

June 12, 2009

Document Control Desk  
U. S. Nuclear Regulatory Commission  
11555 Rockville Pike  
Rockville, MD 20852

Attention: Joseph Williams

Subject: Project No. 704 - Transmittal of BWRVIP Summary of BWR Dissimilar Metal Weld Survey

Reference: BWRVIP Letter 2009-137 from Rick Libra (BWRVIP Chairman) to Joseph Williams (NRC), "Project No. 704 - BWRVIP Summary of BWR Dissimilar Metal Weld Survey" dated April 8, 2009

Reference: BWRVIP Letter 2009-179 from Rick Libra (BWRVIP Chairman) to Joseph Williams (NRC), "Project No. 704 - Re-transmittal of BWRVIP Summary of BWR Dissimilar Metal Weld Survey" dated May 18, 2009

The purpose of this letter is to re-transmit five (5) copies of the "BWRVIP Summary of BWR Dissimilar Metal Weld Survey". This document was previously transmitted to the NRC by the BWRVIP letter 2009-137 and 2009-179 referenced above. This document is being re-transmitted to the NRC to include a new affidavit that was not submitted with the original BWRVIP transmittal letter 2009-179 referenced above. This transmittal has been revised to conform to the NRC processing into ADAMS by the Document Control Desk. This document is being transmitted to the NRC for information only.

The dissimilar metal weld information contained in Attachment 1 details the quantity of dissimilar metal welds, identifies the category of the weld in accordance with BWRVIP-75-A, indicates the type of weld stress improvement applied, and summarizes the weld examination history for each weld category since 1998 through February 2007 for Categories A and B, and 1998 through February 2009 for Categories C, D and E.

The BWRVIP continues to monitor the status of dissimilar metal welds, work on guidance for dissimilar metal welds, and provide support to the member utilities. In accordance with BWRVIP recommendations and in response to industry OE, plants have performed examination record reviews of all Category D DM welds (regardless of material) and all Category C DM welds with 82/182 metal exposed to the environment. This review identified some dissimilar metal Category D welds that were not previously identified or Category D welds that were previously mis-categorized.

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- The updated total number of dissimilar metal welds within the scope of BWRVIP-75-A is 1001. The number of welds in each category is:
  - Category A - 331
  - Category B - 102
  - Category C - 359
  - Category D - 179
  - Category E - 30
- 31 of the 35 U.S. BWRs have performed examinations on all Category D dissimilar metal welds that fully comply with the requirements of ASME Code Section XI, Appendix VIII, Supplement 10. These plants account for 141 of the 179 Category D weld population.
- 4 of the 35 U.S. BWRs have performed examinations on a portion of their Category D dissimilar metal welds that fully comply with the requirements of ASME Code Section XI, Appendix VIII, Supplement 10. These plants account for the remaining 38 of the 179 Category D weld population. Of the 38 welds, 26 have been examined with a Supplement 10 examination and 12 remain. Each of the licensees with remaining Supplement 10 Category D welds exams has communicated their examination schedules for completing the exams and they are all scheduled for completion in their next refueling outage and thus no later than the end of 2010.
- 23 of the 35 U.S. BWRs have performed examinations on all Category C dissimilar metal welds that fully comply with the requirements of ASME Code Section XI, Appendix VIII, Supplement 10. These plants account for 108 of the 359 Category C weld population.
- 12 of the 35 U.S. BWRs have performed examinations on a portion of their Category C dissimilar metal welds that fully comply with the requirements of ASME Code Section XI, Appendix VIII, Supplement 10. These plants account for the remaining 251 of the 359 Category C weld population. Of the 251 welds, 124 have been examined with a Supplement 10 examination and 127 remain.

Please note that the enclosed Attachment 1 contains proprietary information. A non-proprietary version is enclosed as Attachment 2. This non-proprietary version is identical to the enclosed proprietary table except that the proprietary information has been deleted.

