set 1 - 16	VT-1	>2 dia."	5365-5				11S	
B-G-2								
B7.10 RPV Bolts, Studs, and Nuts 2" and Less								
Spare Flange (0Deg)	VT-1	< 2 dia."	5361-5		08S			
Spare Flange (180Deg)	VT-1	< 2 dia."	5361-5		08S			
Instrumentation Nozzle	VT-1	< 2 dia."	5361-5				11S	
B-G-2								
B7.50 Piping Bolts, Studs, and Nuts 2" and Less								
FBC-E41-2297-01	VT-1	< 2 dia."	2297-5			09S		
FBC-E51-2192-01	VT-1	< 2 dia."	2192-5		08S			
B-G-2								
B7.60 Pump Bolts, Studs, and Nuts 2" and Less								
	VT-1	< 2 dia."	5365-5			10S		
	VT-1	< 2 dia."	5365-5				12S	
B-G-2								

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-G-2								
B7.70 Valve Bolts, Studs, and Nuts 2" and Less								
FBC-B21-5352-01M	VT-1	< 2 dia."	5352-5		07C			
B21-F013M-VBB	VT-1	< 2 dia."	5352-5		07C			
FBC-B21-5352-01N	VT-1	< 2 dia."	5352-5				11S	
B21-F013N-VBB	VT-1	< 2 dia."	5352-5				11S	
FBC-B21-5352-01L	VT-1	< 2 dia."	5352-5		08S			
B21-F013L-VBB	VT-1	< 2 dia."	5352-5		08S			
B21-F022A-VBB	VT-1	< 2 dia."	5352-5				11S	
B21-F028A-VBB	VT-1	< 2 dia."	5352-5			10S		
FBC-B21-5353-01F	VT-1	< 2 dia."	5353-5			10S		
B21-F013F-VBB	VT-1	< 2 dia."	5353-5			10S		
FBC-B21-5353-01K	VT-1	< 2 dia."	5353-5		08S			
B21-F013K-VBB	VT-1	< 2 dia."	5353-5		08S			
FBC-B21-5353-01D	VT-1	< 2 dia."	5353-5		07C			
B21-F013D-VBB	VT-1	< 2 dia."	5353-5		07C			
FBC-B21-5353-01C	VT-1	< 2 dia."	5353-5			10S		
B21-F013C-VBB	VT-1	< 2 dia."	5353-5			10S		
FBC-B21-5353-01G	VT-1	< 2 dia."	5353-5		08S			
B21-F013G-VBB	VT-1	< 2 dia."	5353-5		08S			
B21-F022B-VBB	VT-1	< 2 dia."	5353-5				12S	
B21-F028B-VBB	VT-1	< 2 dia."	5353-5		08S			
FBC-B21-5354-01R	VT-1	< 2 dia."	5354-5				12S	
B21-F013R-VBB	VT-1	< 2 dia."	5354-5				12S	
FBC-B21-5354-01E	VT-1	< 2 dia."	5354-5			10S		
B21-F013E-VBB	VT-1	< 2 dia."	5354-5			10S		
FBC-B21-5354-01B	VT-1	< 2 dia."	5354-5		08S			
B21-F013B-VBB	VT-1	< 2 dia."	5354-5		08S			
FBC-B21-5354-01J	VT-1	< 2 dia."	5354-5		07C			
B21-F013J-VBB	VT-1	< 2 dia."	5354-5		07C			

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-G-2								
B7.70 Valve Bolts, Studs, and Nuts 2" and Less								
FBC-B21-5354-01H	VT-1	< 2 dia."	5354-5				12S	
B21-F013H-VBB	VT-1	< 2 dia."	5354-5				12S	
B21-F022C-VBB	VT-1	< 2 dia."	5354-5			10S		
B21-F028C-VBB	VT-1	< 2 dia."	5354-5				11S	
FBC-B21-5355-01P	VT-1	< 2 dia."	5355-5				12S	
B21-F013P-VBB	VT-1	< 2 dia."	5355-5				12S	
FBC-B21-5355-01A	VT-1	< 2 dia."	5355-5		07C			
B21-F013A-VBB	VT-1	< 2 dia."	5355-5		07C			
B21-F022D-VBB	VT-1	< 2 dia."	5355-5				12S	
B21-F028D-VBB	VT-1	< 2 dia."	5355-5		08S			
B31-F023A-VBB	VT-1	< 2 dia."	5357-5			09S		
B31-F031A-VBB	VT-1	< 2 dia."	5357-5			09S		
B31-F023B-VBB	VT-1	< 2 dia."	5359-5				11S	
B31-F031B-VBB	VT-1	< 2 dia."	5359-5				11S	
E11-F015A-VBB	VT-1	< 2 dia."	2298-5		07C			
E11-F050A-VBB	VT-1	< 2 dia."	2298-5		07C			
E11-F060A-VBB	VT-1	< 2 dia."	2298-5				12S	
E11-F067-VBB	VT-1	< 2 dia."	2299-5			09S		
E11-F009-VBB	VT-1	< 2 dia."	2299-5			09S		
E11-F608-VBB	VT-1	< 2 dia."	2299-5				11S	
E11-F008-VBB	VT-1	< 2 dia."	2299-5				12S	
E11-F015B-VBB	VT-1	< 2 dia."	2327-5				11S	
E11-F050B-VBB	VT-1	< 2 dia."	2327-5		07C			
E11-F060B-VBB	VT-1	< 2 dia."	2327-5			10S		
E21-F005A-VBB	VT-1	< 2 dia."	3052-5			09S		
E21-F006A-VBB	VT-1	< 2 dia."	3052-5		08S			
E21-F007A-VBB	VT-1	< 2 dia."	3052-5				12S	
E21-F005B-VBB	VT-1	< 2 dia."	3053-5			09S		

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-G-2								
B7.70 Valve Bolts, Studs, and Nuts 2" and Less								
E21-F006B-VBB	VT-1	< 2 dia."	3053-5		07C			
E21-F007B-VBB	VT-1	< 2 dia."	3053-5				12S	
E41-F002-VBB	VT-1	< 2 dia."	2297-5				11S	
E41-F003-VBB	VT-1	< 2 dia."	2297-5		08S			
E41-F006-VBB	VT-1	< 2 dia."	3537-5			10S		
E51-F007-VBB	VT-1	< 2 dia."	2192-5			09S		
E51-F013-VBB	VT-1	< 2 dia."	3536-5				11S	
E51-F008-VBB	VT-1	< 2 dia."	2192-5		07C			
G33-F004-VBB	VT-1	< 2 dia."	3096-5			09S		
G33-F001-VBB	VT-1	< 2 dia."	3096-5		08S			
G33-F101-VBB	VT-1	< 2 dia."	3096-5				12S	
G33-F102-VBB	VT-1	< 2 dia."	5351-5				12S	
G33-F100-VBB	VT-1	< 2 dia."	5351-5			10S		
G33-F106-VBB	VT-1	< 2 dia."	5351-5				11S	
G33-F120-VBB	VT-1	< 2 dia."	3536-5		08S			
G33-F121-VBB	VT-1	< 2 dia."	3536-5		07C			
G33-F220-VBB	VT-1	< 2 dia."	3536-5			10S		
B21-F076A-VBB	VT-1	< 2 dia."	3537-5				11S	
B21-F032A-VBB	VT-1	< 2 dia."	3537-5			09S		
B21-F010A-VBB	VT-1	< 2 dia."	3537-5				12S	
B21-F011A-VBB	VT-1	< 2 dia."	3537-5		08S			
B21-F076B-VBB	VT-1	< 2 dia."	3536-5				11S	
B21-F032B-VBB	VT-1	< 2 dia."	3536-5				11S	
B21-F010B-VBB	VT-1	< 2 dia."	3536-5			09S		
B21-F011B-VBB	VT-1	< 2 dia."	3536-5		08S			
B-G-2								
B7.80 CRD Bolts, Studs, and Nuts 2" and Less								

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-G-2								
B7.80 CRD Bolts, Studs, and Nuts 2" and Less								
185 sets of Bolts, Studs and Nuts	Visual VT-1	< 2 dia."						When Disassembled
B-H								
B8.10 RPV Integral Attachment Weld								
3-306/4-309	MT	B-H Weld	5360-5		08S			10% of Weld length
3-306/4-309	UT	B-H Weld	5360-5		08SP			10% of Weld length
10-324B	MT	B-H Weld	5360-5		08S			Code Case N-509
8-319A	MT	B-H Weld	5360-5				12S	Supplemental exam for weld 1-391A, RR-A1
8-319B	MT	B-H Weld	5360-5				12S	Supplemental exam for weld 1-391C, RR-A1
8-319C	MT	B-H Weld	5360-5			10S		Supplemental exam for weld 1-391E, RR-A1
8-319D	MT	B-H Weld	5360-5				12S	Supplemental exam for weld 1-391G, RR-A1
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
7-316A	MT	TE	5352-5		08S			
7-316A	UT	TE	5352-5		08S			
SW-PS-2-A1-A	MT	HS	5352-5		08S			
SW-PS-2-A1-A	UT	HS	5352-5		08S			
SW-PS-2-A1-B	MT	HS	5352-5		08S			
SW-PS-2-A1-B	UT	HS	5352-5		08S			
FW-PS-2-A3	MT	HS	5352-5			09S		
FW-PS-2-A3	UT	HS	5352-5			09S		
SW-PS-2-A3-A	MT	HS	5352-5			09S		
SW-PS-2-A3-A	UT	HS	5352-5			09S		
SW-PS-2-A3-C	MT	HS	5352-5			10S		
SW-PS-2-A3-C	UT	HS	5352-5			10S		
SW-PS-2-A3-D	MT	HS	5352-5			10S		
SW-PS-2-A3-D	UT	HS	5352-5			10S		
SW-PS-2-A3-F	MT	HS	5352-5			09S		

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-PS-2-A3-F	UT	HS	5352-5			09S		
SW-PS-2-A3-J	MT	HS	5352-5				11S	
SW-PS-2-A3-J	UT	HS	5352-5				11S	
FW-PS-2-A4	MT	MS	5352-5				11S	
FW-PS-2-A4	UT	MS	5352-5				11S	
SW-PS-2-A4-B	MT	MS	5352-5				12S	
SW-PS-2-A4-B	UT	MS	5352-5				12S	
FW-PS-2-A6	MT	MS	5352-5				11S	
FW-PS-2-A6	UT	MS	5352-5				11S	
7-316B	MT	TE	5353-5			09S		
7-316B	UT	TE	5353-5			09S		
SW-PS-2-B1-A	MT	MS	5353-5			09S		
SW-PS-2-B1-A	UT	MS	5353-5			09S		
SW-PS-2-B1-B	MT	MS	5353-5			09S		
SW-PS-2-B1-B	UT	MS	5353-5			09S		
FW-PS-2-B3	MT	MS	5353-5		08S			
FW-PS-2-B3	UT	MS	5353-5		08S			
SW-PS-2-B3-A	MT	MS	5353-5		08S			
SW-PS-2-B3-A	UT	MS	5353-5		08S			
SW-PS-2-B3-C	MT	HS, HCU	5353-5			10S		
SW-PS-2-B3-C	UT	HS, HCU	5353-5			10S		
SW-PS-2-B3-D	MT	HCU	5353-5				12S	
SW-PS-2-B3-D	UT	HCU	5353-5				12S	
SW-PS-2-B3-F	MT	HS, HCU	5353-5				11S	
SW-PS-2-B3-F	UT	HS, HCU	5353-5				11S	
SW-PS-2-B3-G	MT	HCU	5353-5				11S	
SW-PS-2-B3-G	UT	HCU	5353-5				11S	
SW-PS-2-B3-J	MT	HS	5353-5		08S			

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-PS-2-B3-J	UT	HS	5353-5		08S			
SW-PS-2-B3-M	MT	HS	5353-5				12S	
SW-PS-2-B3-M	UT	HS	5353-5				12S	
SW-PS-2-B3-R	MT	HS	5353-5		08S			
SW-PS-2-B3-R	UT	HS	5353-5		08S			
SW-PS-2-B3-T	MT	MS	5353-5				11S	
SW-PS-2-B3-T	UT	MS	5353-5				11S	
FW-PS-2-B4	MT	MS	5353-5				11S	
FW-PS-2-B4	UT	MS	5353-5				11S	
7-316C	MT	TE	5354-5			10S		
7-316C	UT	TE	5354-5			10S		
SW-PS-2-C1-A	MT	MS	5354-5			10S		
SW-PS-2-C1-A	UT	MS	5354-5			10S		
SW-PS-2-C1-B	MT	MS	5354-5			10S		
SW-PS-2-C1-B	UT	MS	5354-5			10S		
FW-PS-2-C3	MT	MS	5354-5		08S			
FW-PS-2-C3	UT	MS	5354-5		08S			
SW-PS-2-C3-A	MT	MS	5354-5		08S			
SW-PS-2-C3-A	UT	MS	5354-5		08S			
SW-PS-2-C3-C	MT	HS	5354-5				11S	
SW-PS-2-C3-C	UT	HS	5354-5				11S	
SW-PS-2-C3-D	MT	R	5354-5				11S	
SW-PS-2-C3-D	UT	R	5354-5				11S	
SW-PS-2-C3-F	MT	MS	5354-5				12S	
SW-PS-2-C3-F	UT	MS	5354-5				12S	
SW-PS-2-C3-R	MT	HS	5354-5				11S	
SW-PS-2-C3-R	UT	HS	5354-5				11S	
SW-PS-2-C3-J	MT	HS	5354-5		08S			

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-PS-2-C3-J	UT	HS	5354-5		08S			
SW-PS-2-C3-K	MT	R	5354-5		08S			
SW-PS-2-C3-K	UT	R	5354-5		08S			
SW-PS-2-C3-M	MT	HS	5354-5				12S	
SW-PS-2-C3-M	UT	HS	5354-5				12S	
SW-PS-2-C3-P	MT	MS	5354-5				12S	
SW-PS-2-C3-P	UT	MS	5354-5				12S	
SW-PS-2-C4	MT	MS	5354-5				12S	
SW-PS-2-C4	UT	MS	5354-5				12S	
7-316D	MT	TE	5355-5				12S	
7-316D	UT	TE	5355-5				12S	
SW-PS-2-D1-A	MT	HS	5355-5				12S	
SW-PS-2-D1-A	UT	HS	5355-5				12S	
SW-PS-2-D1-B	MT	HS	5355-5				12S	
SW-PS-2-D1-B	UT	HS	5355-5				12S	
FW-PS-2-D3	MT	HS	5355-5				11S	
FW-PS-2-D3	UT	HS	5355-5				11S	
SW-PS-2-D3-A	MT	HS	5355-5				11S	
SW-PS-2-D3-A	UT	HS	5355-5				11S	
SW-PS-2-D3-F	MT	MS	5355-5				12S	
SW-PS-2-D3-F	UT	MS	5355-5				12S	
SW-PS-2-D3-J	MT	HS	5355-5		08S			
SW-PS-2-D3-J	UT	HS	5355-5		08S			
SW-PS-2-X7D-W1	UT	MS	5355-5					Inaccessible for Examination
SW-PS-2-X7D-W1	MT	MS	5355-5					Inaccessible for Examination
FW-RS-2-A1	UT	A	5357-5				12SA	Note No. 2, Cat. B
SW-RS-2-A1-W2	PT	R,A	5357-5		08S			Note No. 2, Cat. B
SW-RS-2-A1-W2	UT	R,A	5357-5		08S			Note No. 2, Cat. B

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-RS-2-A2-W1	UT	A	5357-5			09S		Note No. 2, Cat. B; Code Case N-524
FW-RS-2-A3	PT	R,A	5357-5		08S			Note No. 2, Cat. B
FW-RS-2-A3	UT	R,A	5357-5		08S			Note No. 2, Cat. B
FW-RS-2-A5	PT	R,A	5357-5	RR-A23		07S		Note No. 2, Cat. B
FW-RS-2-A5	UT	R,A	5357-5			07S		Note No. 2, Cat. B
FW-RD-2-A6	PT	R,A	5357-5			10S		Note No. 2, Cat. B
FW-RD-2-A6	UT	R,A	5357-5			10S		Note No. 2, Cat. B
FW-RD-2-A1-W1	PT	R, A	5357-5			10S		Note No. 2, Cat. B - UFSAR 5.2.3.2
FW-RD-2-A1-W1	UT	R, A	5357-5			10S		Note No. 2, Cat. B
FW-RD-2-A8	UT	A	5357-5				12SA	Note No. 2, Cat. B
FW-RD-2-A2-W2	PT	R, A	5357-5				12S	Note No. 2, Cat. B - UFSAR 5.2.3.2
SW-RD-2-A2-W2O	PT	R,A	5357-5				12S	Note 2, Category B-NE-83-842, NE-83-863
SW-RD-2-A2-W2O	UT	R,A	5357-5				12S	Note 2, Category B-NE-83-842, NE-83-863
SW-RD-2-A2-W2	PT	R,A	5357-5		08S			Note 2, Category B-NE-83-842, NE-83-863
SW-RD-2-A2-W2	UT	R,A	5357-5		08S			Note 2, Category B-NE-83-842, NE-83-863
FW-RD-2-A9	PT	A	5357-5		08SA			Note 2, Category B
FW-RD-2-A9	UT	A	5357-5		08SA			Note 2, Category B
SW-RD-2-A3-W7	PT	HS, A	5356-5		08S			Note 2, Category B
SW-RD-2-A3-W7	UT	HS, A	5356-5		08S			Note 2, Category B
SW-RD-2-A3-W9	PT	R, A	5356-5				11S	Note 2, Category B
SW-RD-2-A3-W9	UT	R, A	5356-5				11S	Note 2, Category B
FW-RD-2-A10	PT	HS, A	5356-5				12S	Note 2, Category B
FW-RD-2-A10	UT	HS, A	5356-5				12S	Note 2, Category B
SW-RD-2-A4-W2	PT	MS	5356-5				11S	Note 2, Category A
SW-RD-2-A4-W2	UT	MS	5356-5				11S	Note 2, Category A
FW-RD-2-A11	PT	HS, A	5356-5				11S	Note 2, Category B
FW-RD-2-A11	UT	HS, A	5356-5				11S	Note 2, Category B
FW-RD-2-A16	PT	R, A	5356-5			09S		Note 2, Category B

