

Appendix D – Averaging of Scores

The average scores for susceptibility, confidence, and knowledge level for each of the 1196 sets of evaluations are found below. The list has entries for each subgroup within a group and for each degradation mechanism scored. It also shows the range of the scores and the number of panel members that scored that degradation mechanism. If the range of scores is ≥ 2 the average score is flagged by underlining it. This makes it easier to find situations where there was a relatively large discrepancy in the scoring. The table also color-codes the results by shading the degradation mechanism according to where the average susceptibility and knowledge level scores fall on the diagram shown in Figure 3.1. Hence, each line has a color, green, yellow, orange, or red, assigned to it to make it easier to identify the group-average results. The tables also have a notation to indicate if the confidence rating was less than two for any of the evaluations.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

1 Reactor Coolant System

Cold Leg Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 1.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 1.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.88	2.38	<u>2.13</u>	0 - 1	1 - 3	1 - 3	8
Subgroup 1.3.1	Austenitic piping weld HAZs Type 304, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.38	2.50	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 1.3.2	Austenitic piping weld HAZs Type 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.25	2.38	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 1.4	Austenitic to austenitic weld metals Type 308, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.50	2.00	1.75	1 - 2	2 - 2	1 - 2	8
FR	1.14	2.57	<u>2.14</u>	1 - 2	2 - 3	1 - 3	7
SCC	1.13	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 1.5	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.88	1 - 2	2 - 2	1 - 2	8
FR	1.25	2.25	1.50	1 - 2	2 - 3	1 - 2	4
SCC	1.50	2.50	<u>1.63</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 1.6	Cast stainless steel components CF8, CF8M, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.13	<u>1.88</u>	1 - 2	1 - 3	1 - 3	8
FR	1.13	2.50	2.25	1 - 2	2 - 3	2 - 3	8
SCC	?	1.25	1.38	1.25	1 - 2	1 - 2	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

1 Reactor Coolant System

Cold Leg Piping

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 1.7	Socket welds Types 304, 308, 316, PWR primary water 556 to 559°F, 2250 psia							
	FAT	2.38	2.88	1.75	2 - 3	2 - 3	1 - 2	8
	SCC	1.38	2.75	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 1.8	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 556 to 559°F, 2250 psia							
	FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 1.9	Dissimilar metal welds Type 308, 309 External Surface							
	FAT	1.00	2.00	1.00	1 - 1	2 - 2	1 - 1	1
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	PIT	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	SCC	<u>1.86</u>	3.00	<u>2.14</u>	1 - 3	3 - 3	1 - 3	7
Subgroup 1.10	Cast stainless steel piping CF8, CF8M, PWR primary water 556 to 559°F, 2250 psia For other Westinghouse plants							
	FAT	1.13	2.13	<u>1.88</u>	1 - 2	1 - 3	1 - 3	8
	FR	1.14	2.57	2.29	1 - 2	2 - 3	2 - 3	7
	SCC ?	1.25	1.50	<u>1.50</u>	1 - 2	1 - 3	1 - 3	8
Subgroup 1.11	Clad ferritic steel piping stainless steel clad carbon steel PWR primary water, 556 to 559°F, 2250 psia For CE and B&W plants							
	BAC	<u>1.25</u>	2.50	<u>1.88</u>	0 - 2	1 - 3	1 - 3	8
	DEBOND	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	FAT	1.00	2.25	<u>2.13</u>	1 - 1	2 - 3	1 - 3	8
	SCC	1.13	2.50	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

2 Reactor Coolant System

Crossover Leg Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 2.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 2.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.88	2.63	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 2.3.1	Austenitic piping weld HAZs Type 304, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.25	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 2.3.2	Austenitic piping weld HAZs Type 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.13	2.38	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 2.4	Austenitic to austenitic weld metals Type 308, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.00	1.75	1 - 2	2 - 2	1 - 2	8
FR	1.14	2.57	<u>2.14</u>	1 - 2	2 - 3	1 - 3	7
SCC	1.13	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 2.5	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.25	2.00	1.88	1 - 2	2 - 2	1 - 2	8
FR	1.20	2.40	1.60	1 - 2	2 - 3	1 - 2	5
SCC	1.50	2.63	<u>1.75</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 2.6	Cast stainless steel components CF8, CF8M, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.13	<u>1.88</u>	1 - 2	1 - 3	1 - 3	8
FR	1.14	2.57	2.29	1 - 2	2 - 3	2 - 3	7
SCC	?	1.25	1.25	1 - 2	1 - 2	1 - 2	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

2 Reactor Coolant System

Crossover Leg Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 2.7	Socket welds Types 304, 308, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	2.38	2.88	1.75	2 - 3	2 - 3	1 - 2	8
SCC	1.38	2.75	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 2.8	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
SCC	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 2.9	Dissimilar metal welds Type 308, 309 External surface						
FAT	1.00	2.00	1.00	1 - 1	2 - 2	1 - 1	1
FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
PIT	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
SCC	<u>1.86</u>	3.00	<u>2.14</u>	1 - 3	3 - 3	1 - 3	7
Subgroup 2.10	Cast stainless steel piping CF8, CF8M, PWR primary water 556 to 559°F, 2250 psia For other Westinghouse plants						
FAT	1.14	2.29	<u>2.00</u>	1 - 2	2 - 3	1 - 3	7
FR	1.14	2.57	2.29	1 - 2	2 - 3	2 - 3	7
SCC	? 1.25	1.50	<u>1.50</u>	1 - 2	1 - 3	1 - 3	8
Subgroup 2.11	Clad ferritic steel piping stainless steel clad carbon steel PWR primary water, 556 to 559°F, 2250 psia For CE and B&W plants						
BAC	<u>1.13</u>	2.50	<u>2.13</u>	0 - 2	1 - 3	1 - 3	8
DEBOND	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
FAT	1.00	2.25	<u>2.13</u>	1 - 1	2 - 3	1 - 3	8
SCC	1.13	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

3 Reactor Coolant System

Hot Leg Piping

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	of Scores	
Subgroup 3.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp							
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 3.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.63	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.88	2.63	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 3.3.1	Austenitic piping weld HAZs Type 304, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.75	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	SCC	1.25	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 3.3.2	Austenitic piping weld HAZs Type 316, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.75	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	SCC	1.13	2.38	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 3.4	Austenitic to austenitic weld metals Type 308, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.75	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	FR	1.14	2.57	<u>2.14</u>	1 - 2	2 - 3	1 - 3	7
	SCC	1.25	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 3.5	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.50	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	FR	1.20	2.40	1.60	1 - 2	2 - 3	1 - 2	5
	SCC	1.50	2.63	<u>1.75</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 3.6	Cast stainless steel components CF8, CF8M, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.13	2.13	<u>1.88</u>	1 - 2	1 - 3	1 - 3	8
	FR	1.14	2.57	2.29	1 - 2	2 - 3	2 - 3	7
	SCC	?	1.25	1.25	1 - 2	1 - 2	1 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

3 Reactor Coolant System

Hot Leg Piping

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 3.7	Socket welds Types 304, 308, 316, PWR primary water 610 to 620°F, 2250 psia							
	FAT	2.38	2.88	1.75	2 - 3	2 - 3	1 - 2	8
	SCC	1.38	2.75	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 3.8	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 610 to 620°F, 2250 psia							
	FAT	1.50	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 3.9	Dissimilar metal welds Type 308, 309 External surface							
	FAT	1.00	2.00	1.00	1 - 1	2 - 2	1 - 1	1
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	SCC	<u>1.71</u>	2.86	<u>2.14</u>	1 - 3	2 - 3	1 - 3	7
Subgroup 3.10	Cast stainless steel piping CF8, CF8M, PWR primary water 610 to 620°F, 2250 psia For other Westinghouse plants							
	FAT	1.25	2.13	<u>1.88</u>	1 - 2	1 - 3	1 - 3	8
	FR	1.14	2.57	2.29	1 - 2	2 - 3	2 - 3	7
	SCC	? 1.38	1.50	<u>1.50</u>	1 - 2	1 - 3	1 - 3	8
Subgroup 3.11	Clad ferritic steel piping stainless steel clad carbon steel PWR primary water, 610 to 620°F, 2250 psia For CE and B&W plants							
	BAC	<u>1.13</u>	2.50	<u>2.13</u>	0 - 2	1 - 3	1 - 3	8
	DEBOND	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	FAT	1.00	2.25	<u>2.13</u>	1 - 1	2 - 3	1 - 3	8
	SCC	1.13	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

4 Reactor Coolant System

Pressurizer

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 4.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 4.2	Shell plates/forgings/welds/brackets etc A533 Gr.A Cl.2 or SA-508 Cl.2 PWR primary water, Up to 653°F, 2250 psia						
BAC	1.43	2.71	<u>2.43</u>	1 - 2	2 - 3	1 - 3	7
CREV	1.00	2.75	<u>2.38</u>	1 - 1	2 - 3	1 - 3	8
FAT	1.13	3.00	3.00	1 - 2	3 - 3	3 - 3	8
FR	<u>1.00</u>	2.38	<u>2.25</u>	0 - 2	1 - 3	1 - 3	8
GALV	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
SCC	1.00	2.75	2.63	1 - 1	2 - 3	2 - 3	8
Subgroup 4.3	Stainless steel cladding Types 308, 309, PWR primary water 653°F, 2250 psia						
DEBOND	1.25	2.25	<u>2.25</u>	1 - 2	1 - 3	1 - 3	8
FAT	1.00	2.13	<u>2.00</u>	1 - 1	1 - 3	1 - 3	8
PIT	0.88	2.63	2.63	0 - 1	2 - 3	2 - 3	8
SCC	1.13	2.63	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 4.4	Wrought stainless steel (Internal) Types 304, 316, PWR primary water 653°F, 2250 psia						
FAT	1.50	2.13	<u>1.63</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.67	2.67	2.33	0 - 1	2 - 3	2 - 3	3
Subgroup 4.5	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 653°F, 2250 psia						
FAT	1.75	2.00	1.88	1 - 2	2 - 2	1 - 2	8
FR	1.00	2.50	<u>1.83</u>	1 - 1	2 - 3	1 - 3	6
SCC	1.50	2.63	<u>1.75</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 4.6	Dissimilar metal welds (Internal) Alloys 82, 182, PWR primary water 653°F, 2250 psia						
FAT	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	8
FR	<u>1.43</u>	2.29	<u>2.00</u>	0 - 2	1 - 3	1 - 3	7
SCC	2.88	3.00	<u>1.88</u>	2 - 3	3 - 3	1 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