A letter requesting that the information in Attachment 1 be withheld from public disclosure and an affidavit describing the basis for withholding this information are provided as Attachment 3. All the proprietary information in Attachment 1 is considered "trade secrets" in accordance with 10CFR2.390(a)(4).

The BWRVIP remains committed to work on this issue and support the member utilities. However, questions regarding plant specific data or planned actions should be directed to the licensee.

BWRVIP 2009-193

If you have any technical questions on this subject please call Bob Geier (Exelon, BWRVIP Assessment Committee Technical Chairman) at 630.657.3830 or Bob Carter (EPRI) at 704.595.2019.

Sincerely,

A handwritten signature in black ink that reads "Rick Libra". The signature is written in a cursive style with a prominent dot over the 'i' in "Libra".

Rick Libra  
Exelon  
Chairman, BWR Vessel and Internals Project

cc: Matthew A. Mitchell, NRC

**CHRISTIAN B. LARSEN**  
Vice President and  
Chief Nuclear Officer

June 12, 2009

Document Control Desk  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

**Subject: Request for Withholding of the following Proprietary Document:**

*BWRVIP Letter 2009-193 from Rick Libra (BWRVIP Chairman) to Joseph Williams (NRC), with attachment: "BWRVIP Summary of BWR Dissimilar Metal Weld Examinations," dated June 12, 2009*

To Whom It May Concern:

This is a request under 10 C.F.R. §2.390(a)(4) that the U.S. Nuclear Regulatory Commission ("NRC") withhold from public disclosure the information identified in the enclosed Affidavit consisting of the proprietary information owned by Electric Power Research Institute, Inc. ("EPRI") identified above (the "Correspondence"). Proprietary and non-proprietary versions of the Correspondence and the Affidavit in support of this request are enclosed.

EPRI desires to disclose the Correspondence in confidence as a means of exchanging technical information with the NRC. The Correspondence is not to be divulged to anyone outside of the NRC or to any of its contractors, nor shall any copies be made of the Correspondence provided herein. EPRI welcomes any discussions and/or questions relating to the information enclosed.

If you have any questions about the legal aspects of this request for withholding, please do not hesitate to contact me at (650) 855-2329. Questions on the content of the Correspondence should be directed to Jonathan Kubiak of EPRI at (650)855-2458.

Sincerely,



## AFFIDAVIT

**RE: Request for Withholding of the Following Proprietary Document:**

*BWRVIP Letter 2009-193 from Rick Libra (BWRVIP Chairman) to Joseph Williams (NRC), with attachment: "BWRVIP Summary of BWR Dissimilar Metal Weld Examinations," dated June 12, 2009*

I, CHRISTIAN B. LARSEN, being duly sworn, depose and state as follows:

I am a Vice President and the Chief Nuclear Officer of Electric Power Research Institute, Inc. whose principal office is located at 3420 Hillview Avenue, Palo Alto, California ("EPRI") and I have been specifically delegated responsibility for the above-listed Correspondence that is sought under this Affidavit to be withheld (the "Correspondence"). I am authorized to apply to the U.S. Nuclear Regulatory Commission ("NRC") for the withholding of the Correspondence on behalf of EPRI.

EPRI requests that the Correspondence be withheld from the public on the following bases:

Withholding Based Upon Privileged And Confidential Trade Secrets Or Commercial Or Financial Information:

a. The Correspondence is owned by EPRI and has been held in confidence by EPRI. All entities accepting copies of the Correspondence do so subject to written agreements imposing an obligation upon the recipient to maintain the confidentiality of the Correspondence. The Correspondence is disclosed only to parties who agree, in writing, to preserve the confidentiality thereof.