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
FW-RD-2-A16	UT	R, A	5356-5			09S		Note 2, Category B
FW-RD-2-A12	UT	A	5356-5			10SA		Note 2, Category B
FW-RD-2-A13	PT	MS	5356-5			10S		Note 2, Category B
FW-RD-2-A13	UT	MS	5356-5			10S		Note 2, Category B
SW-RD-2-A6-W1	UT	A	5356-5				11SA	Note 2, Category A
FW-RD-2-A14	PT	HS	5356-5				12S	Note 2, Category B
FW-RD-2-A14	UT	HS	5356-5				12S	Note 2, Category B
SW-RS-2-B1-W1	PT	R, A	5359-5				11S	Note 2, Category B
SW-RS-2-B1-W1	UT	R, A	5359-5				11S	Note 2, Category B
FW-RS-2-B2	UT	A	5359-5		08SA			Note 2, Category B
SW-RS-2-B2-W10A	UT	A	5359-5			09SA		Note 2, Category B
FW-RS-2-B4	UT	A	5359-5			10SA		Note 2, Category B
SW-RS-2-B3-W1	UT	A	5359-5				12SA	Note 2, Category A
FW-RD-2-B1-W1	PT	R, A	5359-5				11S	Note 2, Category B UFSAR 5.2.3.2
FW-RD-2-B1-W1	UT	R, A	5359-5				11S	Note 2, Category B UFSAR 5.2.3.2;
FW-RD-2-B7	UT	A	5359-5			10SA		
FW-RD-2-B2-W2	PT	R	5359-5		08S			Note 2, Category B UFSAR 5.2.3.2
FW-RD-2-B2-W2	UT	R	5359-5		08S			Note 2, Category B UFSAR 5.2.3.2
SW-RD-2-B2-W2O	PT	R	5359-5		08S			Note 2, Category B NE-83-842 & NE-83-863
SW-RD-2-B2-W2O	UT	R	5359-5		08S			Note 2, Category B NE-83-842 & NE-83-863
SW-RD-2-B2-W2	PT	R, A	5359-5			10S		Note 2, Category B NE-83-842 & NE-83-863
SW-RD-2-B2-W2	UT	R, A	5359-5			10S		Note 2, Category B NE-83-842 & NE-83-863
SW-RD-2-B3-W5	UT	A	5358-5		08SA			Note 2, Category B;
SW-RD-2-B3-W6	UT	A	5358-5				11SA	Note 2, Category B
SW-RD-2-B3-W7	PT	MS	5358-5			10S		Note 2, Category B
SW-RD-2-B3-W7	UT	MS	5358-5			10S		Note 2, Category B
SW-RD-2-B3-W8	UT	A	5358-5			10SA		Note 2, Category B
FW-RD-2-B10	PT	HS	5358-5			10S		Note 2, Category B

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
FW-RD-2-B10	UT	HS	5358-5			10S		Note 2, Category B
SW-RD-2-B4-W2	PT	MS , A	5358-5				12S	Note 2, Category A
SW-RD-2-B4-W2	UT	MS, A	5358-5				12S	Note 2, Category A
FW-RD-2-B11	PT	HS	5358-5				11S	Note 2, Category B
FW-RD-2-B11	UT	HS	5358-5				11S	Note 2, Category B
SW-RD-2-B5-W2	PT	R, A	5358-5			09S		Note 2, Category A
SW-RD-2-B5-W2	UT	R, A	5358-5			09S		
FW-RD-2-B16	UT	A	5358-5			09SA		Note 2, Category B
SW-RD-2-B8-W1	PT	R, A	5358-5		08S			Note 2, Category A
SW-RD-2-B8-W1	UT	R, A	5358-5		08S			Note 2, Category A
SW-RD-2-B8-W2	PT	R, A	5358-5		08S			Note 2, Category A
SW-RD-2-B8-W2	UT	R, A	5358-5		08S			Note 2, Category A
FW-RD-2-B13	PT	MS, A	5358-5		08S			Note 2, Category B
FW-RD-2-B13	UT	MS, A	5358-5		08S			Note 2, Category B
FW-RD-2-B18	PT	A	5358-5		08S			Note 2, Category B
FW-RD-2-B18	UT	A	5358-5		08S			Note 2, Category B
FW-RD-2-B14	PT	MS, A	5358-5				11S	Note 2, Category B
FW-RD-2-B14	UT	MS, A	5358-5				11S	Note 2, Category B
FW-RD-2-B19	UT	A	5358-5			10SA		Note 2, Category B
FW-E11-2298-0W1	MT	HS	2298-5			10S		
FW-E11-2298-0W1	UT	HS	2298-5			10S		
SW-E11-2298-2WE	MT	R	2298-5				12S	
SW-E11-2298-2WE	UT	R	2298-5				12S	
FW-E11-2298-2W3	MT	R	2298-5			10S		
FW-E11-2298-2W3	UT	R	2298-5			10S		
FW-E11-2298-4W0	MT	R	2298-5		08S			
FW-E11-2298-4W0	UT	R	2298-5		08S			
SW-E11-2298-6WC	PT	DM, A	2298-5		08S			Note 1 & 2, Category B

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-E11-2298-6WC	UT	DM, A	2298-5		08S			Note 1 & 2, Category B
FW-E11-2298-6W0	PT	HS, A	2298-5		08S			Note 2, Category B
FW-E11-2298-6W0	UT	HS, A	2298-5		08S			Note 2, Category B
FW-E11-2299-OW1	PT	HS, A	2299-5	RR-A23		09S		Note 2, Category B
FW-E11-2299-OW1	UT	HS, A	2299-5	RR-A23		09S		Note 2, Category B
SW-E11-2299-1WB	PT	DM, A	2299-5			09S		Note1 & 2, Category B
SW-E11-2299-1WB	UT	DM, A	2299-5			09S		Note1 & 2, Category B
FW-E11-2299-1W0	MT	R	2299-5				12S	
FW-E11-2299-1W0	UT	R	2299-5				12S	
SW-E11-2299-3WAM	MT	R	2299-5		08S			
SW-E11-2299-3WAM	UT	R	2299-5		08S			
SW-E11-2299-4WQ	MT	R	2299-5			10S		
SW-E11-2299-4WQ	UT	R	2299-5			10S		
FW-E11-2299-2WF3	MT	R	2299-5			09S		
FW-E11-2299-2WF3	UT	R	2299-5			09S		
SW-E11-2299-3WW	MT	R	2299-5				11S	
SW-E11-2299-3WW	UT	R	2299-5				11S	
FW-E11-2299-5W0	MT	HS	2299-5				12S	
FW-E11-2299-5W0	UT	HS	2327-5				12S	
FW-E11-2327-0W1	MT	HS	2327-5		08S			
FW-E11-2327-0W1	UT	HS	2327-5		08S			
FW-E11-2327-3W4	MT	R	2327-5			10S		
FW-E11-2327-3W4	UT	R	2327-5			10S		
SW-E11-2327-4WB	MT	R	2327-5		08S			
SW-E11-2327-4WB	UT	R	2327-5		08S			
FW-E11-2327-0W6	MT	R	2327-5				11S	
FW-E11-2327-0W6	UT	R	2327-5				11S	
SW-E11-2327-6WC	PT	DM, A	2327-5				11S	Notes 1 & 2, Category B

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-E11-2327-6WC	UT	DM, A	2327-5				11S	Notes 1 & 2, Category B
FW-E11-2327-6W0	PT	HS, A	2327-5				11S	Note 2 Category B
FW-E11-2327-6W0	UT	HS, A	2327-5				11S	Note 2 Category B
SW-E21-3052-3WP	MT	HS	3052-5		08S			
SW-E21-3052-3WP	UT	HS	3052-5		08S			
SW-E21-3052-3WN	MT	HS	3052-5				11S	
SW-E21-3052-3WN	UT	HS	3052-5				11S	
SW-E21-3052-4WK	MT	MS	3052-5				12S	
SW-E21-3052-4WK	UT	MS	3052-5				12S	
FW-E21-3052-4WF1	MT	MS	3052-5				12S	
FW-E21-3052-4WF1	UT	MS	3052-5				12S	
SW-E21-3052-4W0X	PT	DM, A	3052-5		08S			Notes 1, 2, & 8, Category B
SW-E21-3052-4W0X	UT	DM, A	3052-5		08S			Notes 1, 2, & 8, Category B
SW-E21-3053-3WP	MT	HS	3053-5			09S		
SW-E21-3053-3WP	UT	HS	3053-5			09S		
SW-E21-3053-3WN	MT	HS	3053-5			09S		
SW-E21-3053-3WN	UT	HS	3053-5			09S		
SW-E21-3053-4WK	MT	MS	3053-5		08S			
SW-E21-3053-4WK	UT	MS	3053-5		08S			
FW-E21-3053-4WF2	MT	MS	3053-5				12S	
FW-E21-3053-4WF2	UT	MS	3053-5				12S	
SW-E21-3053-4W0X	PT	DM, A	3053-5			10S		Notes 1, 2, & 8, Category B
SW-E21-3053-4W0X	UT	DM, A	3053-5			10S		Notes 1, 2, & 8, Category B
FW-E41-2297-2W3	MT	R	2297-5		08S			
FW-E41-2297-2W3	UT	R	2297-5		08S			
FW-E41-2297-3W0	MT	R	2297-5			10S		
FW-E41-2297-3W0	UT	R	2297-5			10S		
FW-E41-2297-0W4	MT	R	2297-5		08S			

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
FW-E41-2297-0W4	UT	R	2297-5		08S			
SW-E51-2192-6WJ	MT	R	2192-5			09S		
SW-E51-2192-6WJ	UT	R	2192-5			09S		
FW-E51-2192-1VW5	MT	R	2192-5				11S	
FW-E51-2192-1VW5	UT	R	2192-5				11S	
FW-E51-2192-0W1	MT	HS	2192-5				11S	
FW-E51-2192-0W1	UT	HS	2192-5				11S	
FW-G33-3096-6WF4	MT	R	3096-5			10S		
FW-G33-3096-6WF4	UT	R	3096-5			10S		
SW-G33-3096-3WG	MT	R	3096-5		08S			
SW-G33-3096-3WG	UT	R	3096-5		08S			
SW-G33-3096-12WD	PT	DM, A	5351-5			09S		Note 1 & 2, Category B
SW-G33-3096-12WD	UT	DM, A	5351-5			09S		Note 1 & 2, Category B
SW-G33-3096-12WB	MT	HS	5351-5			09S		
SW-G33-3096-12WB	UT	HS	5351-5			09S		
FW-G33-3096-12WF2	UT	A	5351-5			10SA		Note 2, Category B
FW-G33-3096-12WF3	PT	HS	5351-5			10S		Note 2, Category B
FW-G33-3096-12WF3	UT	HS	5351-5			10S		Note 2, Category B
SW-G33-3096-5WD	MT	MS	3096-5				11S	
SW-G33-3096-5WD	UT	MS	3096-5				11S	
FW-G33-3096-8W11	MT	R	5351-5			10S		
FW-G33-3096-8W11	UT	R	5351-5			10S		
FW-G33-3096-10WF3	PT	HS	5351-5		08S			Note 2, Category B
FW-G33-3096-10WF3	UT	HS	5351-5		08S			Note 2, Category B
FW-G33-3096-10WF1	PT	R	5351-5				12S	Note 2, Category B
FW-G33-3096-10WF1	UT	R	5351-5				12S	Note 2, Category B
SW-G33-3096-10WD	PT	DM, A	5351-5				12S	Note 1 & 2, Category B
SW-G33-3096-10WD	UT	DM, A	5351-5				12S	Note 1 & 2, Category B

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
FW-G33-3096-10WF4	PT	HS	5351-5		08S			
FW-G33-3096-10WF4	UT	HS	5351-5		08S			
FW-G33-3096-9WF1	PT	MS	5351-5		08S			
FW-G33-3096-9WF1	UT	MS	5351-5		08S			
SW-G33-3096-8WG	MT	R	5351-5				12S	
SW-G33-3096-8WG	UT	R	5351-5				12S	
FW-N21-2336-11W02	MT	HS	3537-5				11S	HPCI Selection
FW-N21-2336-11W02	UT	HS	3537-5				11S	
FW-N21-2336-2W0	MT	MS	3537-5		08S			
FW-N21-2336-2W0	UT	MS	3537-5		08S			
FW-N21-2336-0W13	MT	MS	3537-5			10S		
FW-N21-2336-0W13	UT	MS	3537-5			10S		
SW-N21-2336-13WC	MT	MS	3537-5		08S			
SW-N21-2336-13WC	UT	MS	3537-5		08S			
FW-N21-2336-13W14	MT	HS	3537-5				11S	
FW-N21-2336-13W14	UT	HS	3537-5				11S	
FW-N21-2336-14WF1	MT	MS	3537-5				12S	
FW-N21-2336-14WF1	UT	MS	3537-5				12S	
FW-N21-2336-14W15	MT	HS	3537-5			09S		
FW-N21-2336-14W15	UT	HS	3537-5			09S		
SW-N21-2336-15WP	MT	R	3537-5		08S			
SW-N21-2336-15WP	UT	R	3537-5		08S			
FW-N21-2336-15W0	MT	R	3537-5		08S			
FW-N21-2336-15W0	UT	R	3537-5		08S			
N4A	MT	R	3537-5		08S			
N4A	UT	R	3537-5		08S			
3-316A	MT	TE	3537-5		08S			
3-316A	UT	TE	3537-5		08S			

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
SW-N21-2336-13WE	MT	MS	3537-5		08S			
SW-N21-2336-13WE	UT	MS	3537-5		08S			
3-316B	MT	TE	3537-5		08S			
3-316B	UT	TE	3537-5		08S			
FW-N21-2336-16W19	MT	R	3537-5				11S	
FW-N21-2336-16W19	UT	R	3537-5				11S	
3-316C	MT	TE	3537-5				11S	
3-316C	UT	TE	3537-5				11S	
FW-N21-2336-1W02	MT	HS	3536-5				12S	RCIC Selection
FW-N21-2336-1W02	UT	HS	3536-5				12S	RCIC Selection
SW-N21-2336-1WB	MT	MS	3536-5				12S	RCIC Selection
SW-N21-2336-1WB	UT	MS	3536-5				12S	RCIC Selection
FW-N21-2336-1W03	MT	HS	3536-5	RR-A23		10S		RWCU Selection
FW-N21-2336-1W03	UT	HS	3536-5			10S		RWCU Selection
SW-N21-2336-1WD	MT	HS	3536-5			10S		RCIC Selection
SW-N21-2336-1WD	UT	HS	3536-5			10S		RCIC Selection
SW-N21-2336-1WU	MT	MS	3536-5		08S			RCIC Selection
SW-N21-2336-1WU	UT	MS	3536-5		08S			RCIC Selection
FW-N21-2336-0W1	MT	MS	3536-5			10S		
FW-N21-2336-0W1	UT	MS	3536-5	RR-A23		10S		
SW-N21-2336-1WL	MT	MS	3536-5		08S			
SW-N21-2336-1WL	UT	MS	3536-5		08S			
FW-N21-2336-12W0	MT	MS	3536-5			10S		
FW-N21-2336-12W0	UT	MS	3536-5			10S		
FW-N21-2336-0W3	MT	HS	3536-5				12S	
FW-N21-2336-0W3	UT	HS	3536-5				12S	
SW-N21-2336-3WC	MT	MS	3536-5			09S		
SW-N21-2336-3WC	UT	MS	3536-5			09S		

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.11 Circumferential Piping Weld 4" NPS or Larger								
FW-N21-2336-3W4	MT	HS	3536-5			03C		
FW-N21-2336-3W4	UT	HS	3536-5			03C		
SW-N21-2336-4WC	MT	MS	3536-5				11S	
SW-N21-2336-4WC	UT	MS	3536-5				11S	
FW-N21-2336-4W5	MT	HS	3536-5				11S	
FW-N21-2336-4W5	UT	HS	3536-5				11S	
3-316F	MT	TE	3536-5				12S	
3-316F	UT	TE	3536-5				12S	
SW-N21-2336-3WE	MT	MS	3536-5			09S		
SW-N21-2336-3WE	UT	MS	3536-5			09S		
3-316E	MT	TE	3536-5				12S	
3-316E	UT	TE	3536-5				12S	
3-316D	MT	TE	3536-5			10S		
3-316D	UT	TE	3536-5			10S		
1-318	MT	TE	5361-5				11S	
1-318	UT	TE	5361-5				11S	
3-318A	MT	R	5361-5			09S		
3-318A	UT	R	5361-5			09S		
3-318B	MT	R	5361-5			09S		
3-318B	UT	R	5361-5			09S		
N8A	PT	TE	5361-5		08S			Note 2, Category B
N8A	UT	TE	5361-5		08S			
N8B	PT	TE	5361-5			10S		
N8B	UT	TE	5361-5			10S		
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-A1-ALU	UT		5352-5					Code Case N-524
SW-PS-2-A1-ALU	MT		5352-5					Code Case N-524