4 Reactor Coolant System

Pressurizer

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 4.7	Forged austenitic nozzles Alloy 600, PWR primary water 653°F, 2250 psia							
	FAT	1.75	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	3.00	3.00	2.00	3 - 3	3 - 3	2 - 2	8
Subgroup 4.8	Heater cladding/attachement weld Type 316, cold worked, Type 308 PWR primary water, >653°F, 2250 psia							
	FAT	1.63	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	SCC	1.88	2.00	1.13	1 - 2	2 - 2	1 - 2	8
Subgroup 4.9	Manway retaining bolts SA-193 Gr B7, PWR primary water In the event of flange leak 653°F, 2250 psia							
	BAC	1.75	2.13	2.25	1 - 2	2 - 3	2 - 3	8
	FAT	0.88	2.13	2.00	0 - 1	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.63	1.75	0 - 2	2 - 3	1 - 2	8
Subgroup 4.10.1	Austenitic stainless weld HAZs Type 304, PWR primary water 653°F, 2250 psia							
	FAT	1.63	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	SCC	1.25	2.50	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 4.10.2	Austenitic stainless weld HAZs Type 316, PWR primary water 653°F, 2250 psia							
	FAT	1.63	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	SCC	1.13	2.38	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 4.11	Dissimilar metal welds Type 308, 309 External surface							
	FAT	1.00	2.00	1.50	1 - 1	2 - 2	1 - 2	2
	FR	1.50	2.00	2.00	1 - 2	2 - 2	2 - 2	2
	SCC	1.43	2.71	<u>2.29</u>	1 - 2	2 - 3	1 - 3	7
Subgroup 4.12	Dissimilar metal welds Alloys 82, 182 External surface							
	FAT	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	2
	SCC	<u>0.88</u>	2.50	<u>2.13</u>	0 - 2	1 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

4 Reactor Coolant System

Pressurizer

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 4.13	Forged austenitic nozzles Types 304, 316, PWR primary water 653°F, 2250 psia							
	FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	0.88	2.63	2.38	0 - 1	2 - 3	2 - 3	8
Subgroup 4.14	Heater cladding/attachement weld Alloy 600, cold worked, PWR primary water >653°F, 2250 psia For CE plants							
	FAT	1.63	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	2.75	2.75	2.13	2 - 3	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

5 Reactor Coolant System

Pressurizer Spray Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 5.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 5.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.00	2.50	<u>2.25</u>	1 - 1	2 - 3	1 - 3	8
SCC	0.80	2.60	2.20	0 - 1	2 - 3	2 - 3	5
Subgroup 5.3.1	Austenitic piping weld HAZs Type 304, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 5.3.2	Austenitic piping weld HAZs Type 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.13	2.50	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 5.4	Austenitic to austenitic weld metals Type 308, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.13	2.00	1.75	1 - 2	2 - 2	1 - 2	8
FR	1.20	2.40	<u>2.00</u>	1 - 2	2 - 3	1 - 3	5
SCC	1.25	2.25	<u>2.00</u>	1 - 2	2 - 3	1 - 3	4
Subgroup 5.5	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
SCC	0.83	2.50	2.17	0 - 1	2 - 3	2 - 3	6
Subgroup 5.6	Socket welds Types 304, 308, 316, PWR primary water 556 to 559°F, 2250 psia						
FAT	2.38	2.88	1.75	2 - 3	2 - 3	1 - 2	8
SCC	1.38	2.75	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

6 Reactor Coolant System

Pressurizer Surge Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 6.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 6.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 620 to 653°F, 2250 psia						
FAT	1.63	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.83	2.67	2.17	0 - 1	2 - 3	2 - 3	6
Subgroup 6.3.1	Austenitic piping weld HAZs Type 304, PWR primary water 620 to 653°F, 2250 psia						
FAT	1.75	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.38	2.63	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 6.3.2	Austenitic piping weld HAZs Type 316, PWR primary water 620 to 653°F, 2250 psia						
FAT	1.75	2.00	1.75	1 - 2	2 - 2	1 - 2	8
SCC	1.25	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 6.4	Austenitic to austenitic weld metals Type 308, PWR primary water 620 to 653°F, 2250 psia						
FAT	1.63	2.00	1.75	1 - 2	2 - 2	1 - 2	8
FR	1.20	2.40	<u>2.00</u>	1 - 2	2 - 3	1 - 3	5
SCC	1.20	2.40	<u>2.00</u>	1 - 2	2 - 3	1 - 3	5
Subgroup 6.5	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 620 to 653°F, 2250 psia						
FAT	1.63	2.00	1.88	1 - 2	2 - 2	1 - 2	8
SCC	0.83	2.50	2.17	0 - 1	2 - 3	2 - 3	6
Subgroup 6.6	Socket welds Types 304, 308, 316, PWR primary water 620 to 653°F, 2250 psia						
FAT	2.38	2.88	1.75	2 - 3	2 - 3	1 - 2	8
SCC	1.38	2.75	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

7 Reactor Coolant System

Pressurizer Piping to PORVs

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 7.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 7.2	Wrought austenitic stainless steel piping Types 304, 316 Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	1.13	2.38	<u>1.75</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.80	2.60	2.20	0 - 1	2 - 3	2 - 3	5
Subgroup 7.3.1	Austenitic components weld HAZs Type 304, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	1.38	2.00	1.63	1 - 2	2 - 2	1 - 2	8
SCC	1.50	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 7.3.2	Austenitic components weld HAZs Type 316, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	1.38	2.00	1.63	1 - 2	2 - 2	1 - 2	8
SCC	1.38	2.38	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 7.4	Austenitic to austenitic weld metals Type 308, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	1.25	2.00	1.75	1 - 2	2 - 2	1 - 2	8
FR	1.20	2.40	<u>2.00</u>	1 - 2	2 - 3	1 - 3	5
SCC	1.25	2.25	<u>2.00</u>	1 - 2	2 - 3	1 - 3	4
Subgroup 7.5	Forged austenitic stainless steel nozzles Types 304, 316, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
SCC	0.83	2.50	2.17	0 - 1	2 - 3	2 - 3	6
Subgroup 7.6	Socket welds Types 304, 308, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia						
FAT	2.25	2.75	1.75	2 - 3	2 - 3	1 - 2	8
SCC	1.33	2.67	<u>2.17</u>	1 - 2	2 - 3	1 - 3	6

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

8 Reactor Coolant System

Pressurizer Piping to SRVs

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 8.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp							
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 8.2	Wrought austenitic stainless steel piping Types 304,316, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia							
	FAT	1.25	2.38	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.80	2.60	2.20	0 - 1	2 - 3	2 - 3	5
Subgroup 8.3.1	Austenitic piping weld HAZs Type 304, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia							
	FAT	1.25	2.00	1.63	1 - 2	2 - 2	1 - 2	8
	SCC	1.38	2.63	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 8.3.2	Austenitic piping weld HAZs Type 316, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia							
	FAT	1.25	2.00	1.63	1 - 2	2 - 2	1 - 2	8
	SCC	1.25	2.50	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 8.4	Austenitic to austenitic weld metals Type 308, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia							
	FAT	1.38	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	FR	1.20	2.40	<u>2.00</u>	1 - 2	2 - 3	1 - 3	5
	SCC	1.25	2.25	<u>2.00</u>	1 - 2	2 - 3	1 - 3	4
Subgroup 8.5	Forged austenitic stainless steel nozzles Types 304, 316, Stagnant saturated steam/condensate PWR primary water, 653°F, 2250 psia							
	FAT	1.25	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	0.83	2.50	2.17	0 - 1	2 - 3	2 - 3	6

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

9 Reactor Coolant System

Reactor Coolant Pump

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 9.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp							
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 9.2	Stainless steel (internals including weldments) Types 304, 308, 316, PWR primary water 556°F to 559°F, 2250 psia							
	FAT	1.88	2.00	1.75	1 - 2	2 - 2	1 - 2	8
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	SCC	1.25	2.25	2.13	1 - 2	2 - 3	2 - 3	8
Subgroup 9.3	Internal high strength parts (Including pump shaft) A-286, 17-4PH, X750, 403, PWR primary water 556°F to 559°F, 2250 psia							
	FAT	1.88	2.13	2.00	1 - 2	2 - 3	2 - 2	8
	FR	2.00	2.88	1.63	2 - 2	2 - 3	1 - 2	8
	SCC	2.38	2.88	2.13	2 - 3	2 - 3	2 - 3	8
Subgroup 9.4	Forged austenitic flange Type 304, PWR primary water 120°F, 2250 psia							
	FAT ?	1.00	1.88	1.63	1 - 1	1 - 2	1 - 2	8
	SCC	1.00	2.50	2.00	1 - 1	2 - 3	2 - 2	2
Subgroup 9.5	Cast stainless steel CF8, PWR primary water 556°F to 559°F, 2250 psia							
	FAT	1.33	2.00	2.00	1 - 2	2 - 2	2 - 2	3
	FR	1.29	2.71	2.29	1 - 2	2 - 3	2 - 3	7
	SCC ?	1.25	1.25	1.25	1 - 2	1 - 2	1 - 2	8
Subgroup 9.6	Main flange bolts SA-540 Gr. B24 Containment air Hot due to PWR primary water temperature							
	BAC	1.75	2.13	2.25	1 - 2	2 - 3	2 - 3	8
	FAT	0.88	2.13	2.00	0 - 1	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.50	1.63	0 - 2	2 - 3	1 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