b. EPRI considers the Correspondence and the proprietary information contained therein (the "Proprietary Information") to constitute trade secrets of EPRI. As such, EPRI holds the Correspondence in confidence and disclosure thereof is strictly limited to individuals and entities who have agreed, in writing, to maintain the confidentiality of the Correspondence. EPRI made a substantial economic investment to develop the Correspondence, and, by prohibiting public disclosure, EPRI derives an economic benefit in the form of licensing royalties and other additional fees from the confidential nature of the Correspondence. If the Correspondence and the Proprietary Information were publicly available to consultants and/or other businesses providing services in the electric and/or nuclear power industry, they would be able to use the Correspondence for their own commercial benefit and profit and without expending the substantial economic resources required of EPRI to develop the Correspondence.

c. EPRI's classification of the Correspondence and the Proprietary Information as trade secrets is justified by the Uniform Trade Secrets Act which California adopted in 1984 and a version of which has been adopted by over forty states. The California Uniform Trade Secrets Act, California Civil Code §§3426 – 3426.11, defines a "trade secret" as follows:

“Trade secret’ means information, including a formula, pattern, compilation, program device, method, technique, or process, that:

(1) Derives independent economic value, actual or potential, from not being generally known to the public or to other persons who can obtain economic value from its disclosure or use; and

(2) Is the subject of efforts that are reasonable under the circumstances to maintain its secrecy.”

d. The Correspondence and the Proprietary Information contained therein are not generally known or available to the public. EPRI developed the Correspondence only after making a determination that the Proprietary Information was not available from public sources. EPRI made a substantial investment of both money and employee hours in the development of the Correspondence. EPRI was required to devote these resources and effort to derive the Proprietary Information and the Correspondence. As a result of such effort and cost, both in terms of dollars spent and dedicated employee time, the Correspondence is highly valuable to EPRI.

e. A public disclosure of the Proprietary Information would be highly likely to cause substantial harm to EPRI's competitive position and the ability of EPRI to license the Proprietary Information both domestically and internationally. The Proprietary Information and Correspondence can only be acquired and/or duplicated by others using an equivalent investment of time and effort.

I have read the foregoing and the matters stated herein are true and correct to the best of my knowledge, information and belief. I make this affidavit under penalty of perjury under the laws of the United States of America and under the laws of the State of California.

Executed at 3420 Hillview Avenue, Palo Alto, California being the premises and place of business of Electric Power Research Institute, Inc.

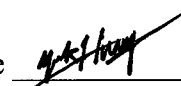
June 12, 2009

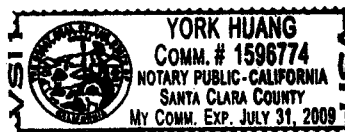


Christian B. Larsen

State of California )  
County of Santa Clara)

Subscribed and sworn to (or affirmed) before me on this 12th day of June, 2009, by Christian B. Larsen, proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.

Signature  (Seal)