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-A1-ALD-I	MT		5352-5		08S			Code Case N-524
SW-PS-2-A1-ALD-I	UT		5352-5		08S			Code Case N-524
SW-PS-2-A1-ALD-O	UT		5352-5		08S			Code Case N-524
SW-PS-2-A1-ALD-O	MT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLU-I	MT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLU-I	UT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLU-O	UT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLU-O	MT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLD	MT		5352-5		08S			Code Case N-524
SW-PS-2-A1-BLD	UT		5352-5		08S			Code Case N-524
SW-PS-2-A3LU	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3LU	UT		5352-5			09S		Code Case N-524
SW-PS-2-A3LD-O	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3LD-O	UT		5352-5			09S		Code Case N-524
SW-PS-2-A3-ALU-O	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3-ALU-O	UT		5352-5			09S		Code Case N-524
SW-PS-2-A3-ALD	UT		5352-5			09S		Code Case N-524
SW-PS-2-A3-ALD	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3-LLD	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3-LLD	UT		5352-5			09S		Code Case N-524
SW-PS-2-A3-LLU	MT		5352-5			09S		Code Case N-524
SW-PS-2-A3-LLU	UT		5352-5			09S		Code Case N-524
SW-PS-2-A4LU-0	MT		5352-5				11S	Code Case N-524
SW-PS-2-A4LU-0	UT		5352-5				11S	Code Case N-524
SW-PS-2-A4LD	MT		5352-5				11S	Code Case N-524
SW-PS-2-A4LD	UT		5352-5				11S	Code Case N-524
SW-PS-2-A4-BLU-0	MT		5352-5				12S	Code Case N-524
SW-PS-2-A4-BLU-0	UT		5352-5				12S	Code Case N-524

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-A4-BLD	MT		5352-5				12S	Code Case N-524
SW-PS-2-A4-BLD	UT		5352-5				12S	Code Case N-524
SW-PS-2-A6LU	MT		5352-5				11S	Code Case N-524
SW-PS-2-A6LU	UT		5352-5				11S	Code Case N-524
SW-PS-2-B1-ALU	MT		5353-5			09S		Code Case N-524
SW-PS-2-B1-ALU	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-ALD-I	MT		5353-5			09S		Code Case N-524
SW-PS-2-B1-ALD-I	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-ALD-O	MT		5353-5			09S		Code Case N-524
SW-PS-2-B1-ALD-O	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLU-I	MT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLU-I	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLU-O	MT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLU-O	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLD	UT		5353-5			09S		Code Case N-524
SW-PS-2-B1-BLD	MT		5353-5			09S		Code Case N-524
SW-PS-2-B3LU	MT		5353-5		08S			Code Case N-524
SW-PS-2-B3LU	UT		5353-5		08S			Code Case N-524
SW-PS-2-B3LD-O	MT		5353-5		08S			Code Case N-524
SW-PS-2-B3LD-O	UT		5353-5		08S			Code Case N-524
SW-PS-2-B3-ALU-O	UT		5353-5		08S			Code Case N-524
SW-PS-2-B3-ALU-O	MT		5353-5		08S			Code Case N-524
SW-PS-2-B3-ALD	UT		5353-5		08S			Code Case N-524
SW-PS-2-B3-ALD	MT		5353-5		08S			Code Case N-524
SW-PS-2-B3-TLU	MT		5353-5				11S	Code Case N-524
SW-PS-2-B3-TLU	UT		5353-5				11S	Code Case N-524
SW-PS-2-B3-TLD-I	MT		5353-5				11S	Code Case N-524
SW-PS-2-B3-TLD-I	UT		5353-5				11S	Code Case N-524

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-B3-TLD-O	MT		5353-5				11S	Code Case N-524
SW-PS-2-B3-TLD-O	UT		5353-5				11S	Code Case N-524
SW-PS-2-B4-LU-I	UT		5353-5				11S	Code Case N-524
SW-PS-2-B4-LU-I	MT		5353-5				11S	Code Case N-524
SW-PS-2-B4-LU-O	UT		5353-5				11S	Code Case N-524
SW-PS-2-B4-LU-O	MT		5353-5				11S	Code Case N-524
SW-PS-2-B4LD	MT		5353-5				11S	Code Case N-524
SW-PS-2-B4LD	UT		5353-5				11S	Code Case N-524
SW-PS-2-C1-ALU	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-ALU	UT		5354-5			10S		Code Case N-524
SW-PS-2-C1-ALD-I	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-ALD-I	UT		5354-5			10S		Code Case N-524
SW-PS-2-C1-ALD-O	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-ALD-O	UT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLU-I	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLU-I	UT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLU-O	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLU-O	UT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLD	MT		5354-5			10S		Code Case N-524
SW-PS-2-C1-BLD	UT		5354-5			10S		Code Case N-524
SW-PS-2-C3LU	MT		5354-5		08S			Code Case N-524
SW-PS-2-C3LU	UT		5354-5		08S			Code Case N-524
SW-PS-2-C3LD-O	MT		5354-5		08S			Code Case N-524
SW-PS-2-C3LD-O	UT		5354-5		08S			Code Case N-524
SW-PS-2-C3-ALU-O	MT		5354-5		08S			Code Case N-524
SW-PS-2-C3-ALU-O	UT		5354-5		08S			Code Case N-524
SW-PS-2-C3-ALD	MT		5354-5		08S			Code Case N-524
SW-PS-2-C3-ALD	UT		5354-5		08S			Code Case N-524

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-C3-PLU	MT		5354-5				12S	Code Case N-524
SW-PS-2-C3-PLU	UT		5354-5				12S	Code Case N-524
SW-PS-2-C3-PLD-I	MT		5354-5				12S	Code Case N-524
SW-PS-2-C3-PLD-I	UT		5354-5				12S	Code Case N-524
SW-PS-2-C3-PLD-O	MT		5354-5				12S	Code Case N-524
SW-PS-2-C3-PLD-O	UT		5354-5				12S	Code Case N-524
SW-PS-2-C4LU-I	UT		5354-5				12S	Code Case N-524
SW-PS-2-C4LU-I	UT		5354-5				12S	Code Case N-524
SW-PS-2-C4LU-O	UT		5354-5				12S	Code Case N-524
SW-PS-2-C4LU-O	UT		5354-5				12S	Code Case N-524
SW-PS-2-C4LD	MT		5354-5				12S	Code Case N-524
SW-PS-2-C4LD	UT		5354-5				12S	Code Case N-524
SW-PS-2-D1-ALU	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-ALU	UT		5355-5				12S	Code Case N-524
SW-PS-2-D1-ALD-I	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-ALD-I	UT		5355-5				12S	Code Case N-524
SW-PS-2-D1-ALD-O	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-ALD-O	UT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLU-I	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLU-I	UT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLU-O	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLU-O	UT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLD	MT		5355-5				12S	Code Case N-524
SW-PS-2-D1-BLD	UT		5355-5				12S	Code Case N-524
SW-PS-2-D3LU	MT		5355-5				11S	Code Case N-524
SW-PS-2-D3LU	UT		5355-5				11S	Code Case N-524
SW-PS-2-D3LD-O	MT		5355-5				11S	Code Case N-524
SW-PS-2-D3LD-O	UT		5355-5				11S	Code Case N-524

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-PS-2-D3-ALU-O	MT		5355-5				11S	Code Case N-524
SW-PS-2-D3-ALU-O	UT		5355-5				11S	Code Case N-524
SW-PS-2-D3-ALD	MT		5355-5				11S	Code Case N-524
SW-PS-2-D3-ALD	UT		5355-5				11S	Code Case N-524
SW-RS-2-A1LD	UT		5357-5				12SA	Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LU-I	PT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LU-I	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LU-O	PT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LU-O	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LD	PT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A1-W2LD	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A2-W1LU	UT		5357-5			09S		Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A2-W1LD-I	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A2-W1LD-O	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A3-LU-I	PT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A3-LU-I	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A3-LU-O	PT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A3-LU-O	UT		5357-5		08S			Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A5LU-I	PT		5357-5			10S		Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A5LU-I	UT		5357-5			10S		Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A5LU-O	PT		5357-5			10S		Note No. 2, Cat. B; Code Case N-524
SW-RS-2-A5LU-O	UT		5357-5			10S		Note No. 2, Cat. B; Code Case N-524
SW-RD-2-A6LD	PT		5357-5			10S		Code Case N-524
SW-RD-2-A6LD	UT		5357-5			10S		Code Case N-524
SW-RD-2-A8LD-I	UT		5357-5				12SA	Code Case N-524
SW-RD-2-A8LD-O	UT		5357-5				12SA	Code Case N-524
FW-RD-2-A2-W2	UT		5357-5				12S	Note No. 2, Cat. B - UFSAR 5.2.3.2
SW-RD-2-A2-W2OLU	PT		5357-5				12S	Code Case N-524

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-RD-2-A2-W2OLU	UT		5357-5				12S	Code Case N-524
SW-RD-2-A2-W2OLD	PT		5357-5		08S		12S	Code Case N-524
SW-RD-2-A2-W2OLD	UT		5357-5				12S	Code Case N-524
SW-RD-2-A2-W2LU	PT		5357-5		08S		12S	Code Case N-524
SW-RD-2-A2-W2LU	UT		5357-5		08S			Code Case N-524
SW-RD-2-A2-W2LD-A	PT		5357-5		08S			Code Case N-524
SW-RD-2-A2-W2LD-A	UT		5357-5		08S			Code Case N-524
SW-RD-2-A2-W2LD-B	PT		5357-5		08S			Code Case N-524
SW-RD-2-A2-W2LD-B	UT		5357-5		08S			Code Case N-524
SW-RD-2-A9LU-A	PT		5357-5		08SA			Code Case N-524
SW-RD-2-A9LU-A	UT		5357-5		08SA			Code Case N-524
SW-RD-2-A9LU-B	PT		5357-5		08SA			Code Case N-524
SW-RD-2-A9LU-B	UT		5357-5		08SA			Code Case N-524
SW-RD-2-A9LD-A	PT		5356-5		08SA			Code Case N-524
SW-RD-2-A9LD-A	UT		5356-5		08SA			Code Case N-524
SW-RD-2-A9LD-B	PT		5356-5		08SA			Code Case N-524
SW-RD-2-A9LD-B	UT		5356-5		08SA			Code Case N-524
SW-RD-2-A3-W7LD	PT		5356-5		08S			Code Case N-524
SW-RD-2-A3-W7LD	UT		5356-5		08S			Code Case N-524
SW-RD-2-A3-W9LU	PT		5356-5				11S	Code Case N-524
SW-RD-2-A3-W9LU	UT		5356-5				11S	Code Case N-524
SW-RD-2-A10LD	PT		5356-5				12S	Note 2, Category B; Code Case N-524
SW-RD-2-A10LD	UT		5356-5				12S	Note 2, Category B; Code Case N-524
SW-RD-2-A4-W2LU-I	PT		5356-5				11S	Note 2, Category B; Code Case N-524
SW-RD-2-A4-W2LU-I	UT		5356-5				11S	Note 2, Category B; Code Case N-524
SW-RD-2-A4-W2LD	PT		5356-5				11S	Note 2, Category A; Code Case N-524
SW-RD-2-A4-W2LD	UT		5356-5				11S	Note 2, Category A; Code Case N-524
SW-RD-2-A11LD	PT		5356-5				11S	Note 2, Category B; Code Case N-524

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-RD-2-A11LD	UT		5356-5				11S	Note 2, Category B; Code Case N-524
SW-RD-2-A16LU	PT		5356-5			09S		Note 2, Category B; Code Case N-524
SW-RD-2-A16LU	UT		5356-5			09S		Note 2, Category B; Code Case N-524
SW-RD-2-A12LD	UT		5356-5			10SA		Note 2, Category B; Code Case N-524
SW-RD-2-A12LD	PT		5356-5			10SA		Note 2, Category B; Code Case N-524
FW-RD-2-A13LD	PT		5356-5			10S		Note 2, Category B; Code Case N-524
FW-RD-2-A13LD	UT		5356-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-A6-W1LU	UT		5356-5				11SA	Note 2, Category B; Code Case N-524
SW-RD-2-A6-W1LD-I	UT		5356-5				11SA	Note 2, Category A; Code Case N-523
SW-RD-2-A14LD	PT		5359-5				12S	Note 2, Category B; Code Case N-524
SW-RD-2-A14LD	UT		5356-5				12S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LU	PT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LU	UT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LD-I	PT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LD-I	UT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LD-O	PT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B1-W1LD-O	UT		5359-5				11S	Note 2, Category B; Code Case N-524
SW-RS-2-B2LU	UT		5359-5		08SA			Note 2, Category B; Code Case N-524
SW-RS-2-B2LU	PT		5359-5		08SA			Note 2, Category B; Code Case N-524
SW-RS-2-B2LD	UT		5359-5		08SA			Note 2, Category B; Code Case N-524
SW-RS-2-B2LD	PT		5359-5		08SA			Note 2, Category B; Code Case N-524
SW-RS-2-B2-W10ALU-A	UT		5359-5			09SA		Note 2, Category B; Code Case N-524
SW-RS-2-B2-W10ALU-B	UT		5359-5			09SA		Note 2, Category B; Code Case N-524
SW-RS-2-B2-W10ALD	UT		5359-5			09SA		Note 2, Category B; Code Case N-524
SW-RS-2-B4LD	UT		5359-5			10SA		Note 2, Category B; Code Case N-524
SW-RS-2-B3-W1LU	UT		5359-5				12SA	Note 2, Category A; Code Case N-524
SW-RS-2-B3-W1LD-O	UT		5359-5				12SA	Note 2, Category A; Code Case N-524
SW-RS-2-B3-W1LD-I	UT		5359-5				12SA	Note 2, Category A; Code Case N-524

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-RD-2-B7LU	UT		5359-5			10SA		
SW-RD-2-B2-W2OLU	PT		5359-5		08S			Code Case N-524
SW-RD-2-B2-W2OLU	UT		5359-5		08S			Code Case N-524
SW-RD-2-B2-W2OLD	PT		5359-5		08S			Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2OLD	UT		5359-5		08S			Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LU	PT		5359-5		08S			Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LU	UT		5359-5		08S			Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LD-A	PT		5359-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LD-A	UT		5359-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LD-B	PT		5359-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B2-W2LD-B	UT		5359-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B3-W5LU-A	PT		5358-5		08SA			Note 2, Category B; Code Case N-524
SW-RD-2-B3-W5LU-A	UT		5358-5		08SA			Note 2, Category B; Code Case N-524
SW-RD-2-B3-W5LU-B	PT		5358-5		08SA			Note 2, Category B; Code Case N-524
SW-RD-2-B3-W5LU-B	UT		5358-5		08SA			Note 2, Category B; Code Case N-524
SW-RD-2-B3-W6LD	UT		5358-5				11SA	Note 2, Category B; Code Case N-524
SW-RD-2-B3-W7LD	PT		5358-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B3-W7LD	UT		5358-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B3-W8LU	UT		5358-5			10SA		Note 2, Category B; Code Case N-524
FW-RD-2-B10LD	PT		5358-5			10S		Note 2, Category B; Code Case N-524
FW-RD-2-B10LD	UT		5358-5			10S		Note 2, Category B; Code Case N-524
SW-RD-2-B4-W2LU-I	PT		5358-5				12S	Note 2, Category A; Code Case N-524
SW-RD-2-B4-W2LU-I	UT		5358-5				12S	Note 2, Category A; Code Case N-524
SW-RD-2-B4-W2LD	PT		5358-5				12S	Note 2, Category A; Code Case N-524
SW-RD-2-B4-W2LD	UT		5358-5				12S	Note 2, Category A; Code Case N-524
FW-RD-2-B11LD	PT		5358-5				11S	Code Case N-524
FW-RD-2-B11LD	UT		5358-5				11S	Code Case N-524
SW-RD-2-B5-W2LU-I	PT		5358-5			09S		Code Case N-524

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-RD-2-B5-W2LU-I	UT		5358-5			09S		Code Case N-524
SW-RD-2-B5-W2LD	PT		5358-5			09S		Code Case N-524
SW-RD-2-B5-W2LD	UT		5358-5			09S		Code Case N-524
SW-RD-2-B16LU	UT		5358-5			09SA		Code Case N-524
SW-RD-2-B8-W1LU	PT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W1LU	UT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W1LD-I	PT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W1LD-I	UT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W2LU-I	PT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W2LU-I	UT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W2LD	PT		5358-5		08S			Code Case N-524
SW-RD-2-B8-W2LD	UT		5358-5		08S			Code Case N-524
SW-RD-2-B13LD	PT		5358-5		08S			Code Case N-524
SW-RD-2-B13LD	UT		5358-5		08S			Code Case N-524
SW-RD-2-B18LU	PT		5358-5		08SA			Code Case N-524
SW-RD-2-B18LU	UT		5358-5		08SA			Code Case N-524
SW-RD-2-B14LD	PT		5358-5				11S	Code Case N-524
SW-RD-2-B14LD	UT		5358-5				11S	Code Case N-524
SW-RD-2-B19LU	UT		5358-5			10SA		Code Case N-524
SW-E11-2298-6WCLD	PT		2298-5		08SA			Code Case N-524
SW-E11-2298-6WCLD	UT		2298-5		08SA			Code Case N-524
SW-E11-2298-6W0LU	PT		2298-5		08SA			Code Case N-524
SW-E11-2298-6W0LU	UT		2298-5		08SA			Code Case N-524
SW-E11-2299-0W1LD	PT		2299-5			09S		Code Case N-524
SW-E11-2299-0W1LD	UT		2299-5			09S		Code Case N-524
SW-E11-2299-1WBLU	PT		2299-5			09S		Code Case N-524
SW-E11-2299-1WBLU	UT		2299-5			09S		Code Case N-524
SW-E11-2327-6WCLD	PT		2327-5				11S	Code Case N-524