10 Reactor Coolant System

Reactor Pressure Vessel

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	10.1	Any stainless steel components External surfaces when at <150°C Normally dry when at low temp						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	10.2	Shell plates/forgings/welds/brackets etc A533 Gr.A Cl.2 or SA-508 Cl.2, PWR primary water 556°F to 559°F, 600°F, 2250 psia						
	BAC	2.13	3.00	<u>2.13</u>	2 - 3	3 - 3	1 - 3	8
	CREEP	0.57	2.29	<u>2.43</u>	0 - 1	1 - 3	1 - 3	7
	CREV	1.00	2.50	2.17	1 - 1	2 - 3	2 - 3	6
	FAT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	FR	1.88	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	0.86	2.86	2.43	0 - 1	2 - 3	2 - 3	7
Subgroup	10.3	Stainless steel welds and cladding Types 308, 309, PWR primary water 556°F to 559°F, 600°F, 2250 psia						
	DEBOND	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	EC	?	0.86	1.86	0 - 1	1 - 2	1 - 2	7
	FAT	1.00	2.50	<u>2.38</u>	1 - 1	1 - 3	1 - 3	8
	FR	1.00	2.33	<u>2.00</u>	1 - 1	2 - 3	1 - 3	3
	SCC	1.00	2.75	<u>2.38</u>	1 - 1	2 - 3	1 - 3	8
Subgroup	10.4	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 653°F, 2250 psia						
	FAT	1.75	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	FR	1.00	2.50	<u>2.00</u>	1 - 1	2 - 3	1 - 3	4
	SCC	1.50	2.88	<u>1.50</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	10.5	Forged austenitic nozzles Types 304, 316, PWR primary water 653°F, 2250 psia						
	FAT	1.25	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	<u>1.40</u>	2.60	2.00	1 - 3	2 - 3	2 - 2	5

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

10 Reactor Coolant System

Reactor Pressure Vessel

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	of Scores	
Subgroup	10.6	Closure studs/nuts SA-540 Gr B23, Cl.3, PWR primary water In the event of flange leak 556°F to 559°F, 2250 psia						
	EC	<u>1.75</u>	2.00	<u>2.00</u>	0 - 2	1 - 3	1 - 3	8
	FAT	0.88	2.13	2.00	0 - 1	2 - 3	2 - 2	8
	SCC	0.88	2.75	2.13	0 - 1	2 - 3	2 - 3	8
Subgroup	10.7	Cast stainless steel components CF8, PWR primary water 556°F to 559°F, 2250 psia						
	FAT	1.25	2.25	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	FR	1.00	2.86	2.43	1 - 1	2 - 3	2 - 3	7
	SCC	?	1.13	1.13	1 - 2	1 - 2	1 - 2	8
Subgroup	10.8	Dissimilar metal welds (Internal) Alloys 82, 182, PWR primary water 653°F, 2250 psia						
	FAT	2.13	2.25	<u>2.00</u>	2 - 3	2 - 3	1 - 3	8
	FR	<u>1.29</u>	2.29	<u>2.00</u>	0 - 2	1 - 3	1 - 3	7
	SCC	2.88	3.00	<u>2.13</u>	2 - 3	3 - 3	1 - 3	8
Subgroup	10.9	Forged austenitic nozzles Alloy 600, PWR primary water 653°F, 2250 psia						
	FAT	1.33	2.00	2.00	1 - 2	2 - 2	2 - 2	3
	SCC	<u>2.75</u>	3.00	2.25	1 - 3	3 - 3	2 - 3	8
Subgroup	10.10	CRDM Housing and canopy SS seals Type 304, 308, PWR Primary water 200°F to 600°F, 2250 psia (normally stagnant)						
	CREV	1.25	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
	FAT	1.50	2.75	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.88</u>	2.63	<u>2.13</u>	1 - 3	2 - 3	1 - 3	8
Subgroup	10.11	Dissimilar metal welds Type 308, 309 External surface						
	SCC	2.00	3.00	1.50	2 - 2	3 - 3	1 - 2	2
Subgroup	10.12	Dissimilar metal welds Alloys 82, 182 External surface						
	SCC	1.00	3.00	2.00	1 - 1	3 - 3	2 - 2	1

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

11 Reactor Coolant System

Steam Generator

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	11.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	11.2	Shell plates/forgings/welds/brackets etc A533 Gr.A Cl.2, SA-508 Cl.2A, SA-516 PWR primary water, 544°F to 620°F, 1000 or 2250 psia						
	BAC	<u>1.13</u>	2.63	2.25	0 - 2	2 - 3	2 - 3	8
	CREV	1.00	3.00	2.00	1 - 1	3 - 3	2 - 2	1
	FAC	<u>0.88</u>	2.50	2.50	0 - 3	2 - 3	2 - 3	8
	FAT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.63	<u>2.25</u>	0 - 2	2 - 3	1 - 3	8
	SCC	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
Subgroup	11.3	Low alloy steel nozzles/welds SA-216 Gr. WCC, PWR primary water 556°F to 620°F, 2250 psia						
	BAC	<u>0.75</u>	2.63	2.25	0 - 2	2 - 3	2 - 3	8
	CREV	0.75	2.63	2.50	0 - 1	2 - 3	2 - 3	8
	FAT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	SCC	1.13	2.63	2.50	1 - 2	2 - 3	2 - 3	8
Subgroup	11.4	Stainless cladding - Channel head Types 308, 309, PWR primary water 610°F to 620°F, 2250 psia						
	DEBOND	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	FAT	1.63	2.63	<u>2.63</u>	1 - 2	1 - 3	1 - 3	8
	FR	<u>0.86</u>	2.71	2.29	0 - 2	2 - 3	2 - 3	7
	PIT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	SCC	1.38	2.75	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	11.5	SG tubes/roll transitions/U-bends/sleeves/plugs Alloy 600 MA, PWR primary water 556°F to 620°F, 2250 psia						
	FAT	<u>1.88</u>	2.13	<u>2.00</u>	1 - 3	2 - 3	1 - 3	8
	SCC	2.38	3.00	<u>2.50</u>	2 - 3	3 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

11 Reactor Coolant System

Steam Generator

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 11.6	SG tubes secondary side including crevices Alloy 600 MA, PWR secondary water 544°F to 620°F, 1000 psia						
FAT	1.50	2.38	2.38	1 - 2	2 - 3	2 - 3	8
PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
SCC	<u>2.38</u>	2.63	2.25	1 - 3	2 - 3	2 - 3	8
WEAR	2.13	3.00	2.25	2 - 3	3 - 3	2 - 3	8
Subgroup 11.7	Dissimilar metal welds (Internal) Type 308, 309, PWR primary water 556°F to 620°F, 2250 psia						
FAT	1.75	2.00	1.88	1 - 2	2 - 2	1 - 2	8
FR	1.29	2.57	<u>1.86</u>	1 - 2	2 - 3	1 - 3	7
SCC	1.50	2.75	<u>1.75</u>	1 - 2	2 - 3	1 - 3	8
Subgroup 11.8	Forged austenitic nozzles Type 316, PWR primary water 556°F to 620°F, 2250 psia						
FAT	1.25	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
Subgroup 11.9	Channel head divider plate Alloy 600, PWR primary water 556°F to 620°F, 2250 psia						
FAT	1.25	2.13	<u>1.88</u>	1 - 2	2 - 3	1 - 3	8
SCC	2.25	2.88	<u>2.13</u>	2 - 3	2 - 3	1 - 3	8
Subgroup 11.10	Primary and Secondary Manways SA-553 Gr. A, Containment air In the event of flange leak 544°F to 620°F, 1000 or 2250 psia						
BAC	1.75	2.25	2.13	1 - 2	2 - 3	2 - 3	8
FAT	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
SCC	1.00	2.88	2.25	1 - 1	2 - 3	2 - 3	8
Subgroup 11.11	Stainless cladding - Channel head Alloys 82, 52, PWR primary water 610°F to 620°F, 2250 psia						
DEBOND	2.00	3.00	2.00	2 - 2	3 - 3	2 - 2	1
FR	<u>1.00</u>	2.43	<u>2.00</u>	0 - 2	1 - 3	1 - 3	7
SCC	1.50	2.88	<u>2.63</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

11 Reactor Coolant System

Steam Generator

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	11.12	SG tubes/roll transitions/U-bends/sleeves/plugs Alloy 600 TT, PWR primary water 556°F to 620°F, 2250 psia						
	FAT	1.63	2.25	2.25	1 - 2	2 - 3	2 - 3	8
	SCC	2.13	2.88	2.75	2 - 3	2 - 3	2 - 3	8
Subgroup	11.13	SG tubes/roll transitions/U-bends/sleeves/plugs Alloy 690 TT, PWR primary water 556°F to 620°F, 2250 psia						
	FAT	1.50	2.25	2.25	1 - 2	2 - 3	2 - 3	8
	SCC	1.38	2.88	<u>2.63</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	11.14	SG tubes secondary side including crevices Alloy 600 TT, PWR secondary water 544°F to 620°F, 1000 psia						
	FAT	1.38	2.50	2.50	1 - 2	2 - 3	2 - 3	8
	PIT	1.13	3.00	2.75	1 - 2	3 - 3	2 - 3	8
	SCC	2.25	2.88	2.25	2 - 3	2 - 3	2 - 3	8
	WEAR	2.13	3.00	2.38	2 - 3	3 - 3	2 - 3	8
Subgroup	11.15	SG tubes secondary side including crevices Alloy 690 TT, PWR secondary water 544°F to 620°F, 1000 psia						
	FAT	1.25	2.50	2.38	1 - 2	2 - 3	2 - 3	8
	PIT	1.00	2.75	<u>2.63</u>	1 - 1	2 - 3	1 - 3	8
	SCC	1.13	2.75	<u>2.13</u>	1 - 2	2 - 3	1 - 3	8
	WEAR	1.63	2.63	2.13	1 - 2	2 - 3	2 - 3	8
Subgroup	11.16	Dissimilar metal welds (Internal) Alloys 82, 182, PWR primary water 556°F to 620°F, 2250 psia						
	FAT	1.88	2.25	2.25	1 - 2	2 - 3	2 - 3	8
	FR	<u>1.43</u>	2.43	<u>1.86</u>	0 - 2	1 - 3	1 - 3	7
	SCC	2.88	3.00	<u>2.13</u>	2 - 3	3 - 3	1 - 3	8
Subgroup	11.17	Dissimilar metal welds Type 308, 309 External surface						
	FAT	1.00	2.00	1.50	1 - 1	2 - 2	1 - 2	2
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	PIT	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	SCC	1.50	2.88	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