Details of the BWR Fleet Category A through E Dissimilar  
Metal Weld Population

**Attachment 2**  
**Non-Proprietary**

Attachment 2 Non-Proprietary Version

Plant #	U. S. Plants	U.S. BWR Dissimilar Metal Weld Summary Sheet																													
		Total # Welds	Weld Category per - BWRVIP-75-A					Stress Improvements by Weld Category											Inspection Summary												
			A	B	C	D	E	A		B		C		D		E			# Welds not SI or overfald	Total # Welds Examined	Total # of UT Exams	Total # of non-Supp 10 Exams	Total # of Supp 10 Exams	# Cat C DM welds w/ 182 Exposed to Env. NOT Examined w/Supp 10	# Cat D DM welds NOT Examined w/Supp 10						
								MSIP	IHSI	MSIP	IHSI	MSIP	IHSI	MSIP	IHSI	MSIP	IHSI	MSIP								IHSI	MSIP	IHSI	Overlay		
1		36	27	0	7	2	0	27	0	0	0	7	0	0	0	0	0	0	0	0	0	0	0	0	2	36	38	2	36	0	0
2		35	20	0	9	5	1	0	14	0	0	0	7	2	0	0	0	0	0	0	0	0	0	0	11	10	15	9	6	0	0
3		36	20	0	16	0	0	16	0	0	0	16	0	0	0	0	0	0	0	0	0	0	0	4	21	24	19	5	0	0	
4		30	14	0	7	9	0	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0	0	23	13	20	6	14	0	0	
5		22	10	0	7	3	2	0	0	0	0	4	3	0	0	2	0	0	0	0	0	0	0	13	9	10	1	9	0	0	
6		31	0	0	0	31	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	31	31	36	5	31	0	0	
7		43	13	5	25	0	0	13	0	0	5	25	0	0	0	0	0	0	0	0	0	0	0	0	36	53	31	22	10	0	
8		22	21	0	0	1	0	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	14	15	12	3	0	0	
9		37	19	0	9	9	0	1	0	0	0	9	0	2	0	0	0	0	0	0	0	0	0	25	23	32	23	9	0	0	
10		27	18	0	0	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	14	23	14	9	0	0	
11		30	0	0	11	15	4	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	4	15	30	43	11	32	0	0	
12		24	0	24	0	0	0	0	0	19	5	0	0	0	0	0	0	0	0	0	0	0	0	0	13	15	6	9	0	0	
13		27	5	0	0	20	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	25	18	49	31	18	0	4	
14		34	0	0	34	0	0	0	0	0	0	0	34	0	0	0	0	0	0	0	0	0	0	0	34	37	24	13	21	0	
15		21	0	0	17	0	4	0	0	0	0	6	11	0	0	0	0	0	0	0	0	0	4	0	18	19	7	12	5	0	
16		29	0	0	25	3	1	0	0	0	0	13	12	0	3	0	0	0	0	0	0	0	1	0	28	28	14	14	14	0	
17		27	5	0	17	2	3	0	0	0	0	17	0	0	0	0	0	0	0	0	0	0	0	7	26	60	56	4	13	2	
18		40	0	21	17	2	0	0	0	0	21	17	0	0	0	0	0	0	0	0	0	0	0	2	18	18	18	0	16	2	
19		42	5	34	3	0	0	0	0	33	1	3	0	0	0	0	0	0	0	0	0	0	0	5	5	5	5	0	0	0	
20		29	6	0	22	0	1	0	0	0	0	22	0	0	0	1	0	0	0	0	0	0	0	6	28	34	25	9	14	0	
21		29	11	18	0	0	0	0	0	18	0	0	0	0	0	0	0	0	0	0	0	0	0	11	20	18	14	4	0	0	
22		30	30	0	0	0	0	0	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	12	13	10	3	0	0	
23		15	0	0	0	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	14	14	4	10	0	4	
24		30	0	0	0	28	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	28	30	66	36	30	0	0	
25		19	0	0	16	3	0	0	0	0	0	10	6	0	0	0	0	0	0	0	0	0	0	3	10	17	2	15	4	0	
26		27	21	0	0	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	27	11	17	11	6	0	0	
27		27	26	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	26	13	13	9	4	0	0	
28		36	11	0	23	0	2	0	0	0	0	23	0	0	0	1	0	1	0	0	0	0	0	11	26	28	14	14	10	0	
29		20	0	0	0	17	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	17	20	20	1	19	0	0	
30		24	13	0	11	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	0	13	8	8	8	0	0	0	
31		28	16	0	12	0	0	0	0	0	0	12	0	0	0	0	0	0	0	0	0	0	0	16	4	4	3	1	1	0	
32		27	0	0	27	0	0	0	0	0	0	27	0	0	0	0	0	0	0	0	0	0	0	0	27	27	0	27	0	0	
33		23	0	0	21	0	2	0	0	0	0	21	0	0	0	0	0	0	0	0	0	0	2	0	23	18	0	18	3	0	
34		22	0	0	22	0	0	0	0	0	0	22	0	0	0	0	0	0	0	0	0	0	0	0	22	22	19	3	16	0	
35		22	20	0	0	0	2	0	12	0	0	0	0	0	0	0	0	0	0	0	0	0	2	8	0	9	0	9	0	0	
TOTALS		1001	331	102	359	179	30	57	61	70	32	277	82	2	3	5	0	24	388	665	868	450	418	127	12						