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-J								
B9.12 Longitudinal piping Weld 4" NPS or Larger								
SW-E11-2327-6WCLD	UT		2327-5				11S	Code Case N-524
SW-E11-2327-6W0LU	PT		2327-5				11S	Code Case N-524
SW-E11-2327-6W0LU	UT		2327-5				11S	Code Case N-524
B-J								
B9.21 Circumferential Piping Weld Less Than 4" NPS								
FW-G33-3096-16WF22	PT	R	3096-5		08S			
FW-G33-3096-16WF14	MT	HS	3096-5			10S		
FW-G33-3096-16WF15	MT	R	3096-5				11S	
FW-G33-3096-16WF17	MT	R	3096-5				12S	
FW-G33-3096-H	MT	HS	3096-5				12S	
B-J								
B9.31 Branch Pipe Connection Weld 4" or Larger								
SW-PS-2-A3-L	MT	HS	5352-5			09S		
SW-PS-2-A3-L	UT	HS	5352-5			09S		
SW-PS-2-B3-H	MT	R	5353-5		08S			
SW-PS-2-B3-H	UT	R	5353-5		08S			
SW-PS-2-D3-E	MT	R	5355-5				12S	
SW-PS-2-D3-E	UT	R	5355-5				12S	
SW-RD-2-A1-W1	PT	R, A	5357-5		08S			Note No. 2, Cat. A
SW-RD-2-A1-W1	UT	R, A	5357-5		08S			Note No. 2, Cat. A
SW-RD-2-A3-W3	PT	R, A	5356-5			09S		Note 2, Category B
SW-RD-2-A3-W3	UT	R, A	5356-5			09S		Note 2, Category B
SW-RS-2-B3-W2	PT	R	5359-5				11S	Note 2, Category A
SW-RS-2-B3-W2	UT	R	5359-5				11S	Note 2, Category A
SW-RD-2-B3-W4	PT	R, A	5358-5				12S	Note 2, Category A
SW-RD-2-B3-W4	UT	R, A	5358-5				12S	Note 2, Category A
FW-E11-2299-5WF5	MT	MS	2299-5		08S			
FW-E11-2299-5WF5	UT	MS	2299-5		08S			

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-K-1								
B10.10 Piping Integral Attachment Weld								
SW-PS-2-A2-AA1	MT	> 5/8 T"	5352-5		07C			ISI Eval. 99-055; Code Case N-509
SW-PS-2-A2-AA2	MT	> 5/8 T"	5352-5		07C			ISI Eval. 99-055; Code Case N-509
SW-PS-2-A2-AA3	MT	> 5/8 T"	5352-5		07C			ISI Eval. 99-055; Code Case N-509
SW-PS-2-A2-AA4	MT	> 5/8 T"	5352-5		07C			ISI Eval. 99-055; Code Case N-509
SW-N21-2336-20WB	MT	> 5/8 T"	3537-5			10S		Code Case N-509
SW-N21-2336-20WC	MT	> 5/8 T"	3537-5			10S		Code Case N-509
SW-N21-2336-20WD	MT	> 5/8 T"	3537-5			10S		Code Case N-509
SW-N21-2336-20WE	MT	> 5/8 T"	3537-5			10S		Code Case N-509
B-K-1								
B10.20 Pump Integral Attachment Weld								
SW-B31-5365-Pump A-WA	PT	> 5/8 T"	5365-5				12S	Code Case N-509
B-L-2								
B12.20 Pump Casing								
	VT-3	Visual VT-3	5365-5					Only if Disassembled
	VT-3	Visual VT-3	5365-5					Only if Disassembled
B-M-2								
B12.50 Valve Body								
B21F022A	VT-3	>4 NPS"	5352-5					Only if Disassembled
B21F022B	VT-3	>4 NPS"	5353-5					Only if Disassembled
B21F022C	VT-3	>4 NPS"	5354-5					Only if Disassembled
B21F022D	VT-3	>4 NPS"	5355-5		07C			Only if Disassembled
B21F028A	VT-3	>4 NPS"	5352-5					Only if Disassembled
B21F028B	VT-3	>4 NPS"	5353-5		07C			Only if Disassembled
B21F028C	VT-3	>4 NPS"	5354-5		07C			Only if Disassembled
B21F028D	VT-3	>4 NPS"	5355-5					Only if Disassembled
B21F013A	VT-3	>4 NPS"	5355-5					Only if Disassembled
B21F013B	VT-3	>4 NPS"	5354-5					Only if Disassembled
B21F013C	VT-3	>4 NPS"	5353-5					Only if Disassembled

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-M-2								
B12.50 Valve Body								
B21F013D	VT-3	>4 NPS"	5353-5					Only if Disassembled
B21F013E	VT-3	>4 NPS"	5354-5					Only if Disassembled
B21F013F	VT-3	>4 NPS"	5353-5					Only if Disassembled
B21F013G	VT-3	>4 NPS"	5353-5					Only if Disassembled
B21F013H	VT-3	>4 NPS"	5354-5					Only if Disassembled
B21F013J	VT-3	>4 NPS"	5354-5					Only if Disassembled
B21F013K	VT-3	>4 NPS"	5353-5					Only if Disassembled
B21F013L	VT-3	>4 NPS"	5352-5					Only if Disassembled
B21F013M	VT-3	>4 NPS"	5352-5					Only if Disassembled
B21F013N	VT-3	>4 NPS"	5352-5					Only if Disassembled
B21F013P	VT-3	>4 NPS"	5355-5					Only if Disassembled
B21F013R	VT-3	>4 NPS"	5354-5					Only if Disassembled
B31F031A	VT-3	>4 NPS"	5357-5					Only if Disassembled
B31F031B	VT-3	>4 NPS"	5359-5					Only if Disassembled
B31F023A	VT-3	>4 NPS"	5357-5					Only if Disassembled
B31F023B	VT-3	>4 NPS"	5359-5					Only if Disassembled
E11F015A	VT-3	>4 NPS"	2298-5		07C			Only if Disassembled
E11F015B	VT-3	>4 NPS"	2327-5					Only if Disassembled
E11F050A	VT-3	>4 NPS"	2298-5		07C			Only if Disassembled
E11F050B	VT-3	>4 NPS"	2327-5		07C			Only if Disassembled
E11F060A	VT-3	>4 NPS"	2298-5					Only if Disassembled
E11F060B	VT-3	>4 NPS"	2327-5					Only if Disassembled
E11F008	VT-3	>4 NPS"	2299-5					Only if Disassembled
E11F009	VT-3	>4 NPS"	2299-5					Only if Disassembled
E11F608	VT-3	>4 NPS"	2299-5					Only if Disassembled
E11F067	VT-3	>4 NPS"	2299-5					Only if Disassembled
E21F005A	VT-3	>4 NPS"	3052-5					Only if Disassembled
E21F005B	VT-3	>4 NPS"	3053-5					Only if Disassembled

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-M-2								
B12.50 Valve Body								
E21F006A	VT-3	>4 NPS"	3052-5					Only if Disassembled
E21F006B	VT-3	>4 NPS"	3053-5		07C			Only if Disassembled
E21F007A	VT-3	>4 NPS"	3052-5					Only if Disassembled
E21F007B	VT-3	>4 NPS"	3053-5					Only if Disassembled
E41F002	VT-3	>4 NPS"	2297-5					Only if Disassembled
E41F003	VT-3	>4 NPS"	2297-5					Only if Disassembled
E41F006	VT-3	>4 NPS"	5352-5					Only if Disassembled
E51F013	VT-3	>4 NPS"	3536-5					Only if Disassembled
G33F001	VT-3	>4 NPS"	3096-5					Only if Disassembled
G33F004	VT-3	>4 NPS"	3096-5					Only if Disassembled
G33F106	VT-3	>4 NPS"	5351-5					Only if Disassembled
G33F100	VT-3	>4 NPS"	5351-5					Only if Disassembled
G33F102	VT-3	>4 NPS"	5351-5					Only if Disassembled
B21F010A	VT-3	>4 NPS"	3537-5					Only if Disassembled
B21F010B	VT-3	>4 NPS"	3536-5		07C			Only if Disassembled
B21F076A	VT-3	>4 NPS"	3537-5		07C			Only if Disassembled
B21F076B	VT-3	>4 NPS"	3536-5		07C			Only if Disassembled
B21F032A	VT-3	>4 NPS"	3537-5		07C			Only if Disassembled
B21F032B	VT-3	>4 NPS"	3536-5		07C			Only if Disassembled
B21F011A	VT-3	>4 NPS"	3537-5					Only if Disassembled
B21F011B	VT-3	>4 NPS"	3536-5					Only if Disassembled
B-N-1								
B13.10 Reactor Vessel Interior - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.								
Shroud Head	VT-3	Vessel Interior			07CP			
Shroud Head Bolts	VT-3	Vessel Interior			07CP			
Shroud Head Bolts	UT	A						Note No. 9
Steam Separator Assy.	VT-3	Vessel Interior			07CP			

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-N-1								
B13.10	**Reactor Vessel Interior - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.**							
Feedwater Sparger	VT-3	Vessel Interior			07CP			NUREG 0619 at least once every 4 Cycles
Core Spray Sparger and Interior Piping	VT-3	Vessel Interior, A			07C			Note No. 12
Top Guide	VT-3	Vessel Interior			07CP			Note No. 16
Instrumentation Lines	VT-3	Vessel Interior, A			07CP			Note No. 7
Sample Holders	VT-3	Vessel Interior			08SP	09SP	12SP	
Guide Rod Holders	VT-3	Vessel Interior			07CP	09SP	12SP	
Core Shroud	VT-3	Vessel Interior			07CP			Note No. 19
Core Shroud	VT-1	Vessel Interior, A			07CP			Note No. 19
Core Shroud	UT	Vessel Interior, A						Note No. 19
Recirculation Inlet Nozzle	VT-3	Vessel Interior			08SP	10SP		
Jet Pump Components	VT-3	Vessel Interior, A			07CP			Note No. 17
Jet Pump Hold Down Beams	VT-3	Vessel Interior			07CP			
Jet Pump Hold Down Beams	UT	Vessel Interior, A				09S		Note No. 3
Steam Dryer Assembly	VT-3	Vessel Interior			07CP			Note No. 11
Control Rod Drive Housings	VT-3	Vessel Interior						Only if Accessible
Flux Monitor Housings	VT-3	Vessel Interior						Only if Accessible
CDP and SLC Line	VT-3	Vessel Interior						Only if Accessible
Access Hole Cover	VT-3	Vessel Interior, A				09S		Note No. 13
B-N-2								
B13.20	**RPV Interior Welded Attachments Within Beltline Region - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.**							
Jet Pump Riser Brace Arms	VT-1	Vessel Interior, A			07CP			
Surveillance Specimen Bracket	VT-1	Attachment Weld			07CP			
B-N-2								
B13.30	**RPV Interior Welded Attachments Beyond Beltline Region - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.**							
Steam Dryer Support Lugs	VT-3	Interior Attachment Beyond Beltline			07CP			

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-N-2								
B13.30	**RPV Interior Welded Attachments Beyond Beltline Region - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.**							
Core Spray Piping Brackets	VT-3	Interior Attachment Beyond Beltline			07CP			
Feedwater Sparger Brackets	VT-3	Interior Attachment Beyond Beltline			07CP			
B-N-2								
B13.40	**Welded Core Support Structure - Vessel Internals are examined using remote visual techniques. Exams listed are code required exams. More detailed techniques are utilized as per BWRVIP I&E Guidelines.**							
Lower Core Shroud	VT-3	Core Support, A			07CP			Note No. 19
Shroud Welds	UT	A				09S		Note No. 19
Core Support Assy.	VT-3	A			07CP			
Peripheral Fuel Support	VT-3	A			07CP			
B-O								
B14.10	**Welds in CRD Housing**							
CRDH-X02-Y27-W1	PT	10% Peripheral Housing Welds	5363-5		08S			
CRDH-X02-Y31-W1	PT	10% Peripheral Housing Welds	5363-5			10S		
CRDH-X02-Y35-W1	PT	10% Peripheral Housing Welds	5363-5				11S	
CRDH-X02-Y39-W1	PT	10% Peripheral Housing Welds	5363-5				12S	
CRDH-X02-Y27-W2	PT	10% Peripheral Housing Welds	5363-5		08S			
CRDH-X02-Y31-W2	PT	10% Peripheral Housing Welds	5363-5			10S		
CRDH-X02-Y35-W2	PT	10% Peripheral Housing Welds	5363-5				11S	
CRDH-X02-Y39-W2	PT	10% Peripheral Housing Welds	5363-5				12S	
B-P								

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
B-P								
B15.X Class 1 Pressure Retaining Boundary								
B21, B31, C41, E11, E21, E41, E51, G33, N21, P34	VT-2	Class1 Pressure Retaining Boundary			07C, 08S	09S, 10S	11S	X Includes items - B15.10, B15.50, B15.60 and B15.70. Each Refueling Outage; Note 15
B21, B31, C41, E11, E21, E41, E51, G33, N21, P34		Class1 Pressure Retaining Boundary					12S	X Includes items - B15.11, B15.51, B15.61 and B15.71. Each Interval, Code Case N-498-1
C-A								
C1.10 Shell Circumferential Weld								
SW-E11-D2-HX-11	UT	Gross Structural Discontinuity	5370-5		08S			
C-A								
C1.20 Head Circumferential Weld								
SW-E11-D2-HX-05	UT	Gross Structural Discontinuity	5370-5				11S	
C-B								
C2.21 Nozzle to Shell (or Head) Weld								
SW-E11-D2-HX-01	MT	Shell - T >.5"	5370-5		08S			
SW-E11-D2-HX-01	UT	Shell - T >.5"	5370-5		08S			
SW-E11-D2-HX-10	MT	Shell - T >.5"	5370-5				11S	
SW-E11-D2-HX-10	UT	Shell - T >.5"	5370-5				11S	
C-B								
C2.22 Nozzle Inside Radius Section								
SW-E11-D2-HX-01 IRS	UT				08S			
SW-E11-D2-HX-10 IRS	UT						11S	
C-C								
C3.10 Intregally Welded Attachment (Vessel)								
SW-E11-D2-HXS-05	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-06	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-07	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-09	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-10	MT	10%	5370-5		08S			Code Case N-509

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-C								
C3.10 Intregally Welded Attachment (Vessel)								
SW-E11-D2-HXS-11	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-12	MT	10%	5370-5		08S			Code Case N-509
SW-E11-D2-HXS-13	MT	10%	5370-5			09S		Code Case N-509
SW-E11-D2-HXS-14	MT	10%	5370-5			09S		Code Case N-509
SW-E11-D2-HXS-15	MT	10%	5370-5			09S		Code Case N-509
SW-E11-D2-HXS-16	MT	10%	5370-5			09S		Code Case N-509
SW-E11-D2-HXS-17	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-18	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-19	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-20	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-21	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-22	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-23	MT	10%	5370-5				11S	Code Case N-509
SW-E11-D2-HXS-24	MT	10%	5370-5				11S	Code Case N-509
C-C								
C3.20 Intregally Welded Attachment (Piping)								
C11-50-2113-G262A	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262B	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262C	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262D	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262E	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262F	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262G	MT	10%	5375-5				11S	Code Case N-509
C11-50-2113-G262H	MT	10%	5375-5				11S	Code Case N-509
SW-E11-3151-4WE	MT	10%	3151-5				12S	Code Case N-509
SW-E11-3151-4WF	MT	10%	3151-5				12S	Code Case N-509
SW-E11-3151-4WG	MT	10%	3151-5				12S	Code Case N-509
SW-E11-3151-4WH	MT	10%	3151-5				12S	Code Case N-509

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-C								
C3.20 Intregally Welded Attachment (Piping)								
SW-E11-3151-4WJ	MT	10%	3151-5				12S	Code Case N-509
SW-E11-3151-4WK	MT	10%	3151-5				12S	Code Case N-509
PSFW-E21-3147-301	MT	10%	3147-5		07C			Code Case N-509
PSFW-E41-3167-IWE	MT	10%	3167-5			10S		Code Case N-509
PSFW-E41-3167-IWF	MT	10%	3167-5			10S		Code Case N-509
PSFW-E41-3167-IWG	MT	10%	3167-5			10S		Code Case N-509
PSFW-E41-3167-IWH	MT	10%	3167-5			10S		Code Case N-509
C-F-1								
Augmented NRC Commitment								
FW-C41-2979-81S82	PT	A	2979-5				12S	EF2-53.873
FW-C41-2979-72S73	PT	A	2979-5		08S			EF2-53.873
FW-C41-2979-63S64	PT	A	2979-5			09S		EF2-53.873
FW-C41-2979-64S65	PT	A	2979-5			09S		EF2-53.873
FW-C41-2979-P	PT	A	2979-5		07C			EF2-53.873
FW-C41-2979-L	PT	A	2979-5			10S		EF2-53.873
FW-C41-2979-50S51	PT	A	2979-5				11S	EF2-53.873
FW-C41-2979-17S18	PT	A	2979-5				12S	EF2-53.873
FW-C41-2979-2S3	PT	A	2979-5		08S			EF2-53.873
FW-C41-2979-11S12	PT	A	2979-5			10S		EF2-53.873
FW-C41-2979-1S2	PT	A	2979-5		08S			EF2-53.873
FW-C41-3361-1WF25	PT	A	3361-5				11S	EF2-53.873
FW-C41-3361-02W1	PT	A	3361-5		07C			EF2-53.873
FW-C41-3361-1WF22	PT	A	3361-5				12S	EF2-53.873
FW-C41-5058-54S55	PT	A	5374-5			09S		EF2-53.873
FW-C41-5058-65S66	PT	A	5374-5				11S	EF2-53.873
C-F-2								
C5.51 Circumferential Weld								
SW-C11-2113-303-A	MT	R	5372-5				11S	

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
SW-C11-2113-303-A	UT	R	5372-5				11S	
FW-C11-2113-249-B	MT	R	5372-5				12S	
FW-C11-2113-249-B	UT	R	5372-5				12S	
SW-C11-2113-172-A	MT	R	5375-5			09S		
SW-C11-2113-172-A	UT	R	5375-5			09S		
SW-E11-3035-5WE	MT	R	3035-5		07C			
SW-E11-3035-7WB	MT	R	3035-5		09S			
FW-E11-3146-OW1	MT	TE	3146-5				11S	
FW-E11-3146-OW1	UT	TE	3146-5				11S	
SW-E11-3146-6WE	MT	HS	3146-5			10S		
SW-E11-3146-6WE	UT	HS	3146-5			10S		
FW-E11-3146-6W10	MT	MS	3146-5		07C			
FW-E11-3146-6W10	UT	MS	3146-5		07C			
SW-E11-3146-6WH	MT	HS	3146-5		07C			
SW-E11-3146-6WH	UT	HS	3146-5		07C			
FW-E11-3146-5WO	MT	MS	3146-5		08S			
FW-E11-3146-5WO	UT	MS	3146-5		08S			
FW-E11-3151-7W11	MT	MS	3151-5			10S		
FW-E11-3151-7W11	UT	MS	3151-5			10S		
FW-E11-3151-10W0	MT	TE	3151-5				11S	
FW-E11-3151-10W0	UT	TE	3151-5				11S	
FW-E11-3151-3WF2	MT	MS	3151-5			09S		
FW-E11-3151-3WF2	UT	MS	3151-5			09S		
SW-E11-3153-13WD	MT	R	3153-5		08S			
SW-E11-3153-13WD	UT	R	3153-5		08S			
SW-E11-3154-4WC	MT	R	3154-5			09S		
SW-E11-3154-4WC	UT	R	3154-5			09S		
FW-E11-3154-13WO	MT	TE	3154-5			09S		