11 Reactor Coolant System

Steam Generator

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	11.18	Dissimilar metal welds Alloys 82, 182 External surface						
	FAT	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	SCC	0.63	2.63	<u>2.00</u>	0 - 1	1 - 3	1 - 3	8
Subgroup	11.19	Channel head divider plate Alloy 690, PWR primary water 556°F to 620°F, 2250 psia						
	FAT	1.13	2.25	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	FR	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
	SCC	1.00	2.63	<u>2.25</u>	1 - 1	2 - 3	1 - 3	8
Subgroup	11.20	Tube supports and/or preheater baffles Carbon steel, drilled holes, PWR secondary water 544°F to 620°F, 1000 psia						
	CREV	<u>1.50</u>	2.88	2.75	1 - 3	2 - 3	2 - 3	8
	FAC	<u>2.13</u>	2.63	2.38	1 - 3	2 - 3	2 - 3	8
	FR	0.71	2.71	2.29	0 - 1	2 - 3	2 - 3	7
	SCC	1.25	2.63	2.25	1 - 2	2 - 3	2 - 3	8
Subgroup	11.21	Tube supports Stainless steel, Line contact/drilled holes PWR secondary water, 544°F to 620°F, 1000 psia						
	CREV	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
	SCC	1.00	2.63	2.38	1 - 1	2 - 3	2 - 3	8
Subgroup	11.22	SG tubes/roll transitions/sleeves/plugs Alloy 600, SA and sensitized, PWR primary 556°F to 620°F, 2250 psia For B&W OTSGs						
	FAT	1.50	2.50	2.38	1 - 2	2 - 3	2 - 3	8
	SCC	<u>2.13</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
Subgroup	11.23	SG tubes secondary side including crevices Alloy 600, SA and sensitized PWR secondary water and superheated steam 544°F to 620°F, 1000 psia For B&W OTSGs						
	FAT	1.38	2.63	2.50	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
	SCC	2.88	3.00	2.75	2 - 3	3 - 3	2 - 3	8
	WEAR	<u>1.88</u>	3.00	2.50	1 - 3	3 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

12 Reactor Coolant System

Reactor Vessel Internals

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	12.1	Austenitic stainless steel plates/tubes Type 304, PWR primary water, ≤0.5 dpa (low fluence) 556°F to 620 °F, 2250 psia						
	FAT	1.00	2.86	<u>2.71</u>	1 - 1	2 - 3	1 - 3	7
	SCC	0.88	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	12.2	Austenitic weld HAZs Types 304, PWR primary water, ≤0.5 dpa (low fluence) 556°F to 620 °F, 2250 psia						
	FAT	1.00	2.38	<u>2.13</u>	1 - 1	2 - 3	1 - 3	8
	SCC	1.13	2.75	<u>2.63</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	12.3	Austenitic to austenitic weld metals Type 308, PWR primary water, ≤0.5 dpa (low fluence) 556°F to 620 °F, 2250 psia						
	FAT	1.38	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	FR	1.00	2.25	1.75	1 - 1	2 - 3	1 - 2	4
	SCC	1.00	2.00	1.50	1 - 1	2 - 2	1 - 2	2
Subgroup	12.4	Cold worked austenitic stainless steel Type 316, PWR primary water, ≤0.5 dpa (low fluence) 556°F to 620 °F, 2250 psia						
	CREEP	<u>1.25</u>	2.25	2.13	1 - 3	2 - 3	2 - 3	8
	FAT	1.63	2.25	<u>1.63</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.71</u>	2.57	2.29	0 - 3	2 - 3	2 - 3	7
Subgroup	12.5	Cast austenitic SS components PWR primary water 556°F to 620 °F, 2250 psia						
	FAT	1.14	2.29	<u>1.86</u>	1 - 2	2 - 3	1 - 3	7
	FR	1.38	2.88	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
	SCC	?	1.13	1.13	1 - 2	1 - 2	1 - 2	8
Subgroup	12.6	Austenitic solution annealed holdown spring Type 304, PWR primary water 600°F, 2250 psia						
	CREEP	2.00	2.86	2.00	2 - 2	2 - 3	2 - 2	7
	FAT	1.17	2.33	2.00	1 - 2	2 - 3	2 - 2	6
	SCC	<u>1.00</u>	2.83	2.67	0 - 2	2 - 3	2 - 3	6

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

12 Reactor Coolant System

Reactor Vessel Internals

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 12.7	High strength fasteners/springs Alloys X750, 718, PWR primary water 556°F to 620°F, 2250 psia						
CREEP	<u>1.86</u>	2.86	2.14	1 - 3	2 - 3	2 - 3	7
FR	<u>1.50</u>	2.00	<u>1.83</u>	0 - 2	1 - 3	1 - 3	6
SCC	2.00	2.86	2.00	2 - 2	2 - 3	2 - 2	7
Subgroup 12.8	Austenitic stainless steel plates/tubes Type 304, PWR primary water, >0.5 dpa (high fluence) 556°F to 620 °F, 2250 psia						
CREEP	2.00	3.00	2.00	2 - 2	3 - 3	2 - 2	1
FAT	1.57	2.71	2.71	1 - 2	2 - 3	2 - 3	7
FR	1.71	2.57	<u>2.43</u>	1 - 2	1 - 3	1 - 3	7
SCC	<u>1.71</u>	2.71	2.57	1 - 3	2 - 3	2 - 3	7
SW	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	8
Subgroup 12.9	Austenitic weld HAZs Types 304, PWR primary water, >0.5 dpa (high fluence) 556°F to 620 °F, 2250 psia						
FAT	1.29	2.14	<u>1.86</u>	1 - 2	2 - 3	1 - 3	7
FR	1.33	2.67	<u>2.67</u>	1 - 2	1 - 3	1 - 3	6
SCC	<u>1.57</u>	2.43	<u>1.86</u>	1 - 3	2 - 3	1 - 3	7
SW	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	8
Subgroup 12.10	Austenitic to austenitic weld metal components Type 308, PWR primary water, >0.5 dpa (high fluence) 556°F to 620 °F, 2250 psia						
FAT	1.57	2.00	1.71	1 - 2	2 - 2	1 - 2	7
FR	1.29	2.57	<u>2.29</u>	1 - 2	1 - 3	1 - 3	7
SCC	<u>1.71</u>	2.14	<u>1.86</u>	1 - 3	2 - 3	1 - 3	7
SW	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	8
Subgroup 12.11	Cold worked austenitic stainless steel components Type 316, PWR primary water, >0.5 dpa (high fluence) 556°F to 620 °F, 2250 psia						
CREEP	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	1
FAT	1.71	2.00	1.57	1 - 2	2 - 2	1 - 2	7
FR	1.29	2.43	<u>2.29</u>	1 - 2	1 - 3	1 - 3	7
IC	2.86	2.71	1.86	2 - 3	1 - 3	1 - 2	7
SCC	3.00	3.00	2.14	3 - 3	3 - 3	2 - 3	7
SW	2.14	2.00	2.00	2 - 3	2 - 2	2 - 2	7

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

12 Reactor Coolant System

Reactor Vessel Internals

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	12.12	High strength baffle bolts Type A286, alloy X750, >0.5 dpa (high fluence) PWR primary water, 556°F to 620 °F, 2250 psia For B&W RVIs						
	FAT	1.67	2.17	1.83	1 - 2	2 - 3	1 - 2	6
	FR	1.67	2.17	<u>1.67</u>	1 - 2	1 - 3	1 - 3	6
	IC	2.50	2.83	2.00	2 - 3	2 - 3	2 - 2	6
	SCC	2.50	2.83	2.00	2 - 3	2 - 3	2 - 2	6
	SW	2.17	2.00	2.00	2 - 3	2 - 2	2 - 2	6

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

13 Reactor Coolant System

Stop Valve Loop Bypass Piping

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	of Scores	
Subgroup	13.1	All stainless steel components External surfaces when at <150°C Containment air Normally dry when at low temp						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	13.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 600°F, 2250 psia						
	FAT	1.13	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.00</u>	2.75	<u>2.38</u>	0 - 2	2 - 3	1 - 3	8
Subgroup	13.3.1	Austenitic weld HAZs Type 304, PWR primary water 600°F, 2250 psia						
	FAT	1.13	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	1.25	2.75	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	13.3.2	Austenitic weld HAZs Type 316, PWR primary water 600°F, 2250 psia						
	FAT	1.13	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	SCC	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	13.4	Austenitic to austenitic weld metals Type 308, PWR primary water 600°F, 2250 psia						
	FAT	1.38	2.00	1.88	1 - 2	2 - 2	1 - 2	8
	FR	1.14	2.57	<u>2.00</u>	1 - 2	2 - 3	1 - 3	7
	SCC	1.13	2.50	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	13.5	Cast austenitic SS components PWR primary water 600 °F, 2250 psia						
	FAT	1.14	2.29	2.00	1 - 2	2 - 3	2 - 2	7
	FR	1.25	2.88	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	?	1.13	1.13	1 - 2	1 - 2	1 - 2	8
Subgroup	13.6	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 600°F, 2250 psia						
	FAT	<u>1.50</u>	2.00	1.75	1 - 3	2 - 2	1 - 2	8
	SCC	1.00	2.50	2.00	1 - 1	2 - 3	2 - 2	4

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

14 Emergency Core Cooling Systems

RWST Header Piping

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	14.1	All stainless steel components External surfaces Auxiliary building air Ambient Temp, 15 psia						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	14.2	Wrought austenitic stainless steel piping Types 304, 316 Borated demin water (usually stagnant) 100°F, 15 psia						
	FAT	0.88	2.75	<u>2.50</u>	0 - 1	2 - 3	1 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	14.3	Austenitic weld HAZs Types 304, 316 Borated demin water (usually stagnant) 100°F, 15 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	1.50	3.00	2.88	1 - 2	3 - 3	2 - 3	8
Subgroup	14.4	Austenitic to austenitic weld metals Type 308 Borated demin water (usually stagnant) 100°F, 15 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.57	3.00	2.71	0 - 1	3 - 3	2 - 3	7
Subgroup	14.5	Forged austenitic stainless steel nozzles Types 304, 316 Borated demin water (usually stagnant) 100°F, 15 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.57	2.86	2.71	0 - 1	2 - 3	2 - 3	7
Subgroup	14.6	Socket welds Type 304 Borated demin water (usually stagnant) 100°F, 15 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8
	SCC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