Attachment 2 Non-Proprietary Version

Category A Dissimilar Metal Weld											
Plant #	U. S. Plants	Total BWRVIP-75-A Weld Population Count	Weld Stress Improvement Details		Weld Examination Details						
			MSIP	IHSI	Summary		# Exams w/ Supp 10		# Exams w/ Non Supp 10		Welds Mit. w/ HWC
			Total # Welds MSIP	Total # Welds IHSI	Total # Welds Examined	Total # of Exams	Manual	Auto	Manual	Auto	
1		27	27	0	27	27	13	14	0	0	0
2		20	0	14	1	1	0	1	0	0	1
3		20	16	0	5	5	0	3	0	2	5
4		14	0	0	1	1	1	0	0	0	10
5		10	0	0	0	0	0	0	0	0	10
6		0	0	0	0	0	0	0	0	0	0
7		13	13	0	9	12	2	2	2	6	2
8		21	0	21	13	13	2	0	3	8	19
9		19	1	0	9	9	0	0	0	9	1
10		18	0	0	5	5	0	0	0	5	12
11		0	0	0	0	0	0	0	0	0	0
12		0	0	0	0	0	0	0	0	0	0
13		5	0	0	0	0	0	0	0	0	1
14		0	0	0	0	0	0	0	0	0	0
15		0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0
17		5	0	0	5	5	0	0	5	0	4
18		0	0	0	0	0	0	0	0	0	0
19		5	0	0	2	2	0	0	0	2	0
20		6	0	0	5	5	0	0	0	5	0
21		11	0	0	7	7	1	1	3	2	3
22		30	0	14	12	13	3	0	10	0	10
23		0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0
26		21	0	0	5	5	0	0	3	2	0
27		26	0	0	12	12	2	1	5	4	0
28		11	0	0	2	2	0	0	2	0	6
29		0	0	0	0	0	0	0	0	0	0
30		13	0	0	3	3	0	0	3	0	2
31		16	0	0	1	1	0	0	1	0	2
32		0	0	0	0	0	0	0	0	0	0
33		0	0	0	0	0	0	0	0	0	0
34		0	0	0	0	0	0	0	0	0	0
35		20	0	12	0	8	5	3	0	0	0
TOTALS		331	57	61	124	136	29	25	37	45	88

Attachment 2 Non-Proprietary Version

Category B Dissimilar Metal Weld																
Plant #	U. S. Plants	Total BWRVIP-75-A Weld Population Count			Weld Stress Improvement Details						Weld Examination Details					Welds Mit. w/ HWC
		Total DM Weld Population #	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	MSIP			IHSI			# Welds Examined w/ Supp 10			# Welds w/o Supp 10 Exam		
					Total # Welds MSIP	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	Total # Welds IHSI	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	Total # DM welds Examined	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	
1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
3		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7		5	0	5	0	0	0	5	0	5	3	0	3	0	2	2
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12		24	19	5	19	19	0	5	0	5	9	7	2	12	3	19
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18		21	12	9	0	0	0	21	12	9	0	0	0	12	9	0
19		34	27	7	33	27	6	1	0	1	0	0	0	27	7	0
20		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21		18	18	0	18	18	0	0	0	0	2	2	0	16	0	4
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTALS		102	76	26	70	64	6	32	12	20	14	9	5	67	21	25