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
FW-E11-3154-13WO	UT	TE	3154-5			09S		
FW-E11-3154-4WO	MT	TE	3154-5				12S	
FW-E11-3154-4WO	UT	TE	3154-5				12S	
FW-E11-3157-OW6	MT	TE	3157-5		07C			
FW-E11-3157-OW6	UT	TE	3157-5		07C			
SW-E11-3157-1WB	MT	R	3157-5				12S	
SW-E11-3157-1WB	UT	R	3157-5				12S	
FW-E11-3158-1W2	MT	R	3158-5			09S		
FW-E11-3158-1W2	UT	R	3158-5			09S		
SW-E11-3158-4WD	MT	R	3158-5				11S	
SW-E11-3158-4WD	UT	R	3158-5				11S	
FW-E11-3158-10WF4	MT	TE	3158-5		07C			
FW-E11-3158-10WF4	UT	TE	3158-5		07C			
SW-E11-3158-8WG	MT	R	3158-5				11S	
SW-E11-3158-8WG	UT	R	3158-5				11S	
FW-E11-3158-9WF2	MT	R	3158-5			09S		
FW-E11-3158-9WF2	UT	R	3158-5			09S		
FW-E11-3159-OW1	MT	HS	3159-5		08S			
FW-E11-3159-OW1	UT	HS	3159-5		08S			
FW-E11-3160-OW2	VT-1	R	3160-5	RR-A26			11S	Note 21
SW-E11-3161-1WH	MT	R	3161-5				12S	
SW-E11-3161-4WB	VT-1	R	3161-5	RR-A26		10S		Note 21
SW-E11-3161-4WK	VT-1	R	3161-5	RR-A26			12S	Note 21
FW-E11-3161-4WF5	VT-1	R	3161-5	RR-A26			12S	Note 21
FW-E11-3164-4W5	MT	R	3164-5				12S	
FW-E11-3164-4W5	UT	R	3164-5				12S	
SW-E11-3177-6WD	MT	R	3177-5				11S	
SW-E11-3177-6WD	UT	R	3177-5				11S	

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
SW-E11-3177-9WE	MT	R	3177-5			09S		
SW-E11-3177-9WE	UT	R	3177-5			09S		
FW-G41-3669-0W9	MT	MS	3669-5				12S	
SW-G41-3669-3WB	MT	R	3669-5			10S		
FW-E11-4611-1WF2	VT-1	R	4611-5	RR-A26			12S	Note 21
FW-E11-4611-1W2	VT-1	R	4611-5	RR-A26			12S	Note 21
FW-E11-4612-3WF4	VT-1	R	4612-5	RR-A26			12S	Note 21
FW-E11-4612-4WF1	VT-1	R	4612-5	RR-A26			12S	Note 21
FW-E11-4612-4W5	VT-1	R	4612-5	RR-A26		10S		Note 21
FW-E11-4612-7W8	VT-1	R	4612-5	RR-A26		10S		Note 21
FW-E11-4612-8WF3	VT-1	R	4612-5	RR-A26		10S		Note 21
FW-E11-4612-9WO	VT-1	R	4612-5	RR-A26			11S	Note 21
FW-E21-3144-0W4	MT	TE	3144-5			10S		
FW-E21-3144-0W4	UT	TE	3144-5			10S		
FW-E21-3144-OW1	MT	TE	3144-5		07C			
FW-E21-3145-11WO	MT	R	3145-5					
SW-E21-3145-9WD	VT-1	R	3145-5	RR-A26	08S			Note 21
SW-E21-3147-5WJ	MT	R	3147-5		08S			
SW-E21-3147-5WJ	UT	R	3147-5		08S			
SW-E21-3147-15WF	MT	R	3147-5				11S	
SW-E21-3147-15WF	UT	R	3147-5				11S	
SW-E21-3147-15WG	MT	R	3147-5			10S		
SW-E21-3147-15WG	UT	R	3147-5			10S		
FW-E21-3147-16W17	MT	R	3147-5		07C			
FW-E21-3147-16W17	UT	R	3147-5		07C			
SW-E21-3147-19WB	MT	R	3147-5		08S			
SW-E21-3147-19WB	UT	R	3147-5		08S			
FW-E21-3148-7W0	MT	TE	3148-5			09S		

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
FW-E21-3148-7W0	UT	TE	3148-5			09S		
FW-E21-3148-0W8	MT	TE	3148-5				12S	
FW-E21-3148-0W8	UT	TE	3148-5				12S	
SW-E21-3148-5WD	MT	R	3148-5		08S			
SW-E21-3149-4WD	MT	R	3149-5		07C			
SW-E21-3149-4WD	UT	R	3149-5		07C			
SW-E21-3149-6WC	MT	R	3149-5				12S	
SW-E21-3149-6WC	UT	R	3149-5				12S	
SW-E21-3149-6WL	MT	R	3149-5				11S	
SW-E21-3149-6WL	UT	R	3149-5				11S	
SW-E41-3162-1WU	MT	R	3162-5			10S		
SW-E41-3162-1WU	UT	R	3162-5			10S		
FW-E41-3162-1W2	MT	R	3162-5			10S		
FW-E41-3162-1W2	UT	R	3162-5			10S		
FW-E41-3162-9WF0	MT	TE	3162-5				12S	
FW-E41-3162-9WF0	UT	TE	3162-5				12S	
FW-E41-3162-11WF1	VT-1	R	3162-5	RR-A26		09S		Note 21
FW-E41-3162-11WF4	VT-1	R	3162-5	RR-A26		09S		Note 21
FW-E41-3162-11WF5	VT-1	R	3162-5	RR-A26		09S		Note 21
FW-E41-3162-11WO	VT-1	R	3162-5	RR-A26	08S			Note 21
SW-E41-3162-11WC	VT-1	R	3162-5	RR-A26	08S			Note 21
FW-E41-3163-8W0	MT	TE	3163-5				11S	
FW-E41-3163-8W0	UT	TE	3163-5				11S	
FW-E41-3163-7W0	MT	TE	3163-5		07C			
FW-E41-3163-7W0	UT	TE	3163-5		07C			
FW-E41-3167-OW1	MT	TE	3167-5			09S		
FW-E41-3167-OW1	UT	TE	3167-5			09S		
FW-E41-3167-9WO	MT	TE	3167-5				11S	

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
FW-E41-3167-9WO	UT	TE	3167-5				11S	
FW-E41-3167-1W2	MT	R	3167-5				12S	
FW-E41-3167-1W2	UT	R	3167-5				12S	
FW-E41-3169-2W0	MT	R	3167-5			09S		
FW-E41-3169-2W0	UT	R	3169-5			09S		
FW-E41-3172-0W1	MT	TE	3172-5			10S		
FW-E41-3172-0W1	UT	TE	3172-5			10S		
FW-E41-3172-0W8	MT	R	3172-5				12S	
FW-E41-3172-0W8	UT	R	3172-5				12S	
SW-E41-5373-GW3	MT	R	5373-5			09S		
SW-E41-5373-GW3	MT	R	5373-5			09S		
SW-N30-3258-1WJ	MT	MS	3258-5			10S		
SW-N30-3258-1WJ	UT	MS	3258-5			10S		
SW-N30-3258-1WJLU	UT		3258-5			10S		
SW-N30-3258-7WK	MT	MS	3258-5			09S		
SW-N30-3258-7WK	UT	MS	3258-5			09S		
SW-N30-3258-7WKLU	MT		3258-5			09S		
SW-N30-3258-7WKLU	UT		3258-5			09S		
SW-N30-3258-13WJ	MT	MS	3258-5				12S	
SW-N30-3258-13WJ	UT	MS	3258-5				12S	
SW-N30-3258-13WJLU	MT		3258-5				12S	
SW-N30-3258-13WJLU	UT		3258-5				12S	
SW-N30-3258-19WJ	MT	MS	3258-5		07C			
SW-N30-3258-19WJ	UT	MS	3258-5		07C			
SW-N30-3258-19WJLU	MT		3258-5		07C			
SW-N30-3258-19WJLU	UT		3258-5		07C			
FW-N30-3259-4WO	PT	TE	3258-5		08S			
FW-N30-3259-4WO	UT	TE	3258-5		08S			

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Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-F-2								
C5.51 Circumferential Weld								
FW-T48-04-2095-11W12	MT	R	2095-5		07C			
FW-T48-04-2095-7W8	MT	R	2095-5			10S		
SW-T48-04-2095-5WD	MT	R	2095-5				11S	
FW-T48-04-2095-19WO	MT	MS	2095-5	RR-A26	08S			Note 21
SW-T48-04-2095-WSW3	MT	R	2095-5				11S	
SW-T48-04-2097-18WC	MT	R	2097-5			10S		
FW-T48-04-2097-8W9	MT	R	2097-5		07C			
SW-T48-04-2097-21WB	VT-1	R	2097-5	RR-A26	07C			Note 21
FW-T48-04-2097-20W21	MT	MS	2097-5	RR-A26	07C			Note 21
SW-T48-04-2097-25WF	VT-1	R	2097-5	RR-A26	07C			Note 21
SW-T48-04-2097-20WD	MT	MS	3258-5	RR-A26			11S	Note 21
C-F-2								
C5.52 Longituinal Weld								
SW-E41-3162-11WOLD	VT-1	R	3162-5	RR-A26	08S			Note 21
SW-N30-3258-1WJLU	MT		3258-5			10S		
C-F-2								
C5.81 Branch Connection Weld								
FW-E11-3146-15FW01	MT	MS	3146-5				12S	
SW-E11-3146-5WC	MT	MS	3146-5		07C			
SW-E11-3146-5WM	MT	HS	3146-5			10S		
SW-E11-3146-7WC	MT	HS	3146-5				12S	
SW-E11-3151-8WD	MT	HS	3151-5		08S			
FW-E11-3157-4WF01	MT	R	3157-5				12S	
SW-E11-3160-1WD	MT	HS	3160-5			09S		
SW-E21-3144-5WE	MT	R	3144-5				11S	
SW-N30-3258-13WB	MT	R	3258-5		08S			
C-H								
C.7X Class 2 Pressure Retaining Boundary								

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-H								
C.7X Class 2 Pressure Retaining Boundary								
E11 Residual Heat Removal System	VT-2	Class 2 Boundary	5813-1 5813-2 5813-3		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
E21 Core Spray System	VT-2	Class 2 Boundary	5814		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
E41 High Pressure Coolant Injection	VT-2	Class 2 Boundary	5815		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
G41 Fuel Pool Cooling & Cleanup System	VT-2	Class 2 Boundary	5819		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
G51 Torus Water Management System	VT-2	Class 2 Boundary	5820		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
B21 Main Steam	VT-2	Class 2 Boundary	5808-1 5808-2		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
N30 Main & Reheat Steam System	VT-2	Class 2 Boundary	5822		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
P34 Post Accident Sampling	VT-2	Class 2 Boundary	5824		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
T48-04 Containment Atmosphere, Control System	VT-2	Class 2 Boundary	5830-1 5830-2		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
T50 Primary Containment Monitoring System	VT-2	Class 2 Boundary	5831		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
C7.X Class 2 Pressure Retaining Boundary								
C11-Control Rod Drive System	VT-2	Class 2 Boundary	5810-1		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
C41 Standby liquid Control System	VT-2	Class 2 Boundary	5811		08S	10S		X includes items C7.10, C7.30, C7.50 and C7.70. Perform each Period
C11-Control Rod Drive System	VT-2	Class 2 Boundary	5810-1				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
C41 Standby liquid Control System	VT-2	Class 2 Boundary	5811				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
C-H								
C7.X Class 2 Pressure Retaining Boundary								
E11 Residual Heat Removal System	VT-2	Class 2 Boundary	5813-1 5813-2 5813-3				12S	X includes items C7.20, C7.40, C7.60 and C7.80.. Perform each Interval; Code Case N498-1
E21 Core Spray System	VT-2	Class 2 Boundary	5814				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
E41 High Pressure Coolant Injection	VT-2	Class 2 Boundary	5815	RR-A19			12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
G41 Fuel Pool Cooling & Cleanup System	VT-2	Class 2 Boundary	5819				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
G51 Torus Water Management System	VT-2	Class 2 Boundary	5820				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
B21 Main Steam	VT-2	Class 2 Boundary	5808-1 5808-2				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
N30 Main & Reheat Steam System	VT-2	Class 2 Boundary	5822				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
P34 Post Accident Sampling	VT-2	Class 2 Boundary	5824				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
T48-04 Containment Atmosphere, Control System	VT-2	Class 2 Boundary	5830-1 5830-2				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
T50 Primary Containment Monitoring System	VT-2	Class 2 Boundary	5831				12S	X includes items C7.20, C7.40, C7.60 and C7.80. Perform each Interval; Code Case N498-1
D-B								
D2.10 Pressure Retaining Components								
E11 Residual Heat RemovalSystem Functional Boundary	Visual, VT-2	System Function	Class 3 Systems		08S	10S	12S	Note 15 Perform Each Period; Code Case 498-1
P42 Reactor Building Closed Cooling Water	Visual, VT-2	System Function	Class 3 Systems		08S	10S	12S	Note 15 Perform Each Period; Code Case 498-1
P44 Emergency Equipment Cooling Water	Visual, VT-2	System Function	Class 3 Systems		08S	10S	12S	Note 15 Perform Each Period; Code Case 498-1
P45 Emergency Equipment Service Water	Visual, VT-2	System Function	Class 3 Systems		08S	10S	12S	Note 15 Perform Each Period; Code Case 498-1

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
D-B								
D2.10 Pressure Retaining Components								
R30 Emergency Diesel Generator & Service Water	Visual, VT-2	System Function	Class 3 Systems		08S	10S	12S	Note 15 Perform Each Period; Code Case 498-1
D-B								
D2.20 Intregal Attachment (Supports and Restraints)								
P45-3360-G11	VT-3	Integral Attachment Weld	3360-2				11S	
D-B								
D2.40 Intregal Attachment								
E11-3184-G08	VT-3	Integral Attachment Weld	3184-2			09S		
P44-3048-G10	VT-3	Integral Attachment Weld	3048-2		07C			
N/A								
N/A ANSI B31.1 Augmented								
FW-N21-3109-18W0	UT	NUREG 0313	3109-1		08S			Note 2, Category D
SW-N21-01-B002-AWSE	UT	NUREG 0313	3109-1		08S			Note 2, Category D
FW-N21-3109-29WO	UT	NUREG 0313	3109-1				11S	Note 2, Category D
SW-N21-01-B001-AWSE	UT	NUREG 0313	3109-1				11S	Note 2, Category D
FW-N20-3107-0W1	UT	NUREG 0313	3107-1			10S		Note 2, Category D
SW-N20-03-B013-BWSE	UT	NUREG 0313	3107-1			10S		Note 2, Category D
FW-N20-3107-0W17	UT	NUREG 0313	3107-1		07C			Note 2, Category D
SW-N20-03-B014-BWSE	UT	NUREG 0313	3107-1		07C			Note 2, Category D
FW-N20-3105-24W0	UT	NUREG 0313	3105-1			10S		Note 2, Category D
SW-N20-03-B013-AWSE	UT	NUREG 0313	3105-1			10S		Note 2, Category D
FW-N20-3105-16W0	UT	NUREG 0313	3105-1		07C			Note 2, Category D
SW-N20-03-B014-AWSE	UT	NUREG 0313	3105-1		07C			Note 2, Category D
FW-N20-3105-0W23	UT	NUREG 0313	3105-1			09S		Note 2, Category D
SW-N20-03-B011-BWSE	UT	NUREG 0313	3105-1			09S		Note 2, Category D
FW-N20-3105-0W15	UT	NUREG 0313	3105-1				12S	Note 2, Category D

FERMI 2 NUCLEAR POWER PLANT

Category / Item Identification	Exams Required	Selection Basis	Isometric	Relief Request	Inspection Period 1	2	3	Remarks
N/A								
N/A ANSI B31.1 Augmented								
SW-N20-03-B012-BWSE	UT	NUREG 0313	3105-1				12S	Note 2, Category D
FW-N20-3105-22WO	UT	NUREG 0313	3105-1			09S		Note 2, Category D
SW-N20-03-B011-AWSE	UT	NUREG 0313	3105-1			09S		Note 2, Category D
FW-N20-3105-14WO	UT	NUREG 0313	3105-1				12S	Note 2, Category D
SW-N20-03-B012-AWSE	UT	NUREG 0313	3105-1				12S	Note 2, Category D
FW-N20-3105-OW21	UT	NUREG 0313	3105-1				11S	Note 2, Category D
SW-N20-03-B009-BWSE	UT	NUREG 0313	3105-1				11S	Note 2, Category D
FW-N20-3105-0W13	UT	NUREG 0313	3105-1		08S			Note 2, Category D
SW-N20-03-B010-BWSE	UT	NUREG 0313	3105-1		08S			Note 2, Category D