15 Emergency Core Cooling Systems

CVCS Pump Suction Piping

		Average			Range			Number
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup	15.1	All stainless steel components External surfaces Auxiliary building air Ambient, 15 psia						
	PIT	<u>1.25</u>	3.00	2.88	1 - 3	3 - 3	2 - 3	8
	SCC	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
Subgroup	15.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water 100-200°F, 15-50 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>0.75</u>	3.00	2.75	0 - 2	3 - 3	2 - 3	8
Subgroup	15.3	Austenitic weld HAZs Types 304, 316, Borated demin water 100-200°F, 15-50 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	15.4	Austenitic to austenitic weld metals Type 308, Borated demin water 100-200°F, 15-50 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
Subgroup	15.5	Forged austenitic stainless steel nozzles Types 304, 316, Borated demin water 100-200°F, 15-50 psia						
	FAT	1.00	2.86	2.14	1 - 1	2 - 3	2 - 3	7
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
Subgroup	15.6	Socket welds Type 304, Borated demin water 100-200°F, 15-50 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

16 Emergency Core Cooling Systems

SI Pump Suction Piping

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	16.1	All stainless steel components External surfaces Auxiliary building air Ambient, 15-100 psia						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	16.2	Wrought austenitic stainless steel piping Types 304, 316 Borated demin water (normally stagnant) Ambient, 15-100 psia						
	FAT	0.88	2.75	<u>2.50</u>	0 - 1	2 - 3	1 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	16.3	Austenitic weld HAZs Types 304, 316 Borated demin water (normally stagnant) Ambient, 15-100 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>1.38</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	16.4	Austenitic to austenitic weld metals Type 308 Borated demin water (normally stagnant) Ambient, 15-100 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.63	0 - 1	2 - 3	2 - 3	8
Subgroup	16.5	Forged austenitic stainless steel nozzles Types 304, 316 Borated demin water (normally stagnant) Ambient, 15-100 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.63	0 - 1	2 - 3	2 - 3	8
Subgroup	16.6	Socket welds Type 304 Borated demin water (normally stagnant) Ambient, 15-100 psia						
	FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

17 Emergency Core Cooling Systems

RHR Pump Suction Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 17.1	All stainless steel components External surfaces Auxiliary building air 100°F to 350°F, 15 to 400 psia						
PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 17.2	Wrought austenitic stainless steel piping Types 304, 316 Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
FAT	<u>1.00</u>	2.75	<u>2.50</u>	0 - 2	2 - 3	1 - 3	8
SCC	<u>0.75</u>	3.00	2.75	0 - 2	3 - 3	2 - 3	8
Subgroup 17.3	Austenitic weld HAZs Types 304, 316 Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup 17.4	Austenitic to austenitic weld metals Type 308 Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
SCC	<u>0.75</u>	3.00	2.75	0 - 2	3 - 3	2 - 3	8
Subgroup 17.5	Cast austenitics Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
FAT	<u>1.00</u>	2.75	2.13	0 - 2	2 - 3	2 - 3	8
FR	<u>1.00</u>	2.57	2.29	0 - 2	2 - 3	2 - 3	7
SCC	<u>0.86</u>	2.14	<u>2.00</u>	0 - 2	1 - 3	1 - 3	7
Subgroup 17.6	Forged austenitic stainless steel nozzles Types 304, 316 Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
SCC	<u>0.75</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 17.7	Socket welds Type 304 Borated demin water (normally stagnant) Ambient, <100 psia						
FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

18 Emergency Core Cooling Systems

Accumulator Piping to RCS Cold Leg

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	18.1	All stainless steel components External surfaces Containment air 100°F to 150°F, 640 psia (inside condition)						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	18.2	Wrought austenitic stainless steel piping Types 304, 316 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	0.88	2.75	<u>2.50</u>	0 - 1	2 - 3	1 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	18.3	Austenitic weld HAZs Types 304, 316 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	18.4	Austenitic to austenitic weld metals Type 308 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.63	0 - 1	3 - 3	2 - 3	8
Subgroup	18.5	Dissimilar metal welds Type 308, 309, Alloys 82, 182 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	<u>1.00</u>	2.25	2.00	0 - 2	2 - 3	2 - 2	8
	FR	<u>1.14</u>	2.00	<u>1.86</u>	0 - 2	1 - 3	1 - 3	7
	MIC	1.00	2.00	<u>2.00</u>	1 - 1	1 - 3	1 - 3	8
	SCC	<u>1.25</u>	2.75	<u>2.25</u>	0 - 2	2 - 3	1 - 3	8
Subgroup	18.6	Forged austenitic stainless steel nozzles Types 304, 316 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.13	1 - 1	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.63	0 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

18 Emergency Core Cooling Systems

Accumulator Piping to RCS Cold Leg

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	18.7	Socket welds Type 304 Borated demin water (normally stagnant) 100°F to 150°F, 640 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8
Subgroup	18.8	Dissimilar metal welds Type 308, 309, Alloys 82/182 External surface						
	FR	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	1
	SCC	1.75	2.88	2.13	1 - 2	2 - 3	2 - 3	8
Subgroup	18.9	All stainless steel components External surfaces when at <150C Containment air, Normally dry when at low temp 600°F, 2250 psia (inside condition)						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	18.10.1	Austenitic weld HAZs Type 304, PWR primary water 600°F, 2250 psia						
	FAT	1.38	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.50</u>	2.88	<u>2.63</u>	1 - 3	2 - 3	1 - 3	8
Subgroup	18.10.2	Austenitic weld HAZs Type 316, PWR primary water 600°F, 2250 psia						
	FAT	1.38	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.38</u>	2.75	<u>2.63</u>	1 - 3	2 - 3	1 - 3	8
Subgroup	18.11	Austenitic to austenitic weld metals Type 308, PWR primary water 600°F, 2250 psia						
	FAT	1.50	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	FR	<u>1.00</u>	2.57	<u>2.00</u>	0 - 2	2 - 3	1 - 3	7
	SCC	1.14	2.86	<u>2.29</u>	1 - 2	2 - 3	1 - 3	7
Subgroup	18.12	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 600°F, 2250 psia						
	FAT	<u>1.63</u>	2.13	<u>1.88</u>	1 - 3	2 - 3	1 - 3	8
	SCC	<u>1.13</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

18 Emergency Core Cooling Systems

Accumulator Piping to RCS Cold Leg

Subgroup	18.13	Dissimilar metal welds (Internal) Type 308, 309, Alloys 82, 182 PWR primary water, 600°F, 2250 psia For CE and B&W plants	Average			Range			Number of Scores
			Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
FAT			1.75	2.13	1.88	1 - 2	2 - 3	1 - 2	8
FR	?		1.00	1.50	1.00	1 - 1	1 - 2	1 - 1	2
SCC			2.50	3.00	<u>1.75</u>	2 - 3	3 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

19 Emergency Core Cooling Systems

SI/RHR Piping to RCS Hot Leg

		Average			Range			Number
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup	19.1	All stainless steel components External surfaces Containment/ Auxiliary building air 100°F to 350°F, 15 to 400 psia (inside condition)						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	19.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
	FAT	<u>1.00</u>	2.75	<u>2.50</u>	0 - 2	2 - 3	1 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	19.3	Austenitic weld HAZs Types 304, 316, Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
	FAT	0.88	2.88	2.25	0 - 1	2 - 3	2 - 3	8
	SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	19.4	Austenitic to austenitic weld metals Type 308, Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	19.5	Forged austenitic stainless steel nozzles Types 304, 316, Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
	FAT	0.88	2.88	2.13	0 - 1	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup	19.6	Socket welds Type 304, Borated demin water (normally stagnant) 100°F to 350°F, 15 to 400 psia						
	FAT	<u>1.75</u>	2.63	2.00	0 - 2	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup	19.7	All stainless steel components External surfaces when at <150C Containment air (Normally dry when at low temp) 600°F , 2250 psia (inside condition)						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

19 Emergency Core Cooling Systems

SI/RHR Piping to RCS Hot Leg

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	19.8.1	Austenitic weld HAZs Type 304, PWR primary water 600°F , 2250 psia						
	FAT	1.38	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	
	SCC	<u>1.50</u>	2.75	<u>2.50</u>	1 - 3	2 - 3	1 - 3	
Subgroup	19.8.2	Austenitic weld HAZs Type 316, PWR primary water 600°F , 2250 psia						
	FAT	1.38	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	
	SCC	<u>1.38</u>	2.63	<u>2.50</u>	1 - 3	2 - 3	1 - 3	
Subgroup	19.9	Austenitic to austenitic weld metals Type 308, PWR primary water 600°F , 2250 psia						
	FAT	1.50	2.13	<u>2.00</u>	1 - 2	2 - 3	1 - 3	
	FR	1.14	2.43	<u>2.00</u>	1 - 2	2 - 3	1 - 3	
	SCC	1.25	2.50	<u>2.13</u>	1 - 2	2 - 3	1 - 3	
Subgroup	19.10	Dissimilar metal welds (Internal) Type 308, 309, Alloys 82, 182 PWR primary water, 600°F , 2250 psia For CE and B&W plants Covered in RCS groups						
	FAT	2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	
	FR	1.50	1.50	1.50	1 - 2	1 - 2	1 - 2	
	SCC	2.75	2.88	<u>1.88</u>	2 - 3	2 - 3	1 - 3	
Subgroup	19.11	Forged austenitic stainless steel nozzles Types 304, 316, PWR primary water 600°F , 2250 psia						
	FAT	<u>1.63</u>	2.13	<u>1.88</u>	1 - 3	2 - 3	1 - 3	
	SCC	<u>1.25</u>	2.50	2.25	0 - 2	2 - 3	2 - 3	