Attachment 2 Non-Proprietary Version

Category C Dissimilar Metal Weld																	
Plant #	U. S. Plants	Total BWRVIP-75-A Weld Population Count			Weld Stress Improvement Details						Weld Examination Details					Welds Mit. w/ HWC	
		Total DM Weld Population #	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	MSIP			IHSI			# Welds Examined w/ Supp 10			# Welds w/o Supp 10 Exam			Examination Schedule for Supp 10 Exams of remaining DM Welds with 182 Exposed to Env.
					Total # Welds MSIP	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	Total # Welds IHSI	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	Total # DM welds Examined	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)	# DM welds w/ 182 Exposed to Env.	# DM welds other (e.g. SS)		
1		7	0	7	7	0	7	0	0	0	7	0	7	0	0		0
2		9	0	9	7	0	7	2	0	2	0	0	0	0	9		3
3		16	0	16	16	0	16	0	0	0	2	0	2	0	14		16
4		7	4	3	4	4	0	3	0	3	4	4	0	0	3		7
5		7	4	3	4	4	0	3	0	3	4	4	0	0	3		5
6		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
7		25	25	0	25	25	0	0	0	0	15	15	0	10	0	(7) 2009 / (3) 2011	14
8		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
9		9	0	9	9	0	9	0	0	0	0	0	0	0	9		8
10		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
11		11	0	11	0	0	0	11	0	11	6	0	6	0	5		8
12		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
13		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
14		34	34	0	0	0	0	34	34	0	13	13	0	21	0	(8) 2010 / (13) 2012	0
15		17	17	0	6	6	0	11	11	0	12	12	0	5	0	(5) 2010	10
16		25	25	0	13	13	0	12	12	0	11	11	0	14	0	(14) 2009	12
17		17	17	0	17	17	0	0	0	0	4	4	0	13	0	(8) 2009 / (5) 2010	12
18		17	16	1	17	16	1	0	0	0	0	0	0	16	1	(16) 2010	0
19		3	0	3	3	0	3	0	0	0	0	0	0	0	3		0
20		22	20	2	22	20	2	0	0	0	8	6	2	14	0	(14) TBD	7
21		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
22		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
23		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
24		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
25		16	14	2	10	8	2	6	6	0	12	10	2	4	0	(4) 2010	10
26		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
27		1	0	1	1	0	1	0	0	0	1	0	1	0	0		0
28		23	23	0	23	23	0	0	0	0	13	13	0	10	0	(9) 2009 / Relief request approved 1 weld	14
29		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
30		11	0	11	11	0	11	0	0	0	0	0	0	0	11		0
31		12	2	10	12	2	10	0	0	0	1	1	0	1	10	(1) 2010	0
32		27	27	0	27	27	0	0	0	0	27	27	0	0	0		0
33		21	17	4	21	17	4	0	0	0	16	14	2	3	2	(3) 2010	2
34		22	19	3	22	19	3	0	0	0	3	3	0	16	3	(20) 2009	2
35		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
TOTALS		359	264	95	277	201	76	82	63	19	159	137	22	127	73		130