INSERVICE INSPECTION NDE PROGRAM

TABLE B

FERMI 2 NUCLEAR POWER PLANT

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
1	B11-5360-Skirt	VT-3	A		08S			RPV Skirt & Bolting
1	B11-5360-STAB-A	VT-3	G		08S			RPV Stabilizer Supports
1	B11-5360-STAB-B	VT-3	G		08S			RPV Stabilizer Supports
1	B11-5360-STAB-C	VT-3	G			10S		RPV Stabilizer Supports
1	B11-5360-STAB-D	VT-3	G			09S		RPV Stabilizer Supports
1	B11-5360-STAB-E	VT-3	G				11S	RPV Stabilizer Supports
1	B11-5360-STAB-F	VT-3	G				12S	RPV Stabilizer Supports
1	B11-5360-STAB-G	VT-3	G				11S	RPV Stabilizer Supports
1	B11-5360-STAB-H	VT-3	G		08S			RPV Stabilizer Supports
1	B21-2192-G02	VT-3	SP				12S	
1	B21-2192-G13	VT-3	G				12S	
1	B21-2297-G14	VT-3	G			10S		
1	B21-5352-HA1	VT-3	SP		07C			
1	B21-5353-HB2	VT-3	SP		08S			
1	B21-5354-AC1	VT-3	A			10S		
1	B21-5354-HC3	VT-3	SP		08S			
1	B21-5355-GD1	VT-3	G		07C			
1	B31-5356-HA4	VT-3	SP				12S	
1	B31-5357-HA1	VT-3	SP			10S		
1	B31-5357-HA7	VT-3	C		08S			
1	B31-5358-HB3	VT-3	SP		07C			
1	B31-5359-HB6	VT-3	C			10S		
1	B31-5359-HB7	VT-3	C			09S		
1	E11-2298-G01	VT-3	SP				11S	
1	E11-2299-G03	VT-3	SP				11S	
1	E11-2327-G03	VT-3	R			09S		
1	E21-3052-G02	VT-3	SP			09S		
1	E21-3053-G01	VT-3	SP		08S			
1	E21-3053-G03	VT-3	R				12S	

FERMI 2 NUCLEAR POWER PLANT

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
1	E41-2297-G05	VT-3	SP				12S	
1	E51-2192-G11	VT-3	SP		07C			
1	G33-3096-G01	VT-3	SP			10S		
1	G33-3096-G04	VT-3	SP		07C			
1	G33-3096-G10	VT-3	SP				11S	
1	G33-3096-G32	VT-3	G				11S	
1	N21-3536-G02	VT-3	SP			09S		
1	N21-3536-G03	VT-3	SP				12S	
1	N21-3536-G07	VT-3	SP				11S	
1	N21-3537-G04	VT-3	SP			10S		
1	N21-3537-G06	VT-3	SP			10S		
2	B21-2586-G02	VT-3	R				12S	Augmented exam - See ISI 99-056
2	B21-2587-G06	VT-3	SP				11S	Augmented exam - See ISI 99-056
2	B21-2590-G12	VT-3	SP			10S		Augmented exam - See ISI 99-056
2	B21-2592-G04	VT-3	R		07C			Augmented exam - See ISI 99-056
2	B21-2594-G06	VT-3	SP					Augmented exam - See ISI 99-056
2	B21-4095-G06	VT-3	R		07C			Augmented exam - See ISI 99-056
2	C11-2113-G262	VT-3	G				11S	
2	C11-2113-G266	VT-3	R			09S		
2	C11-2113-G274	VT-3	G			09S		
2	C11-2113-G294	VT-3	G		07C			
2	E11-3035-G02	VT-3	R			10S		
2	E11-3035-G05	VT-3	SP			09S		
2	E11-3035-G19	VT-3	G			10S		
2	E11-3035-G24	VT-3	R				12S	
2	E11-3146-G30	VT-3	G				12S	
2	E11-3146-G32	VT-3	SP			09S		
2	E11-3146-G36	VT-3	R			10S		
2	E11-3151-G05	VT-3	SP				11S	

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
2	E11-3151-G25A	VT-3	R		07C			
2	E11-3151-G29	VT-3	R			09S		
2	E11-3153-G10	VT-3	G		08S			
2	E11-3153-G12	VT-3	SP			09S		
2	E11-3153-G16	VT-3	R				12S	
2	E11-3154-G05	VT-3	SP			10S		
2	E11-3154-G09	VT-3	R		08S			
2	E11-3154-G22	VT-3	R				11S	
2	E11-3154-G28	VT-3	R			09S		
2	E11-3157-G04	VT-3	SP		07C			
2	E11-3157-G24	VT-3	R			09S		
2	E11-3157-G29	VT-3	R			10S		
2	E11-3158-G33	VT-3	R		08S			
2	E11-3158-G46	VT-3	R			09S		
2	E11-3158-G50	VT-3	SP				12S	
2	E11-3159-G06	VT-3	R		07C			
2	E11-3159-G09	VT-3	R				11S	
2	E11-3160-G01	VT-3	SP		08S			
2	E11-3160-G19	VT-3	G				12S	
2	E11-3161-G11	VT-3	R				12S	
2	E11-3161-G15	VT-3	R		08S			
2	E11-3164-G11	VT-3	G		07C			
2	E11-3164-G17A	VT-3	R				12S	
2	E11-3164-G21	VT-3	SP		08S			
2	E11-3177-G18	VT-3	R			10S		
2	E11-3177-G19	VT-3	R		08S			
2	E11-3177-G30	VT-3	G			10S		
2	E11-4611-G04	VT-3	SP				12S	
2	E11-4611-G09	VT-3	R				12S	

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
2	E11-4611-G15	VT-3	R		08S			
2	E11-4612-G10	VT-3	R				11S	
2	E11-4612-G12	VT-3	G		08S			
2	E11-5370-G01	VT-3	G				11S	Div 2 RHR HTX Supports
2	E11-5370-G02	VT-3	G		08S		12S	Div 2 RHR HTX Supports
2	E11-5370-G03	VT-3	G			09S		Div 2 RHR HTX Supports
2	E11-5370-G04	VT-3	G				11S	Div 2 RHR HTX Supports
2	E11-5370-G05	VT-3	A		08S			Div 2 RHR HTX Supports
2	E21-3144-G03	VT-3	SP		07C			
2	E21-3144-G06	VT-3	A				11S	
2	E21-3144-G11	VT-3	R			10S		
2	E21-3144-G16	VT-3	R		08S			
2	E21-3144-G20	VT-3	R				11S	
2	E21-3145-G05	VT-3	SP				12S	
2	E21-3147-G13	VT-3	R				12S	
2	E21-3147-G20	VT-3	G			09S		
2	E21-3147-G35	VT-3	R		07C			
2	E21-3147-G39	VT-3	SP			10S		
2	E21-3148-G29	VT-3	R			09S		
2	E21-3148-G37	VT-3	SP			10S		
2	E21-3148-G48	VT-3	R				12S	
2	E21-3149-G05	VT-3	SP				11S	
2	E21-3149-G06	VT-3	R				11S	
2	E21-3150-G02	VT-3	R		07C			
2	E41-3162-G01	VT-3	SP			09S		
2	E41-3162-G03	VT-3	R			09S		
2	E41-3162-G13	VT-3	G				12S	
2	E41-3163-G01	VT-3	SP		08S			
2	E41-3163-G12	VT-3	R				12S	

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
2	E41-3167-G01	VT-3	R		07C			
2	E41-3167-G13	VT-3	SP			10S		
2	E41-3167-G15	VT-3	R				12S	
2	E41-3169-G100	VT-3	G		08S			
2	E41-3169-G13	VT-3	SP			09S		
2	E41-3169-G17	VT-3	R			10S		
2	E41-3172-G01	VT-3	SP		07C			
2	E41-3172-G14	VT-3	R				11S	
2	E41-3172-G18	VT-3	G				11S	
2	N30-3258-G02	VT-3	C		07C			
2	N30-3258-G07	VT-3	C		07C			
2	N30-3258-G17(A-D)	VT-3	R			10S	12S	
2	N30-3259-G02	VT-3	C		07C			
2	N30-3259-G25	VT-3	R			09S		
2	N30-3259-G73	VT-3	SP				12S	
2	P11-3566-G10	VT-3	SP		07C			
2	T48-2095-G01	VT-3	SP		08S			
2	T48-2095-G07B	VT-3	R				11S	
2	T48-2095-G10A	VT-3	R			10S		
2	T48-2095-G19	VT-3	G				11S	
2	T48-2095-G22	VT-3	R			09S		
2	T48-2095-G24A	VT-3	R			10S		
2	T48-2095-G25	VT-3	R		07C			
2	T48-2095-G26A	VT-3	R				12S	
2	T48-2097-G07	VT-3	R			10S		
2	T48-2097-G13B	VT-3	R		07C			
2	T48-2097-G17	VT-3	R				11S	
2	T48-2097-G19	VT-3	G				11S	
2	T48-2097-G21	VT-3	R		07C			

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
2	T48-2097-G22A	VT-3	R		08S			
2	T48-2097-G25A	VT-3	R		08S			
2	T48-2097-G34	VT-3	G			09S		
3	E11-2179-G20	VT-3	R		07C			
3	E11-2180-G14	VT-3	G				12S	
3	E11-2183-G07	VT-3	G			10S		
3	E11-2183-G15	VT-3	R		08S			
3	E11-2184-G12	VT-3	R			10S		
3	E11-2184-G22	VT-3	G		08S			
3	E11-3184-G04	VT-3	G				12S	
3	E11-3184-G08	VT-3	R			09S		
3	E11-3184-G10	VT-3	R				11S	
3	E11-3184-G18	VT-3	R		07C			
3	E11-3185-G40	VT-3	R			09S		
3	E11-3185-G53	VT-3	SP			09S		
3	E11-3185-G58	VT-3	SP				12S	
3	E11-3185-G60	VT-3	G			09S		
3	P42-3340-G06	VT-3	SP			09S		
3	P44-3047-G28	VT-3	G				11S	
3	P44-3048-G10	VT-3	SP		07C			
3	P44-3084-G10	VT-3	R		07C			
3	P44-3084-G15	VT-3	R			10S		
3	P44-3189-G38	VT-3	SP		08S			
3	P44-3189-G42	VT-3	R			10S		
3	P44-3189-G47	VT-3	R		07C			
3	P44-3336-G01	VT-3	A			09S		
3	P44-3336-G15	VT-3	R				11S	
3	P44-3337-G13	VT-3	R				12S	
3	P44-3337-G16	VT-3	R			10S		

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
3	P44-3345-G02	VT-3	G		08S			
3	P44-3345-G08	VT-3	R			09S		
3	P44-3346-G02	VT-3	G				11S	
3	P44-3346-G12	VT-3	R				12S	
3	P44-3347-G10	VT-3	R		07C			
3	P44-3347-G14	VT-3	R				12S	
3	P44-3348-G12	VT-3	A		07C			
3	P44-3348-G29B	VT-3	R				11S	
3	P44-3351-G03	VT-3	R				12S	
3	P44-3351-G28	VT-3	R		08S			
3	P44-3351-G41	VT-3	SP				12S	
3	P44-3368-G09	VT-3	G			10S		
3	P44-3368-G31	VT-3	R				11S	
3	P44-3368-G38	VT-3	R				12S	
3	P44-3558-G14	VT-3	R				12S	
3	P44-3559-G12	VT-3	R			10S		
3	P44-4624-G01	VT-3	G				11S	
3	P44-4624-G03	VT-3	G				11S	
3	P44-4624-G12	VT-3	R				12S	
3	P44-4624-G13	VT-3	R			09S		
3	P44-4628-G02	VT-3	R			10S		
3	P44-4629-G05	VT-3	G			09S		
3	P44-4629-G08	VT-3	R		08S			
3	P44-EECW Head Tank Sprts (Div. 2)	VT-3			08S			
3	P44-EECW Htr Sprts (Div. 1)	VT-3					12S	
3	P45-2178-G09	VT-3	R			09S		
3	P45-2204-G11	VT-3	R				11S	
3	P45-3352-G02	VT-3	G				12S	
3	P45-3352-G06	VT-3	R		07C			

Code Class	Identification Number	Exams Method	Component Support Type	Relief Request	Inspection Period 1	2	3	Remarks
3	P45-3353-G05	VT-3	R			10S		
3	P45-3353-G07	VT-3	SP				11S	
3	P45-3353-G26	VT-3	R		08S			
3	P45-3359-G03	VT-3	G		08S			
3	P45-3359-G11	VT-3	SP				11S	
3	P45-3360-G04	VT-3	R			10S		
3	P45-3360-G07	VT-3	G			09S		
3	P45-4626-G03	VT-3	G				12S	
3	P45-4626-G08	VT-3	A				11S	
3	P45-4627-G06	VT-3	A				12S	
3	P45-4627-G12	VT-3	R				11S	
3	P45-4630-G04	VT-3	R			09S		
3	P45-4631-G04	VT-3	R			09S		
3	P45-4632-G08	VT-3	R			10S		
3	P45-4632-G10	VT-3	G				11S	
3	R30-2176-G17	VT-3	G		07C			
3	R30-2176-G28	VT-3	A			10S		
3	R30-2176-G31	VT-3	G		08S			
3	R30-2177-G04	VT-3	R			09S		
3	R30-2177-G27	VT-3	R				11S	
3	R30-2177-G31	VT-3	G		08S			
3	R30-2181-G04	VT-3	R				11S	
3	R30-2181-G15	VT-3	R			10S		
3	R30-2182-G02	VT-3	G			09S		
3	R30-2182-G14	VT-3	R		07C			

INSERVICE INSPECTION NDE PROGRAM

TABLE C

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
B21-2174-G25B	MECH	(2) PSA 1/2	RB1	585	X	X
B21-2187-G81	MECH	(1) PSA 1/4	DW	675	X	X
B21-2297-G08	MECH	(1) PSA 10	DW	587	X	X
B21-2297-G09	MECH	(1) PSA 3	DW	587	X	X
B21-2297-G11	MECH	(1) PSA 10	DW	600	X	X
B21-2586-G06	MECH	(1) PSA 10	DW	603	X	X
B21-2586-G08	MECH	(1) PSA 35	DW	579	X	X
B21-2587-G05	MECH	(1) PSA 35	DW	590	X	X
B21-2588-G06	MECH	(1) PSA 35	DW	576	X	X
B21-2589-G02	MECH	(1) PSA 10	DW	587	X	X
B21-2589-G03	MECH	(1) PSA 35	DW	586	X	X
B21-2589-G04	MECH	(1) PSA 35	DW	590	X	X
B21-2590-G04	MECH	(1) PSA 35	DW	589	X	X
B21-2590-G07	MECH	(1) PSA 10	DW	583	X	X
B21-2592-G02	MECH	(1) PSA 35	DW	590	X	X
B21-2592-G10	MECH	(1) PSA 10	DW	604	X	X
B21-2593-G04	MECH	(1) PSA 35	DW	590	X	X
B21-2593-G07	MECH	(1) PSA 35	DW	601	X	X
B21-2593-G13	MECH	(1) PSA 10	DW	581	X	X
B21-2594-G10	MECH	(1) PSA 35	DW	601	X	X
B21-2595-G07	MECH	(1) PSA 10	DW	583	X	X
B21-2595-G13	MECH	(1) PSA 35	DW	589	X	X
B21-2596-G11	MECH	(1) PSA 35	DW	599	X	X
B21-4093-G06	MECH	(1) PSA 10	DW	578	X	X
B21-4093-G11	MECH	(1) PSA 35	DW	598	X	X
B21-4093-G12	MECH	(1) PSA 10	DW	598	X	X
B21-4093-G13	MECH	(1) PSA 10	DW	608	X	X
B21-4094-G05	MECH	(1) PSA 10	DW	580	X	X
B21-4094-G09	MECH	(1) PSA 35	DW	590	X	X
B21-4095-G05	MECH	(1) PSA 10	DW	595	X	X
B21-4095-G08	MECH	(1) PSA 10	DW	596	X	X
B21-4096-G08	MECH	(1) PSA 10	DW	604	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
B21-4096-G11	MECH	(1) PSA 10	DW	610	X	X
B21-E213-SSA1	MECH	(1) PSA 35	DW	613	X	X
B21-E213-SSA3	MECH	(1) PSA 35	DW	609	X	X
B21-E213-SSB1	MECH	(1) PSA 10	DW	614	X	X
B21-E213-SSB2	MECH	(1) PSA 10	DW	615	X	X
B21-E213-SSB3	MECH	(1) PSA 10	DW	609	X	X
B21-E213-SSB5	MECH	(1) PSA 35	DW	609	X	X
B21-E213-SSB6	MECH	(1) PSA 35	DW	609	X	X
B21-E213-SSC1	MECH	(1) PSA 10	DW	612	X	X
B21-E213-SSC2	MECH	(1) PSA 10	DW	615	X	X
B21-E213-SSC3	MECH	(1) PSA 10	DW	609	X	X
B21-E213-SSC5	MECH	(1) PSA 35	DW	609	X	X
B21-E213-SSC6	MECH	(1) PSA 35	DW	609	X	X
B21-E213-SSD1	MECH	(1) PSA 35	DW	613	X	X
B21-E213-SSD2	MECH	(1) PSA 35	DW	620	X	X
B21-E213-SSD3	MECH	(1) PSA 35	DW	609	X	X
B31-E215-SSA1	MECH	(1) PSA 35	DW	579	X	X
B31-E215-SSA4	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSA5	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSA6	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSA7	MECH	(1) PSA 35	DW	590	X	X
B31-E215-SSA8	MECH	(1) PSA 35	DW	591	X	X
B31-E215-SSB1	MECH	(1) PSA 35	DW	579	X	X
B31-E215-SSB10	MECH	(1) PSA 35	DW	583	X	X
B31-E215-SSB4	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSB5	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSB6	MECH	(1) PSA 35	DW	592	X	X
B31-E215-SSB7	MECH	(1) PSA 35	DW	590	X	X
B31-E215-SSB8	MECH	(1) PSA 35	DW	591	X	X
B31-E215-SSB9	MECH	(1) PSA 35	DW	582	X	X
C41-2340-G08	MECH	(1) PSA 1/2	DW	610	X	X
C41-2340-G11	MECH	(1) PSA 1/2	DW	608	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
C41-2340-G12	MECH	(1) PSA 1/2	DW	608	X	X
C41-2340-G15	MECH	(1) PSA 1/2	DW	624	X	X
C41-2340-G16	MECH	(2) PSA 1/2	DW	620	X	X
C41-2340-G17	MECH	(1) PSA 1/2	DW	619	X	X
C41-2979-G01	MECH	(2) PSA 1/4	RB2	632	X	
E11-2299-G19	MECH	(1) PSA 35	DW	602	X	X
E11-2299-G20	MECH	(1) PSA 35	DW	602	X	X
E11-3035-G25	HYD	(1) 1 1/2 X 5	RB	578		X
E11-3146-G08	MECH	(1) PSA 35	RB	575		X
E11-3146-G10	HYD	(1) 5 X 5	RB	575		X
E11-3146-G16	HYD	(1) 5 X 5	RB	575		X
E11-3146-G17	HYD	(2) 5 X 5	RB1	588		X
E11-3146-G21	MECH	(1) PSA 10	RB1	602		
E11-3146-G22	MECH	(1) PSA 10	RB1	598		
E11-3146-G23	MECH	(1) PSA 10	RB2	614		
E11-3146-G25	MECH	(1) PSA 3	RB2	616		
E11-3146-G26	MECH	(1) PSA 35	RB2	617		
E11-3146-G29	MECH	(1) PSA 3	RB2	613		
E11-3146-G33	MECH	(1) PSA 35	RB	578		X
E11-3146-G34	MECH	(1) PSA 10	RB2	620		
E11-3146-G35	MECH	(2) PSA 10	RB	567		X
E11-3146-G37	MECH	(2) PSA 10	RB	578		X
E11-3151-G07	HYD	(1) 4 X 5	RB	575		X
E11-3151-G08	HYD	(1) 4 X 5	RB	575		X
E11-3151-G10	MECH	(2) PSA 10	RB1	590		
E11-3151-G13	HYD	(1) 2 1/2 X 5	RB1	601		
E11-3151-G15	HYD	(1) 2 1/2 X 5	RB2	620		
E11-3151-G16	MECH	(1) PSA 10	RB2	620		
E11-3151-G17	MECH	(1) PSA 3	RB2	623		
E11-3151-G18	MECH	(1) PSA 10	RB2	623		
E11-3151-G23	MECH	(2) PSA 35	RB	578		X
E11-3151-G26	HYD	(1) 1 1/2 X 5	RB2	615		