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

20 Emergency Core Cooling Systems

RHR Pump Discharge Piping

		Average	Range			Number		
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup	20.1	All stainless steel components External surfaces Auxiliary building air 100°F to 350°F, 15 to 400 psia (inside condition)						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	20.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.25	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	20.3	Austenitic weld HAZs Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	<u>1.25</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	20.4	Austenitic to austenitic weld metals Type 308, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	20.5	Forged austenitic stainless steel nozzles Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup	20.6	Socket welds Type 304, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8
	SCC	<u>0.88</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

21 Emergency Core Cooling Systems

RHR Piping to RCS Cold Leg

		Average			Range			Number
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup	21.1	All stainless steel components External surfaces Auxiliary building air 100°F to 350°F, 15 to 400 psia (inside condition)						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	21.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.25	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	21.3	Austenitic weld HAZs Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	21.4	Austenitic to austenitic weld metals Type 308, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	21.5	Forged austenitic stainless steel nozzles Types 304, 316, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.63	2.88	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup	21.6	Socket welds Type 304, Borated demin water 100°F to 350°F, 15 to 400 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	2 - 2	8
	SCC	<u>0.88</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

22 Emergency Core Cooling Systems

CVCS Piping to RCS Cold Leg

		Average			Range		Number
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	of Scores
Subgroup 22.1	All stainless steel components External surfaces Containment/Auxiliary building air 200°F, 2250 psia (inside condition)						
	PIT	1.13	3.00	2.88	1 - 2	3 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	8
Subgroup 22.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water 200°F, 2250 psia						
	FAT	1.25	2.63	<u>2.50</u>	1 - 2	2 - 3	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	8
Subgroup 22.3	Austenitic weld HAZs Types 304, 316, Borated demin water 200°F, 2250 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	8
	SCC	<u>1.50</u>	3.00	2.88	0 - 2	3 - 3	8
Subgroup 22.4	Austenitic to austenitic weld metals Type 308, Borated demin water 200°F, 2250 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	8
	SCC	<u>0.75</u>	3.00	2.63	0 - 2	3 - 3	8
Subgroup 22.5	Austenitic to austenitic weld metals Type 308, PWR primary water 560°F, 2250 psia						
	FAT	1.13	2.25	<u>2.00</u>	1 - 2	2 - 3	8
	FR	1.00	2.57	<u>2.14</u>	1 - 1	2 - 3	7
	SCC	1.13	2.75	<u>2.25</u>	1 - 2	2 - 3	8
Subgroup 22.6	Forged austenitic stainless steel nozzles Types 304, 316, Borated demin water 200°F, 2250 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	8
	SCC	<u>0.75</u>	2.88	2.75	0 - 2	2 - 3	8
Subgroup 22.7	Socket welds Type 304, Borated demin water 200°F, 2250 psia						
	FAT	2.00	2.63	2.00	2 - 2	2 - 3	8
	SCC	<u>0.88</u>	2.88	2.75	0 - 2	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

22 Emergency Core Cooling Systems

CVCS Piping to RCS Cold Leg

			Average			Range			Number of Scores
Subgroup			Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
22.8	Dissimilar metal welds (Internal) Type 308, 309, Alloys 82, 182 PWR primary water, 600°F, 2250 psia For CE and B&W plants								
	FAT		2.00	2.00	2.00	2 - 2	2 - 2	2 - 2	8
	FR	?	1.67	1.67	1.67	1 - 2	1 - 2	1 - 2	3
	SCC		2.88	3.00	<u>1.88</u>	2 - 3	3 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

23 Emergency Core Cooling Systems

Safety Injection Pump Discharge Piping

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	23.1	All stainless steel components External surfaces Auxiliary building air 100°F, 1500-1700 psia (inside condition)						
	PIT	1.00	3.00	2.86	1 - 1	3 - 3	2 - 3	7
	SCC	1.00	3.00	2.86	1 - 1	3 - 3	2 - 3	7
Subgroup	23.2	Wrought austenitic stainless steel piping Types 304, 316, Borated demin water 100°F, 1500-1700 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	MIC	1.00	2.13	2.00	1 - 1	2 - 3	2 - 2	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	23.3	Austenitic weld HAZs Types 304, 316, Borated demin water 100°F, 1500-1700 psia						
	FAT	1.13	2.75	2.25	1 - 2	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.00	1 - 1	2 - 3	2 - 2	8
	SCC	<u>1.38</u>	3.00	2.88	0 - 2	3 - 3	2 - 3	8
Subgroup	23.4	Austenitic to austenitic weld metals Type 308, Borated demin water 100°F, 1500-1700 psia						
	FAT	1.13	2.63	2.25	1 - 2	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.00	1 - 1	2 - 3	2 - 2	8
	SCC	<u>0.88</u>	3.00	2.75	0 - 2	3 - 3	2 - 3	8
Subgroup	23.5	Forged austenitic stainless steel parts Types 304, 316, Borated demin water 100°F, 1500-1700 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	MIC	1.00	2.13	2.00	1 - 1	2 - 3	2 - 2	8
	SCC	<u>0.75</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup	23.6	Socket welds Type 304, Borated demin water 100°F, 1500-1700 psia						
	FAT	1.88	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

24 Steam & Power Conversion System

Main Steam

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 24.1	All carbon and low-alloy steel components External surfaces (normally dry) Containment/Turbine building air 445-530°F, 1035-1235 psia (inside condition)							
	BAC	1.25	2.50	2.50	1 - 2	2 - 3	2 - 3	8
	PIT	1.13	2.88	2.75	1 - 2	2 - 3	2 - 3	8
	SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 24.2	All carbon steel components and weldments Saturated steam (<0.25% moisture) 445-530°F, 1035-1235 psia							
	FAC	2.25	2.88	3.00	2 - 3	2 - 3	3 - 3	8
	FAT	1.25	2.38	2.38	1 - 2	2 - 3	2 - 3	8
	SCC	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
Subgroup 24.3	Low alloy steel components Saturated steam (<0.25% moisture) 445-530°F, 1035-1235 psia							
	FAC	<u>1.38</u>	2.88	3.00	1 - 3	2 - 3	3 - 3	8
	SCC	1.00	2.63	2.63	1 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

25 Steam & Power Conversion System

Main Feedwater System

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	25.1	All carbon steel components/welds/HAZ External surfaces Containment or valve room, Some plants outdoor 400°F max (external surface), 1200psia (inside condition)						
	FAT	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7
	PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	SCC	0.88	2.75	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	25.2	I-690 forging and associated weld/HAZ External surfaces Containment air 400°F max (external surface), 1200psia (inside condition)						
	FR	<u>0.57</u>	2.86	2.43	0 - 2	2 - 3	2 - 3	7
	PIT	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	25.3	I-690 forging and associated weld/HAZ Demineralized pH 9-10 water 450°F, 1200 psia						
	FAT	1.25	2.13	<u>2.13</u>	1 - 2	1 - 3	1 - 3	8
	FR	<u>0.57</u>	2.71	<u>2.14</u>	0 - 2	2 - 3	1 - 3	7
	SCC	<u>1.00</u>	2.63	2.25	0 - 2	2 - 3	2 - 3	8
Subgroup	25.4	All carbon steel components/welds/HAZ Demineralized pH 9-10 water 450°F, 1200 psia						
	FAC	2.50	2.88	2.88	2 - 3	2 - 3	2 - 3	8
	FAT	<u>2.00</u>	2.50	2.63	1 - 3	2 - 3	2 - 3	8
	SCC	1.38	2.63	2.63	1 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

26 Steam & Power Conversion System

Auxiliary Feedwater System

		Average				Range		
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	Number of Scores
Subgroup 26.1	All carbon steel components/welds/HAZ External surfaces Auxiliary building air 100°F max, 1200psia (inside condition)							
	CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	PIT	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
	SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 26.2	All carbon steel components/welds/HAZ Condensate Water 100°F, 1200 psia							
	CREV	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	FAT	1.50	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.75	2.63	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.88	2.88	1 - 2	2 - 3	2 - 3	8
	SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

27 Steam & Power Conversion System

Steam Generator Blowdown

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup 27.1	All carbon steel components/welds/HAZ External surfaces Containment/valve room air 400°F max (external surface), 1200 psia (inside condition)							
	MIC	0.25	2.88	2.75	0 - 1	2 - 3	2 - 3	8
	PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 27.2	All carbon steel components/welds/HAZ Saturated water from Steam Generator 550°F, 1200 psia							
	FAC	<u>2.25</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
	FAT	<u>1.88</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
	SCC	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
Subgroup 27.3	All carbon steel components/welds/HAZ Wet Layup Line, Demin water 60-100°F, 100 psia							
	FAC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	MIC	1.43	2.86	2.86	1 - 2	2 - 3	2 - 3	7
	PIT	1.43	2.86	2.86	1 - 2	2 - 3	2 - 3	7
	SCC	<u>1.00</u>	2.86	2.71	0 - 2	2 - 3	2 - 3	7

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

28 Support System

Service Water Suction Piping from Pond

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	28.1	All carbon steel components/welds/HAZ External surfaces Auxiliary building /valve room air 100°F max, 35 to 125 psia design max (inside condition)						
	MIC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	SCC	0.50	2.50	2.50	0 - 1	2 - 3	2 - 3	2
Subgroup	28.2	All carbon steel components/welds/HAZ External surface - Buried pipe with cathodic protection Ambient temperature, 35 to 125 psia max (inside condition)						
	FAC	2.00	3.00	3.00	2 - 2	3 - 3	3 - 3	1
	FAT	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	GC	1.75	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.63	2.63	2.63	1 - 2	2 - 3	2 - 3	8
	PIT	1.75	2.63	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.50	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup	28.3	All carbon steel components/welds/HAZ Pond water (raw water) 100°F, 35 to 125 psia design						
	FAC	1.14	2.43	2.43	1 - 2	2 - 3	2 - 3	7
	MIC	<u>2.00</u>	2.88	2.75	1 - 3	2 - 3	2 - 3	8
	PIT	<u>1.88</u>	2.88	2.75	1 - 3	2 - 3	2 - 3	8
	SCC	1.00	2.75	2.63	1 - 1	2 - 3	2 - 3	8
Subgroup	28.4	All carbon steel components/welds/HAZ Salt water in coated/lined pipe 100°F, 35 to 125 psia design						
	CREV	2.29	2.86	2.71	2 - 3	2 - 3	2 - 3	7
	MIC	2.50	2.50	2.00	2 - 3	2 - 3	2 - 2	2
	PIT	2.43	2.86	2.71	2 - 3	2 - 3	2 - 3	7