Attachment 2 Non-Proprietary Version

Category D Dissimilar Metal Weld

Plant #	U. S. Plants	Total BWRVIP-75-A Weld Population Count	Weld Stress Improvement		Weld Examination Details				Welds Mit. w/ HWC	
			MSIP	IHSI	Summary		# Exams w/ Supp 10			Schedule for Inspection of Remaining Welds w/ Supp 10 Exam
			Total # Welds MSIP	Total # Welds IHSI	# Welds w/o Supp 10 Exam	Total # Welds Examined w/Supp 10	Manual	Auto		
1		2	0	0	0	2	2	0		0
2		5	0	0	0	5	5	0		5
3		0	0	0	0	0	0	0		0
4		9	0	0	0	9	1	8		1
5		3	0	0	0	3	2	1		1
6		31	0	0	0	31	5	26		0
7		0	0	0	0	0	0	0		0
8		1	0	0	0	1	1	0		0
9		9	2	0	0	9	0	9		4
10		9	0	0	0	9	0	9		0
11		15	0	0	0	15	22	0		0
12		0	0	0	0	0	0	0		0
13		20	0	0	4	16	4	12	(4) / 2010	15
14		0	0	0	0	0	0	0		0
15		0	0	0	0	0	0	0		0
16		3	0	3	0	3	3	0		0
17		2	0	0	2	0	0	0	(2) / 2009	0
18		2	0	0	2	0	0	0	(2) / 2010	0
19		0	0	0	0	0	0	0		0
20		0	0	0	0	0	0	0		0
21		0	0	0	0	0	0	0		0
22		0	0	0	0	0	0	0		0
23		14	0	0	4	10	3	7	(4) / 2009	6
24		28	0	0	0	28	2	26		20
25		3	0	0	0	3	3	0		0
26		6	0	0	0	6	6	0		0
27		0	0	0	0	0	0	0		0
28		0	0	0	0	0	0	0		0
29		17	0	0	0	17	7	10		10
30		0	0	0	0	0	0	0		0
31		0	0	0	0	0	0	0		0
32		0	0	0	0	0	0	0		0
33		0	0	0	0	0	0	0		0
34		0	0	0	0	0	0	0		0
35		0	0	0	0	0	0	0		0
TOTALS		179	2	3	12	167	66	108		62

BWRVIP U.S. BWR Dissimilar Metal Weld Population Table

Attachment 2 Non-Proprietary Version

Category E Dissimilar Metal Weld												
Plant #	U. S. Plants	Total BWRVIP-75-A Weld Population Count	Weld Stress Improvement Details			Weld Examination Details						Welds Mit. w/ HWC
			MSIP	IHSI	Overlaid	Summary		# Exams w/ Supp 10/11		# Exams w/ Non Supp 10/11		
						Total # Welds MSIP	Total # Welds IHSI	Total # Welds Examined	Total # Exams	Manual	Auto	
1		0	0	0	0	0	0	0	0	0	0	0
2		1	0	0	1	1	1	0	0	0	1	1
3		0	0	0	0	0	0	0	0	0	0	0
4		0	0	0	0	0	0	0	0	0	0	0
5		2	2	0	0	2	2	0	2	0	0	2
6		0	0	0	0	0	0	0	0	0	0	0
7		0	0	0	0	0	0	0	0	0	0	0
8		0	0	0	0	0	0	0	0	0	0	0
9		0	0	0	0	0	0	0	0	0	0	0
10		0	0	0	0	0	0	0	0	0	0	0
11		4	0	0	4	4	6	4	0	0	2	4
12		0	0	0	0	0	0	0	0	0	0	0
13		2	0	0	2	2	3	1	1	1	0	1
14		0	0	0	0	0	0	0	0	0	0	0
15		4	0	0	4	0	0	0	0	0	0	0
16		1	0	0	1	0	0	0	0	0	0	0
17		3	0	0	3	3	7	0	0	7	0	2
18		0	0	0	0	0	0	0	0	0	0	0
19		0	0	0	0	0	0	0	0	0	0	0
20		1	1	0	0	1	3	0	1	0	2	0
21		0	0	0	0	0	0	0	0	0	0	0
22		0	0	0	0	0	0	0	0	0	0	0
23		1	0	0	0	0	0	0	0	0	0	0
24		2	1	0	1	2	6	0	2	0	4	1
25		0	0	0	0	0	0	0	0	0	0	0
26		0	0	0	0	0	0	0	0	0	0	0
27		0	0	0	0	0	0	0	0	0	0	0
28		2	1	0	1	2	4	0	1	0	3	0
29		3	0	0	3	3	3	1	1	1	0	1
30		0	0	0	0	0	0	0	0	0	0	0
31		0	0	0	0	0	0	0	0	0	0	0
32		0	0	0	0	0	0	0	0	0	0	0
33		2	0	0	2	2	2	0	2	0	0	2
34		0	0	0	0	0	0	0	0	0	0	0
35		2	0	0	2	0	1	1	0	0	0	1
TOTALS		30	5	0	24	22	38	7	10	9	12	15