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E11-3151-G31	MECH	(1) PSA 10	RB1	606		
E11-3151-G32	HYD	(1) 4 X 10	RB1	606		
E11-3151-G33	MECH	(1) PSA 10	RB	570		X
E11-3151-G35	MECH	(1) PSA 10	RB	579		X
E11-3152-G17	HYD	(2) 2 1/2 X 5	RB	572		X
E11-3152-G18	HYD	(1) 2 X 5	RB	550		X
E11-3152-G19	HYD	(1) 2 X 5	RB	549		X
E11-3152-G20	HYD	(1) 4 X 5	RB	549		X
E11-3152-G21	HYD	(1) 4 X 5	RB	548		X
E11-3152-G22	MECH	(1) PSA 10	RB	547		X
E11-3152-G24	HYD	(1) 2 1/2 X 5	RB	548		X
E11-3152-G25	HYD	(1) 4 X 5	RB	548		X
E11-3152-G29	HYD	(2) 4 X 5	RB	572		X
E11-3152-G30	HYD	(1) 4 X 5	RB	572		X
E11-3152-G31	MECH	(2) PSA 3	RB	572		X
E11-3152-G32	MECH	(1) PSA 10	RB	572		X
E11-3152-G33	MECH	(1) PSA 3	RB	572		X
E11-3152-G34	MECH	(1) PSA 3	RB	572		X
E11-3153-G13	HYD	(1) 2 1/2 X 5	RB	542		X
E11-3153-G15	MECH	(2) PSA 10	RB	541		X
E11-3154-G11	HYD	(1) 4 X 5	RB	541		X
E11-3154-G12	MECH	(1) PSA 10	RB	542		X
E11-3154-G13	MECH	(1) PSA 10	RB	541		X
E11-3154-G14	MECH	(1) PSA 10	RB	543		X
E11-3154-G16	HYD	(1) 2 X 5	RB	541		X
E11-3154-G17	MECH	(1) PSA 10	RB	541		X
E11-3154-G19	MECH	(1) PSA 10	RB	541		X
E11-3154-G21	MECH	(2) PSA 3	RB	541		X
E11-3154-G23	MECH	(1) PSA 10	RB	542		X
E11-3157-G08	HYD	(1) 2 1/2 X 5	RB	575		X
E11-3157-G10	HYD	(1) 4 X 5	RB	568		X
E11-3157-G11	HYD	(1) 4 X 5	RB	567		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E11-3157-G15	HYD	(1) 4 X 5	RB	570		X
E11-3157-G16	MECH	(1) PSA 35	RB	566		
E11-3157-G17	MECH	(1) PSA 35	RB	575		X
E11-3157-G20	HYD	(1) 4 X 5	RB	561		X
E11-3157-G22	HYD	(1) 4 X 5	RB	558		
E11-3158-G07	HYD	(1) 4 X 5	RB2	613		
E11-3158-G08	HYD	(1) 4 X 5	RB2	614		
E11-3158-G10	HYD	(1) 2 1/2 X 5	RB2	622		
E11-3158-G12	HYD	(1) 4 X 5	RB2	631		
E11-3158-G15	HYD	(1) 2 1/2 X 5	RB2	631		
E11-3158-G16	HYD	(1) 4 X 10	RB2	623		
E11-3158-G17	HYD	(1) 4 X 5	RB2	622		
E11-3158-G19	HYD	(1) 4 X 5	RB1	610		
E11-3158-G20	HYD	(1) 4 X 5	RB1	609		
E11-3158-G22	HYD	(1) 2 1/2 X 5	RB1	584		
E11-3158-G24	MECH	(1) PSA 10	RB1	591		
E11-3158-G29	HYD	(1) 4 X 5	RB2	631		
E11-3158-G30	HYD	(1) 2 1/2 X 5	RB2	631		
E11-3158-G31	HYD	(1) 2 X 5	RB2	631		
E11-3158-G34	HYD	(1) 2 1/2 X 5	RB2	631		
E11-3159-G02	HYD	(1) 2 X 5	RB1	594		
E11-3159-G03	HYD	(1) 2 1/2 X 5	RB1	594		
E11-3159-G05	HYD	(1) 1 1/2 X 5	RB1	594		
E11-3159-G07	HYD	(1) 1 1/2 X 5	RB1	594		
E11-3159-G11	HYD	(1) 2 X 5	RB1	594		
E11-3160-G09	MECH	(1) PSA 3	RB	575		X
E11-3160-G10	HYD	(1) 2 1/2 X 5	RB	578		X
E11-3160-G11	HYD	(1) 1 1/2 X 5	RB	573		X
E11-3160-G13	HYD	(1) 2 X 5	RB	578		X
E11-3160-G15	HYD	(1) 2X10 / (1) 2X5	RB	575		X
E11-3160-G16	MECH	(1) PSA 3	RB	573		X
E11-3160-G17	HYD	(1) 4 X 5	RB	573		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E11-3160-G18	HYD	(1) 2 1/2 X 5	RB	578		X
E11-3161-G09	HYD	(1) 1 1/2 X 10	RB	572		X
E11-3161-G10	HYD	(1) 2 X 5	RB	575		X
E11-3161-G12	MECH	(1) PSA 3	RB	578		X
E11-3161-G13	HYD	(1) 2 1/2 X 5	RB	576		X
E11-3161-G14	MECH	(1) PSA 10	RB	579		X
E11-3161-G16	HYD	(1) 2 X 5	RB	572		X
E11-3161-G17	MECH	(1) PSA 3	RB	572		X
E11-3161-G18	MECH	(1) PSA 3	RB	573		X
E11-3164-G14	HYD	(1) 2 X 10	RB2	625		
E11-3164-G18	HYD	(1) 2 X 5	RB1	589		
E11-3164-G19	MECH	(1) PSA 3	RB1	588		
E11-3164-G22	MECH	(1) PSA 10	RB2	631		
E11-3164-G23	HYD	(1) 1 1/2 X 5	RB2	622		
E11-3164-G24	HYD	(1) 2 X 5	RB2	622		
E11-3164-G26	HYD	(1) 2 X 5	RB2	631		
E11-3164-G27	MECH	(1) PSA 3	RB1	595		
E11-3177-G09	HYD	(1) 4 X 5	RB	566		X
E11-3177-G10	HYD	(1) 4 X 5	RB	568		X
E11-3177-G20	HYD	(1) 4 X 5	RB	561		X
E11-3177-G21	HYD	(1) 2 X 5	RB	575		X
E11-3177-G23	HYD	(1) 4 X 5	RB	560		X
E11-3177-G25	HYD	(1) 1 1/2 X 5	RB	552		
E11-3177-G27	HYD	(1) 1 1/2 X 5	RB	575		X
E11-3177-G31	HYD	(1) 4 X 5	RB	561		X
E11-3177-G32	HYD	(1) 2 X 5	RB	558		
E11-3178-G13	MECH	(1) PSA 3	RB	578		X
E11-3179-G05	MECH	(1) PSA 1/2	RB	546		X
E11-3184-G07	HYD	(2) 2 X 5	RB2	617		
E11-3184-G15	HYD	(2) 2 X 5	RB2	617		
E11-3184-G24	MECH	(1) PSA 3	RB	575		
E11-3184-G25	HYD	(1) 4 X 5	RB	575		