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

29 Support System

Service Water Pump Discharge Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 29.1	All carbon steel components/welds/HAZ External surfaces, Auxiliary building air Rubber insulated at some plants 100°F max, 125 psia design max (inside condition)						
MIC	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
PIT	1.38	2.88	2.88	1 - 2	2 - 3	2 - 3	8
SCC	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
Subgroup 29.2	All carbon steel components/welds/HAZ Pond water 100°F max, 125 psia design						
FAC	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
FAT	1.13	2.63	2.63	1 - 2	2 - 3	2 - 3	8
MIC	<u>2.00</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
PIT	<u>1.88</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
SCC	1.00	2.75	2.63	1 - 1	2 - 3	2 - 3	8
Subgroup 29.3	CCW HX Copper Zinc tubes internal CCW water and external pond water 100°F max, 125 psia design						
FAC	<u>1.75</u>	2.88	2.88	1 - 3	2 - 3	2 - 3	8
MIC	1.38	2.63	2.63	1 - 2	2 - 3	2 - 3	8
PIT	2.13	2.75	2.75	2 - 3	2 - 3	2 - 3	8
SCC	<u>1.88</u>	2.63	2.63	1 - 3	2 - 3	2 - 3	8
Subgroup 29.4	CCW HX Shell and Tubesheets and fittings Carbon steel Pond Water 100°F max, 125 psia design						
CREV	1.88	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.50	2.88	2.88	1 - 2	2 - 3	2 - 3	8
MIC	<u>2.00</u>	2.88	2.88	1 - 3	2 - 3	2 - 3	8
PIT	<u>1.88</u>	2.88	2.88	1 - 3	2 - 3	2 - 3	8
Subgroup 29.5	CCW HX SS tubes Stainless steel internal CCW water and external pond or sea water 100°F max, 125 psia design						
CREV	1.71	2.71	2.71	1 - 2	2 - 3	2 - 3	7
MIC	1.57	2.57	2.71	1 - 2	1 - 3	2 - 3	7
PIT	1.71	2.71	2.71	1 - 2	2 - 3	2 - 3	7
SCC	1.43	2.71	2.71	1 - 2	2 - 3	2 - 3	7

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

29 Support System

Service Water Pump Discharge Piping

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	29.6	CCW HX Copper Nickel tubes Copper Nickel internal CCW water and external pond (or sea) water 100°F max, 125 psia design						
	FAC	1.14	2.86	2.86	1 - 2	2 - 3	2 - 3	7
	MIC	1.14	2.71	2.71	1 - 2	2 - 3	2 - 3	7
	PIT	1.14	2.71	2.71	1 - 2	2 - 3	2 - 3	7
	SCC	1.00	2.71	2.71	1 - 1	2 - 3	2 - 3	7

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

30 Support System

Service Water Piping Inside Containment

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup 30.1	All carbon steel components/welds/HAZ External surfaces Containment building air 100°F max, 125 psia design max (inside condition)							
	MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
	SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 30.2	All carbon steel components/welds/HAZ Pond water 100°F max, 125 psia design							
	CREV	1.75	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	EC	0.83	2.50	<u>2.50</u>	0 - 1	1 - 3	1 - 3	6
	FAC	1.20	2.40	2.40	1 - 2	2 - 3	2 - 3	5
	FAT	1.13	2.63	2.63	1 - 2	2 - 3	2 - 3	8
	MIC	<u>1.88</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
	PIT	<u>1.88</u>	2.75	2.75	1 - 3	2 - 3	2 - 3	8
	SCC	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

31 Support System

CVCS Pump Piping to Crossover Leg Injection

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	31.1	All stainless steel components External surfaces at <130°F Containment/Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	31.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 130°F, 2250 psia						
	FAT	1.13	2.75	<u>2.63</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.38	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	31.3	Austenitic weld HAZs Types 304, 316, PWR primary water 130°F, 2250 psia						
	FAT	1.00	2.88	2.00	1 - 1	2 - 3	2 - 2	8
	SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup	31.4	Austenitic to austenitic weld metals Type 308, PWR primary water 130°F, 2250 psia						
	FAT	1.13	2.88	2.00	1 - 2	2 - 3	2 - 2	8
	SCC	0.63	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	31.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 130°F, 2250 psia						
	FAT	1.13	2.88	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.50	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	31.6	Socket welds Type 304, PWR primary water 130°F, 2250 psia						
	FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
	SCC	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	31.7	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 557°F, 2250 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.75	2.63	2.50	0 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

31 Support System

CVCS Pump Piping to Crossover Leg Injection

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	31.8	Austenitic weld HAZs Types 304, 316, PWR primary water 557°F, 2250 psia						
	FAT	1.38	2.50	1.88	1 - 2	2 - 3	1 - 2	8
	FR	1.20	2.20	1.60	1 - 2	1 - 3	1 - 2	5
	SCC	1.50	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	31.9	Austenitic to austenitic weld metals Type 308, PWR primary water 557°F, 2250 psia						
	FAT	1.25	2.13	1.88	1 - 2	2 - 3	1 - 2	8
	FR	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	1.13	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	31.10	Forged austenitic stainless steel components Types 304, 316, PWR primary water 557°F, 2250 psia						
	FAT	1.38	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.75	2.63	2.50	0 - 1	2 - 3	2 - 3	8
Subgroup	31.11	Socket welds Type 304, PWR primary water 557°F, 2250 psia						
	FAT	2.13	2.88	2.00	2 - 3	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
Subgroup	31.12	Flange retaining bolts SA-194 Gr B16 Building Air Low temperature						
	BAC	1.13	2.63	2.63	1 - 2	2 - 3	2 - 3	8
	FAT	1.00	2.00	2.00	1 - 1	2 - 2	2 - 2	8
	FR	<u>1.00</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
	SCC	1.13	2.88	2.00	1 - 2	2 - 3	2 - 2	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

32 Support System

CVCS Normal Letdown Piping

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	32.1	All stainless steel components External surfaces at <557°F Containment/Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	32.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 115 to 560°F, 2250 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.75	2.63	2.50	0 - 1	2 - 3	2 - 3	8
Subgroup	32.3	Austenitic weld HAZs Types 304, 316, PWR primary water 115 to 560°F, 2250 psia						
	FAT	1.25	2.50	1.88	1 - 2	2 - 3	1 - 2	8
	FR	1.17	2.17	1.67	1 - 2	1 - 3	1 - 2	6
	SCC	1.50	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	32.4	Austenitic to austenitic weld metals Type 308, PWR primary water 115 to 560°F, 2250 psia						
	FAT	1.00	2.50	1.88	1 - 1	2 - 3	1 - 2	8
	FR	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.00</u>	2.50	<u>2.38</u>	0 - 2	2 - 3	1 - 3	8
Subgroup	32.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 115 to 560°F, 2250 psia						
	FAT	1.13	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.00</u>	2.63	2.50	0 - 2	2 - 3	2 - 3	8
Subgroup	32.6	Socket welds Type 304, PWR primary water 115 to 560°F, 2250 psia						
	FAT	2.13	2.88	2.00	2 - 3	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

33 Support System

CVCS Regenerative HX Piping to Letdown HX

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	33.1	All stainless steel components External surfaces at <290°F Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	33.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 115 to 290°F, 285 to 2235 psia						
	FAT	1.13	2.75	<u>2.63</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.63	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	33.3	Austenitic weld HAZs Types 304, 316, PWR primary water 115 to 290°F, 285 to 2235 psia						
	FAT	1.13	2.88	2.00	1 - 2	2 - 3	2 - 2	8
	FR	0.50	2.75	2.50	0 - 1	2 - 3	2 - 3	4
	SCC	1.63	3.00	2.88	1 - 2	3 - 3	2 - 3	8
Subgroup	33.4	Austenitic to austenitic weld metals Type 308, PWR primary water 115 to 290°F, 285 to 2235 psia						
	FAT	1.13	2.88	2.00	1 - 2	2 - 3	2 - 2	8
	SCC	0.75	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	33.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 115 to 290°F, 285 to 2235 psia						
	FAT	1.13	2.88	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.50	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	33.6	Socket welds Type 304, PWR primary water 115 to 290°F, 285 to 2235 psia						
	FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
	SCC	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

33 Support System

CVCS Regenerative HX Piping to Letdown HX

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	33.7	Letdown HX shell, nozzles & fittings Carbon steel Treated water (CCW) 105 to 137°F, 150 psia						
	CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	FAT	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	SCC	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

34 Support System

CVCS Letdown HX Piping to VCT

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 34.1	All stainless steel components External surfaces at <115°F Auxiliary building air Normally dry						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 34.2	Wrought austenitic stainless steel piping (≤3" NPS) Types 304, 316, PWR primary water 115°F, 75 or 285 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.38	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 34.3	Austenitic weld HAZs Types 304, 316, PWR primary water 115°F, 75 or 285 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup 34.4	Austenitic to austenitic weld metals Type 308, PWR primary water 115°F, 75 or 285 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 34.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 115°F, 75 or 285 psia						
FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
SCC	0.38	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 34.6	Socket welds Type 304, PWR primary water 115°F, 75 or 285 psia						
FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
SCC	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 34.7	Bolted flanged joint Flange bolts SA193 Gr B16 or B7 bolts Building air environment						
BAC	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
FAT	0.88	2.50	2.38	0 - 1	2 - 3	2 - 3	8
FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
GC	0.63	2.75	2.63	0 - 1	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.88	2.38	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

34 Support System

CVCS Letdown HX Piping to VCT

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	34.8	Bolted flanged joint Studs SA453 Gr 660 (13-16% CR SS) Building air environment						
	FAT	0.88	2.38	2.25	0 - 1	2 - 3	2 - 3	8
	FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
	SCC	<u>1.13</u>	2.88	2.63	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