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E11-3184-G31	HYD	(1) 1 1/2 X 5	RB1	606		
E11-3184-G38	MECH	(1) PSA 35	RB2	615		
E11-3184-G39	MECH	(1) PSA 3	RB2	617		
E11-3184-G41	MECH	(1) PSA 10	RB1	597		
E11-3184-G45	MECH	(1) PSA 3	RB1	602		
E11-3185-G22	HYD	(1) 2 X 5	RB2	617		
E11-3185-G23	HYD	(1) 4 X 5	RB2	617		
E11-3185-G32	MECH	(2) PSA 10	RB	575		
E11-3185-G36	MECH	(1) PSA 3	RB1	586		
E11-3185-G37	HYD	(1) 2 X 5	RB	575		
E11-3185-G38	HYD	(1) 1 1/2 X 5	RB1	603		
E11-3185-G41	HYD	(1) 2 X 5	RB2	617		
E11-3185-G48	HYD	(1) 1 1/2 X 5	RB1	606		
E11-3185-G49	HYD	(1) 2 X 5	RB1	606		
E11-3185-G50	HYD	(1) 2 1/2 X 5	RB1	592		
E11-3185-G51	HYD	(1) 2 X 5	RB2	617		
E11-3185-G54	MECH	(1) PSA 10	RB1	612		
E11-3185-G55	HYD	(1) 2 X 5	RB2	613		
E11-3185-G56	HYD	(1) 2 1/2 X 5	RB1	602		
E11-3185-G57	HYD	(1) 2 1/2 X 10	RB1	601		
E11-3519-G14	MECH	(1) PSA 3	DW	651	X	X
E11-4251-G17	MECH	(1) PSA 1/4	RB	578		X
E11-4611-G14	HYD	(1) 2 X 5	RB	577		X
E11-4612-G04	HYD	(2) 1 1/2 X 5	RB1	609		
E11-4612-G07	HYD	(2) 2 X 5	RB1	598		
E21-2199-G04	MECH	(1) PSA 1/2	RB	570		
E21-2199-G05	MECH	(1) PSA 1/2	RB	575		
E21-2199-G10	HYD	(1) 1 1/2 X 5	RB	557		
E21-2199-G11	HYD	(1) 1 1/2 X 5	RB	555		
E21-3052-G08	MECH	(1) PSA 3	DW	625	X	X
E21-3052-G09	MECH	(2) PSA 10	DW	626	X	X
E21-3053-G04	MECH	(1) PSA 10	DW	625	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E21-3053-G10	MECH	(2) PSA 10	DW	626	X	X
E21-3144-G23	HYD	(1) 4 X 5	RB2	624		
E21-3144-G26	HYD	(1) 2 X 10	RB	550		
E21-3144-G30	HYD	(1) 2 X 5	RB	553		
E21-3144-G32	HYD	(1) 1 1/2 X 5	RB	551		
E21-3145-G08	HYD	(1) 2 X 5	RB	578		
E21-3145-G12	HYD	(1) 1 1/2 X 5	RB	578		
E21-3145-G16	HYD	(1) 1 1/2 X 5	RB	573		
E21-3145-G17	HYD	(1) 1 1/2 X 5	RB	555		
E21-3145-G23	HYD	(1) 1 1/2 X 5	RB	553		
E21-3147-G05	HYD	(1) 2 X 5	RB	563		
E21-3147-G06	HYD	(1) 2 X 5	RB	563		
E21-3147-G08	HYD	(1) 2 X 5	RB1	591		
E21-3147-G09	HYD	(1) 2 X 5	RB1	590		
E21-3147-G26	MECH	(1) PSA 10	RB2	624		
E21-3147-G27	HYD	(1) 2 X 5	RB	558		
E21-3147-G28	HYD	(1) 1 1/2 X 5	RB	555		
E21-3147-G29	HYD	(1) 2 X 5	RB	553		
E21-3147-G30	HYD	(1) 2 X 5	RB	553		
E21-3147-G34	HYD	(1) 2 X 5	RB	545		
E21-3147-G37	HYD	(1) 1 1/2 X 5	RB	545		
E21-3150-G07	HYD	(1) 2 X 5	RB	581		
E21-3150-G08	HYD	(1) 2 X 5	RB	581		
E21-3150-G09	HYD	(1) 1 1/2 X 5	RB	567		
E41-3162-G17	HYD	(1) 4 X 5	AB	554		
E41-3162-G20	HYD	(1) 2 X 5	RB	559		X
E41-3162-G22	HYD	(1) 2 X 5	RB	555		
E41-3162-G23	HYD	(1) 2 X 5	AB	555		
E41-3162-G24	MECH	(1) PSA 10	AB	555		X
E41-3162-G25	MECH	(1) PSA 10	RB	562		X
E41-3162-G26	MECH	(1) PSA 10	RB	565		X
E41-3163-G17	MECH	(1) PSA 10	RB	542		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E41-3163-G18	HYD	(1) 2 1/2 X 5	AB	542		
E41-3163-G19	MECH	(1) PSA 3	AB	545		
E41-3165-G18	HYD	(1) 1 1/2 X 5	RB	578		
E41-3165-G26	HYD	(1) 1 1/2 X 5	RB	578		X
E41-3167-G14	MECH	(1) PSA 10	RB	579	X	X
E41-3167-G17	HYD	(1) 2 X 5	AB	553		
E41-3172-G11	HYD	(1) 2 1/2 X 5	AB	550		
E41-3172-G12	HYD	(1) 1 1/2 X 5	AB	550		
E41-3172-G16	HYD	(1) 1 1/2 X 5	AB	550		
E41-3172-G19	MECH	(1) PSA 10	RB	553		X
E41-3172-G20	HYD	(1) 1 1/2 X 5	RB	553		X
E41-3172-G26	MECH	(1) PSA 3	AB	550		
E51-3166-G44	MECH	(1) PSA 1	RB	575		X
E51-3174-G09	MECH	(1) PSA 35	RB	549		X
E51-3174-G09A	MECH	(1) PSA 35	RB	549		X
E51-3174-G09C	MECH	(1) PSA 35	RB	550		X
E51-3174-G17	HYD	(1) 1 1/2 X 5	RB	549		
E51-3174-G21	HYD	(1) 2 X 5	RB	559		X
E51-3174-G25	HYD	(1) 1 1/2 X 5	RB	575		X
E51-3174-G30	MECH	(1) PSA 1	RB	575		X
E51-3174-G32	HYD	(1) 1 1/2 X 5	RB	549		
E51-3174-G33	HYD	(1) 1 1/2 X 5	RB	549		X
E51-3174-G34	HYD	(1) 1 1/2 X 5	RB	549		
E51-3174-G36	HYD	(1) 1 1/2 X 5	RB	546		
E51-3174-G39	HYD	(1) 1 1/2 X 5	RB	549		
E51-3174-G40	HYD	(1) 1 1/2 X 5	RB	544		
E51-3175-G01	HYD	(1) 2 X 5	RB	559		
E51-3175-G02	HYD	(1) 2 X 5	RB	558		
E51-3175-G06	HYD	(1) 2 X 5	RB	574		
E51-3175-G07	HYD	(1) 2 X 5	RB	573		
E51-3175-G12	HYD	(1) 1 1/2 X 5	RB	576		X
E51-3175-G13	HYD	(1) 2 X 5	RB	576		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
E51-3175-G21	HYD	(1) 2 X 5	RB	576		X
E51-3175-G22	HYD	(1) 1 1/2 X 5	RB	576		X
E51-3175-G24	HYD	(1) 2 X 5	RB	578		
E51-3175-G25	HYD	(1) 1 1/2 X 5	RB	578		X
E51-3175-G26	HYD	(1) 1 1/2 X 5	RB	578		X
E51-3175-G27	HYD	(1) 1 1/2 X 5	RB	553		
E51-3176-G17	HYD	(1) 2 X 5	RB	542		X
G11-3658-G47	MECH	(1) PSA 1	RB	578		X
G11-3659-G46	MECH	(1) PSA 1	RB	578		X
G33-3096-G27	MECH	(1) PSA 3	RB2	625	X	X
G33-3244-G36	HYD	(2) 1 1/2 X 5	RB2	638	X	X
G33-3244-G37	HYD	(1) 2 1/2 X 5	RB2	638	X	X
G33-3244-G38	HYD	(1) 2 X 5	RB2	638	X	X
G33-3244-G39	MECH	(1) PSA 3	RB2	629	X	X
G33-3245-G30	MECH	(1) PSA 35	RB1	587	X	X
G33-3245-G32	MECH	(1) PSA 35	RB	579		X
G33-3245-G33	MECH	(1) PSA 35	RB	579		X
G33-3245-G37	MECH	(1) PSA 1	RB2	628	X	X
G33-3245-G38	MECH	(2) PSA 1/2	RB2	628	X	X
G33-3245-G45	MECH	(1) PSA 1	RB2	628	X	X
G33-3245-G47	MECH	(1) PSA 35	RB1	587	X	X
G33-3245-G49	MECH	(2) PSA 1	RB2	628	X	X
G33-3245-G67	MECH	(1) PSA 1	RB2	628	X	X
G51-4055-G08	MECH	(1) PSA 3	RB	541		X
G51-4055-G20	MECH	(1) PSA 3	RB	541		X
G51-4055-G23	MECH	(1) PSA 10	RB	541		X
G51-4056-G03	MECH	(1) PSA 1	RB	541		X
G51-4056-G20	MECH	(1) PSA 3	RB	541		X
G51-4056-G21	MECH	(1) PSA 1	RB	541		X
G51-4059-G15	HYD	(1) 1 1/2 X 5	RB	577		X
G51-4059-G17B	MECH	(1) PSA 1	RB	577		X
G51-4059-G20	MECH	(1) PSA 1	RB	577		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
G51-4059-G21	MECH	(1) PSA 3	RB	577		X
IW-B21-7195-G01	MECH	(2) PSA 1/4	RB1	600	X	X
N21-3536-G26	MECH	(2) PSA 35	DW	598	X	X
N21-3536-G27	MECH	(1) PSA 35	DW	599	X	X
N21-3536-G28	MECH	(1) PSA 10	DW	609	X	X
N21-3536-G29	MECH	(2) PSA 10	DW	609	X	X
N21-3536-G30	MECH	(1) PSA 35	DW	609	X	X
N21-3536-G31	MECH	(1) PSA 10	DW	621	X	X
N21-3536-G32	MECH	(1) PSA 10	DW	614	X	X
N21-3536-G33	MECH	(1) PSA 35	DW	617	X	X
N21-3536-G34	MECH	(1) PSA 35	DW	617	X	X
N21-3536-G35	MECH	(1) PSA 10	DW	625	X	X
N21-3536-G36	MECH	(1) PSA 10	DW	608	X	X
N21-3536-G37	MECH	(1) PSA 10	DW	611	X	X
N21-3536-G38	MECH	(2) PSA 10	DW	632	X	X
N21-3536-G39	MECH	(1) PSA 35	DW	609	X	X
N21-3536-G40	MECH	(1) PSA 35	RB1	587	X	X
N21-3537-G26	MECH	(2) PSA 35	DW	598	X	X
N21-3537-G27	MECH	(1) PSA 35	DW	599	X	X
N21-3537-G28	MECH	(1) PSA 10	DW	609	X	X
N21-3537-G29	MECH	(2) PSA 10	DW	609	X	X
N21-3537-G30	MECH	(1) PSA 35	DW	609	X	X
N21-3537-G31	MECH	(1) PSA 10	DW	621	X	X
N21-3537-G32	MECH	(1) PSA 10	DW	615	X	X
N21-3537-G33	MECH	(1) PSA 35	DW	617	X	X
N21-3537-G34	MECH	(1) PSA 35	DW	617	X	X
N21-3537-G35	MECH	(1) PSA 10	DW	625	X	X
N21-3537-G36	MECH	(1) PSA 10	DW	611	X	X
N21-3537-G37	MECH	(1) PSA 10	DW	611	X	X
N21-3537-G38	MECH	(2) PSA 10	DW	632	X	X
N21-3537-G39	MECH	(1) PSA 35	DW	609	X	X
N30-2186-G03	MECH	(1) PSA 1/4	RB1	584	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
N30-2186-G04	MECH	(1) PSA 1/4	RB	580	X	X
N30-2186-G05	MECH	(1) PSA 1/4	RB1	584	X	X
N30-2186-G07	MECH	(1) PSA 1/2	RB	580		X
N30-2186-G09	MECH	(1) PSA 1/2	RB1	584	X	X
N30-2186-G10	MECH	(1) PSA 1/4	RB1	584	X	X
N30-2186-G11	MECH	(1) PSA 1/4	RB1	584	X	X
N30-2186-G13	MECH	(1) PSA 1	RB1	584	X	X
N30-2186-G14	MECH	(1) PSA 1	RB1	584	X	X
N30-2186-G15	MECH	(1) PSA 1/2	RB1	584	X	X
N30-2186-G16	MECH	(1) PSA 1/2	RB1	584	X	X
N30-2186-G17	MECH	(1) PSA 1/4	RB1	584	X	X
N30-2186-G18	MECH	(1) PSA 1/2	RB1	584	X	X
N30-3258-G18	MECH	(1) PSA 35	AB2	632	X	X
N30-3258-G19	MECH	(1) PSA 35	AB2	632	X	X
N30-3258-G20	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G21	MECH	(1) PSA 35	TB2	635	X	X
N30-3259-G22	MECH	(1) PSA 35	TB2	635	X	X
N30-3259-G23	MECH	(1) PSA 35	TB2	635	X	X
N30-3259-G24	MECH	(1) PSA 35	TB2	635	X	X
N30-3259-G26	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G28	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G29	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G30	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G31	MECH	(1) PSA 35	TB2	632	X	X
N30-3259-G32	MECH	(1) PSA 100	TB2	626	X	X
N30-3259-G33	MECH	(1) PSA 35	TB2	625	X	X
N30-3259-G34	MECH	(1) PSA 35	TB2	625	X	X
N30-3259-G35	MECH	(1) PSA 35	TB2	626	X	X
N30-3259-G36	MECH	(1) PSA 35	TB2	626	X	X
N30-3259-G37	MECH	(1) PSA 35	TB2	625	X	X
N30-3259-G38	MECH	(1) PSA 100	TB2	626	X	X
N30-3259-G39	MECH	(1) PSA 100	TB2	625	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
N30-3259-G44	MECH	(1) PSA 35	TB2	637	X	X
N30-3259-G45	MECH	(1) PSA 35	TB2	637	X	X
N30-3259-G46	MECH	(1) PSA 35	TB2	638	X	X
N30-3259-G47	MECH	(1) PSA 35	TB2	637	X	X
N30-3259-G48	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G49	MECH	(1) PSA 100	TB2	631	X	X
N30-3259-G50	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G51	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G52	MECH	(1) PSA 35	TB2	630	X	X
N30-3259-G53	MECH	(1) PSA 35	TB2	630	X	X
N30-3259-G54	MECH	(1) PSA 100	TB2	631	X	X
N30-3259-G55	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G56	HYD	(1) EP-10	TB2	634	X	X
N30-3259-G57	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G58	MECH	(1) PSA 35	TB2	634	X	X
N30-3259-G67	MECH	(1) PSA 100	TB2	631	X	X
N30-3259-G68	MECH	(1) PSA 100	TB2	631	X	X
N30-3259-G75B	MECH	(1) PSA 100	TB2	631	X	X
N30-3259-G76	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G77	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G78	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G81	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G83	MECH	(1) PSA 35	TB2	631	X	X
N30-3259-G84	MECH	(1) PSA 35	TB2	631	X	X
N30-3526-G46	MECH	(1) PSA 1/2	DW	588	X	X
N30-3526-G48	MECH	(1) PSA 1/4	DW	586	X	X
N30-3526-G51	MECH	(1) PSA 1/4	DW	588	X	X
N30-3526-G52	MECH	(1) PSA 1/4	DW	588	X	X
N30-3526-G53	MECH	(1) PSA 1/4	DW	588	X	X
N30-3526-G54	MECH	(1) PSA 1/2	DW	587	X	X
N30-3526-G55	MECH	(1) PSA 1/2	DW	587	X	X
N30-3526-G57	MECH	(1) PSA 1/2	DW	588	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
T23-I2837-42-G03	MECH	(1) PSA 1/4	DW	599	X	X
T23-I2837-42-G12	MECH	(2) PSA 1/2	DW	597	X	X
T23-I2837-42-G14	MECH	(2) PSA 1/4	DW	594	X	X
T23-I2837-42-G17	MECH	(1) PSA 1/2	DW	594	X	X
T23-I2837-42-G20	MECH	(1) PSA 1/4	DW	599	X	X
T23-I2837-42-G21	MECH	(2) PSA 1/4	DW	599	X	X
T23-I2837-42-G22	MECH	(1) PSA 1/4	DW	598	X	X
T23-I2837-42-G23	MECH	(2) PSA 1/4	DW	595	X	X
T23-I2837-42-G24	MECH	(1) PSA 1/2	DW	599	X	X
T23-I2837-42-G26	MECH	(1) PSA 1/2	DW	599	X	X
T23-I2837-42-G27	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-42-G28	MECH	(1) PSA 1/2	DW	599	X	X
T23-I2837-42-G30	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-42-G36	MECH	(1) PSA 1/4	DW	599	X	X
T23-I2837-42-G41	MECH	(1) PSA 1/4	DW	593	X	X
T23-I2837-42-G50	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-42-G53	MECH	(1) PSA 1/4	DW	593	X	X
T23-I2837-42-G54	MECH	(1) PSA 1/4	DW	598	X	X
T23-I2837-42-G62	MECH	(1) PSA 1/4	DW	593	X	X
T23-I2837-43-G45	MECH	(1) PSA 1/2	DW	591	X	X
T23-I2837-43-G49	MECH	(1) PSA 1/4	DW	581	X	X
T23-I2837-45-G02	MECH	(2) PSA 1/2	DW	612	X	X
T23-I2837-45-G03	MECH	(1) PSA 1	DW	610	X	X
T23-I2837-45-G04	MECH	(1) PSA 1	DW	610	X	X
T23-I2837-45-G07	MECH	(1) PSA 1	DW	610	X	X
T23-I2837-45-G11	MECH	(2) PSA 1/2	DW	598	X	X
T23-I2837-45-G12	MECH	(2) PSA 1/2	DW	598	X	X
T23-I2837-45-G19	MECH	(1) PSA 1/2	DW	595	X	X
T23-I2837-46-G100	MECH	(1) PSA 1/2	DW	604	X	X
T23-I2837-46-G101	MECH	(1) PSA 1/4	DW	591	X	X
T23-I2837-46-G102	MECH	(1) PSA 1/4	DW	592	X	X
T23-I2837-46-G17	MECH	(3) PSA 1/4, (1) PSA 1	DW	596	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
T23-I2837-46-G22	MECH	(1) PSA 1/4	DW	603	X	X
T23-I2837-46-G42	MECH	(1) PSA 1/2	DW	604	X	X
T23-I2837-46-G54	MECH	(1) PSA 1/2	DW	599	X	X
T23-I2837-46-G70	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-46-G78	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-46-G93	MECH	(1) PSA 1/2	DW	599	X	X
T23-I2837-46-G94	MECH	(6) PSA 1/4	DW	600	X	X
T23-I2837-48-G08	MECH	(2) PSA 1/4	DW	598	X	X
T23-I2837-48-G12	MECH	(1) PSA 1/2	DW	598	X	X
T23-I2837-51-G141	MECH	(1) PSA 1/4	DW	649	X	X
T23-I2837-51-G142	MECH	(1) PSA 1/2	DW	650	X	X
T23-I2837-51-G144	MECH	(1) PSA 1/4	DW	649	X	X
T23-I2837-51-G19	MECH	(1) PSA 1/4	DW	649	X	X
T23-I2837-51-G28	MECH	(1) PSA 1/4	DW	647	X	X
T23-I2837-51-G29	MECH	(1) PSA 1/4	DW	648	X	X
T23-I2837-51-G33	MECH	(1) PSA 1/4	DW	645	X	X
T23-I2837-51-G43	MECH	(1) PSA 1/4	DW	671	X	X
T23-I2837-51-G61	MECH	(1) PSA 1/2	DW	650	X	X
T23-I2837-51-G62	MECH	(1) PSA 1/4	DW	650	X	X
T23-I2837-53-G22	MECH	(1) PSA 1/4	DW	624	X	X
T23-I2837-53-G31	MECH	(1) PSA 1/4	DW	608	X	X
T23-I2837-53-G35	MECH	(1) PSA 1/4	DW	608	X	X
T46-3092-G05	MECH	(1) PSA 10	RBB	572		
T46-3093-G10	HYD	(1) 4 X 5	RB3	651		
T46-3093-G11	HYD	(1) 2 1/2 X 5	RB3	651		
T46-3093-G15	HYD	(2) 2 1/2 X 5	RB4	670		
T46-3093-G18	HYD	(2) 4 X 5	RB2	635		
T48-2366-G25	MECH	(1) PSA 3	RB	578		X
T48-2366-G26	HYD	(2) 1 1/2 X 5	RB	579		X
T48-4061-G06	MECH	(1) PSA 1	RB	578		
T48-4061-G08	MECH	(1) PSA 1	RB	577		
T49-5325-G58	MECH	(1) PSA 1/2	RB2	633		

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
T49-5325-G59	MECH	(1) PSA 1/2	RB2	633		
T49-5325-G60	MECH	(1) PSA 1/2	RB2	633		
T50-7114-G44	MECH	(1) PSA 1/4	RB2	637		
T50-7114-G45	MECH	(1) PSA 1/4	RB2	637		
T50-7431-G02	MECH	(1) PSA 1/4	RB3	648		
T50-7431-G03	MECH	(2) PSA 1/4	RB3	648		
T71-I2820-35-G40	MECH	(1) PSA 1/2	RB2	630	X	X
T71-I2820-35-G46	MECH	(1) PSA 1/2	RB3	651		
T71-I2837-62-G35	MECH	(1) PSA 1/4	RB3	647		X
T71-I2837-62-G37	MECH	(1) PSA 1/4	RB3	642		X
T71-I2837-62-G39	MECH	(1) PSA 1/4	RB3	642		X
T71-I2837-62-G57	MECH	(1) PSA 1/4	RB3	647		
T71-I2837-63-G20	MECH	(1) PSA 1/2	RB2	628		
T71-I2837-63-G22	MECH	(1) PSA 1/4	RB2	630		X
T71-I2837-63-G24	MECH	(1) PSA 1/4	RB2	630		
T71-I2837-63-G25	MECH	(1) PSA 1/4	RB2	630		X
T71-I2837-63-G32	MECH	(1) PSA 1/2	RB2	630		
T71-I2837-63-G34	MECH	(1) PSA 1/4	RB2	630		
T71-I2837-64-G47	MECH	(1) PSA 1/4	RB2	630	X	X
T71-I2837-64-G48	MECH	(1) PSA 1/4	RB2	630	X	X
T71-I2837-64-G49	MECH	(1) PSA 1/4	RB2	629	X	X
T71-I2837-64-G50	MECH	(1) PSA 1/4	RB2	629	X	X
T71-I2837-64-G51	MECH	(1) PSA 1/2	RB2	630	X	X
T71-I2837-64-G52	MECH	(1) PSA 1/4	RB2	629	X	X
W-B31-5064-G24	MECH	(1) PSA 1/2	RB1	596		
W-B31-5065-G39	MECH	(3) PSA 1/4	RB1	597		
W-B31-5065-G40	MECH	(1) PSA 1/4	RB1	597		
W-B31-5065-G41	MECH	(1) PSA 1/4	RB1	595		
W-B31-5239-G02	MECH	(2) PSA 1/4	RB1	596		
W-B31-5239-G06	MECH	(1) PSA 1/2	DW	594	X	X
W-B31-5239-G16	MECH	(1) PSA 1/2	RB1	598		
W-E11-2299-G02	MECH	(1) PSA 1/4	DW	612	X	X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
W-E11-2299-G05	MECH	(1) PSA 1/4	DW	597	X	X
W-E11-2299-G07	MECH	(1) PSA 1/4	DW	598	X	X
W-E11-4004-G01S	MECH	(1) PSA 1/4	RB2	624		
W-E11-4004-G02	MECH	(2) PSA 1/4	RB2	624		
W-E11-4004-G22	MECH	(1) PSA 1/4	RB3	646		
W-E11-4011-G04	MECH	(1) PSA 1/4	RB2	626		
W-E11-4011-G09S	MECH	(1) PSA 1/4	RB2	630		
W-E11-5166-G05	MECH	(1) PSA 1/4	RB2	630		
W-E11-5302-G19	MECH	(1) PSA 1/4	RB2	637		
W-E21-5300-G06	MECH	(1) PSA 1/4	RB	572		
W-E41-5256-G02	MECH	(1) PSA 1/4	AB	542		
W-E41-5256-G03	MECH	(1) PSA 1/2	AB	544		
W-E41-5256-G20S	MECH	(2) PSA 1/4 / (1) PSA 1/2	RB	561		X
W-E41-5256-G21	MECH	(1) PSA 1/2	RB	562		X
W-E41-5256-G22S	MECH	(1) PSA 1/2	RB	561		X
W-P42-4357-G22	MECH	(2) PSA 1/4	DW	582	X	X
W-P50-2163-G13	MECH	(1) PSA 1/4	RB1	603		
W-P50-2163-G14	MECH	(1) PSA 1/4	RB1	602		
W-P50-2163-G15	MECH	(2) PSA 1/4	RB1	602		
W-P50-2163-G17	MECH	(1) PSA 1/4	RB1	602		
W-P50-2163-G18	MECH	(1) PSA 1/4	DW	602	X	X
W-P50-3308-G35	MECH	(1) PSA 1	AB	561		
W-P50-3579-G25	MECH	(1) PSA 1/4	DW	602	X	X
W-T48-4062-G01	MECH	(1) PSA 1/4	RB	574		
W-T48-4062-G05	MECH	(2) PSA 1/4	RB	577		
W-T48-5225-G06	MECH	(1) PSA 1/4	RB2	622		
W-T48-5225-G09	MECH	(1) PSA 1/4	RB2	622		
W-T48-5314-G02	MECH	(1) PSA 1/4	RB	576		X
W-T48-5314-G03	MECH	(1) PSA 1/2	RB	576		X
W-T48-5314-G04	MECH	(1) PSA 1/2	RB	576		X
W-T48-5314-G05	MECH	(1) PSA 1/4	RB	576		X
W-T48-5314-G06	MECH	(1) PSA 1/4	RB	576		X

Component No	Snubber Type	(Quantity) Size	Location	Elevation	Inaccessible	ALARA Concerns
W-T48-5314-G07	MECH	(1) PSA 1/4	RB	576		X
W-T48-5314-G10	MECH	(1) PSA 1/4	DW	576	X	X