35 Support System

CVCS Mixed Bed Piping to Filter

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 35.1	All stainless steel components External surfaces at <115°F Auxiliary building air Normally dry						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 35.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 115°F, 285 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.75	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 35.3	Austenitic weld HAZs Types 304, 316, PWR primary water 115°F, 285 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	1.38	3.00	2.88	1 - 2	3 - 3	2 - 3	8
Subgroup 35.4	Austenitic to austenitic weld metals Type 308, PWR primary water 115°F, 285 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 35.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 115°F, 75 to 285 psia						
FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
SCC	0.38	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 35.6	Socket welds Type 304, PWR primary water 115°F, 285 psia						
FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
SCC	0.75	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 35.7	Bolted flanged joint Flange bolts SA193 Gr B7 bolts Building air environment						
BAC	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
FAT	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
GC	0.71	2.71	2.43	0 - 1	2 - 3	2 - 3	7
SCC	<u>1.00</u>	2.88	2.25	0 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

35 Support System

CVCS Mixed Bed Piping to Filter

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	35.8	Cast austenitic SS components Types CF8, PWR primary water 115°F, 285 psia						
	FAT	<u>1.00</u>	2.75	2.38	0 - 2	2 - 3	2 - 3	8
	FR	0.57	2.86	2.57	0 - 1	2 - 3	2 - 3	7
	SCC	<u>0.50</u>	2.63	<u>2.38</u>	0 - 2	1 - 3	1 - 3	8
Subgroup	35.9	Dissimilar metal weld (Support lug) External surface Auxiliary building air						
	PIT	1.13	2.63	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.63	2.63	1 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

36 Support System

CVCS VCT Piping to Charging Pump Suction

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	36.1	All stainless steel components External surfaces at <160°F Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	36.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 160 or 115°F, 95 or 2250 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.75	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	36.3	Austenitic weld HAZs Types 304, 316, PWR primary water 160 or 115°F, 95 or 2250 psia						
	FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
	SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup	36.4	Austenitic to austenitic weld metals Type 308, PWR primary water 160 or 115°F, 95 or 2250 psia						
	FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
	SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	36.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 160 or 115°F, 95 or 2250 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.38	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	36.6	Bolted flanged joint Flange bolts SA193 Gr B7 bolts Building air environment						
	BAC	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
	FAT	0.88	2.50	2.25	0 - 1	2 - 3	2 - 3	8
	FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
	GC	0.71	2.71	2.43	0 - 1	2 - 3	2 - 3	7
	SCC	<u>1.00</u>	2.88	2.25	0 - 2	2 - 3	2 - 3	8
Subgroup	36.7	Cast austenitic Types CF8, PWR primary water 160 or 115°F, 95 or 2250 psia						
	FAT	<u>1.00</u>	2.75	2.38	0 - 2	2 - 3	2 - 3	8
	FR	0.57	2.86	2.57	0 - 1	2 - 3	2 - 3	7
	SCC	<u>0.50</u>	2.63	<u>2.38</u>	0 - 2	1 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

37 Support System

CVCS Charging Pump Piping to Regenerative HX

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 37.1	All stainless steel components External surfaces at <130°F Auxiliary building air Normally dry						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 37.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 130°F, 2235 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.38	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 37.3	Austenitic weld HAZs Types 304, 316, PWR primary water 130°F, 2235 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup 37.4	Austenitic to austenitic weld metals Type 308, PWR primary water 130°F, 2235 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 37.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 130°F, 2235 psia						
FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
SCC	0.38	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 37.6	Socket welds Type 304, PWR primary water 130°F, 2235 psia						
FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
SCC	0.75	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 37.7	Bolted flanged joint Flange bolts SA193 Gr B7 bolts Building air environment						
BAC	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
FAT	0.86	2.57	2.43	0 - 1	2 - 3	2 - 3	7
FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
GC	0.63	2.63	2.50	0 - 1	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.88	2.25	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

38 Support System

CVCS Regenerative HX Piping to Cold Leg

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	38.1	All stainless steel components External surfaces at <517°F Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.86	1 - 1	3 - 3	2 - 3	7
	SCC	1.00	3.00	2.86	1 - 1	3 - 3	2 - 3	7
Subgroup	38.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 517°F, 2305 psia						
	FAT	1.25	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.75	2.63	2.50	0 - 1	2 - 3	2 - 3	8
Subgroup	38.3	Austenitic weld HAZs Types 304, 316, PWR primary water 517°F, 2305 psia						
	FAT	1.38	2.50	1.88	1 - 2	2 - 3	1 - 2	8
	FR	1.17	2.17	1.67	1 - 2	1 - 3	1 - 2	6
	SCC	1.50	2.50	<u>2.38</u>	1 - 2	2 - 3	1 - 3	8
Subgroup	38.4	Austenitic to austenitic weld metals Type 308, PWR primary water 517°F, 2305 psia						
	FAT	1.25	2.50	1.88	1 - 2	2 - 3	1 - 2	8
	FR	1.00	2.67	<u>2.17</u>	1 - 1	2 - 3	1 - 3	6
	SCC	<u>1.00</u>	2.50	<u>2.38</u>	0 - 2	2 - 3	1 - 3	8
Subgroup	38.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 517°F, 2305 psia						
	FAT	1.38	2.50	<u>2.00</u>	1 - 2	2 - 3	1 - 3	8
	SCC	<u>1.13</u>	2.63	2.38	0 - 3	2 - 3	2 - 3	8
Subgroup	38.6	Socket welds Type 304, PWR primary water 517°F, 2305 psia						
	FAT	2.13	2.88	2.00	2 - 3	2 - 3	2 - 2	8
	SCC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

39 Support System

CVCS Injection Filter Piping to RCP Seals

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 39.1	All stainless steel components External surfaces at <130°F Containment/Auxiliary building air Normally dry						
PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 39.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 130°F, 2550 psia						
FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 39.3	Austenitic weld HAZs Types 304, 316, PWR primary water 130°F, 2550 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup 39.4	Austenitic to austenitic weld metals Type 308, PWR primary water 130°F, 2550 psia						
FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
SCC	0.50	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup 39.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 130°F, 2550 psia						
FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
SCC	0.38	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 39.6	Socket welds Type 304, PWR primary water 130°F, 2550 psia						
FAT	2.00	2.75	2.00	2 - 2	2 - 3	2 - 2	8
SCC	0.75	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 39.7	Bolted flanged joint Flange bolts SA193 Gr B16 bolts Building air environment						
BAC	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
FAT	0.88	2.63	2.38	0 - 1	2 - 3	2 - 3	8
FR	<u>0.88</u>	2.63	<u>2.50</u>	0 - 2	1 - 3	1 - 3	8
GC	0.63	2.63	2.38	0 - 1	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.88	2.25	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

40 Support System

CVCS RCP Seal Return Piping to Filter

		Average			Range		Number	
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
							of Scores	
Subgroup	40.1	All stainless steel components External surfaces at <250°F Containment/Auxiliary building air Normally dry						
	PIT	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
	SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup	40.2	Wrought austenitic stainless steel piping Types 304, 316, PWR primary water 250 to 160°F, 2185 or 95 psia						
	FAT	1.13	2.63	<u>2.50</u>	1 - 2	2 - 3	1 - 3	8
	SCC	0.63	3.00	2.88	0 - 1	3 - 3	2 - 3	8
Subgroup	40.3	Austenitic weld HAZs Types 304, 316, PWR primary water 250 to 160°F, 2185 or 95 psia						
	BAC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	FAT	1.13	2.75	2.00	1 - 2	2 - 3	2 - 2	8
	FR	0.60	2.40	2.20	0 - 1	2 - 3	2 - 3	5
	SCC	1.38	3.00	3.00	1 - 2	3 - 3	3 - 3	8
Subgroup	40.4	Austenitic to austenitic weld metals Type 308, PWR primary water 250 to 160°F, 2185 or 95 psia						
	FAT	1.13	2.75	2.25	1 - 2	2 - 3	2 - 3	8
	FR	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	0.75	3.00	2.75	0 - 1	3 - 3	2 - 3	8
Subgroup	40.5	Forged austenitic stainless steel components Types 304, 316, PWR primary water 250 to 160°F, 2185 or 95 psia						
	FAT	1.13	2.75	2.13	1 - 2	2 - 3	2 - 3	8
	SCC	0.50	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup	40.6	Bolted flanged joint Flange bolts SA193 Gr B16 bolts Building air environment						
	BAC	<u>1.00</u>	2.57	2.57	0 - 2	2 - 3	2 - 3	7
	FAT	0.88	2.63	2.38	0 - 1	2 - 3	2 - 3	8
	FR	<u>0.86</u>	2.57	<u>2.43</u>	0 - 2	1 - 3	1 - 3	7
	GC	0.63	2.63	2.38	0 - 1	2 - 3	2 - 3	8
	SCC	<u>1.00</u>	2.88	2.25	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

41 Support System

CCW Surge Tank Piping to CCW HX

		Average			Range		Number	
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores	
Subgroup 41.1	All outside surfaces Low alloy steels and carbon steel, SA53, SA106, SA234, SA285 Auxiliary building air 130°F and 150 psi (inside condition)							
	CREV	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	FAT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	GC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	PIT	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 41.2	Elbows Carbon steel and low alloy steels, SA53, SA106, SA234, SA285 Treated water, Surge Tank portion stagnant, 130°F, 150 psi							
	CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.63	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 41.3	Tees, weldolets, reducers, and nozzles Carbon steel and low alloy steels, SA53, SA106, SA234, SA285 Treated water, Surge Tank portion stagnant, 130°F, 150 psi							
	CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.63	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 41.4	Valves Carbon steel and low alloy steels, SA53, SA106, SA234, SA285 Treated water, Surge Tank portion stagnant, 130°F, 150 psi							
	CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.63	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

41 Support System

CCW Surge Tank Piping to CCW HX

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 41.5	Straight pipe Carbon steel and low alloy steels, SA53, SA106, SA234, SA285 Treated water, Surge Tank portion stagnant, 130°F, 150 psi						
CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	1.57	2.86	2.86	1 - 2	2 - 3	2 - 3	7
PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 41.6	Flanges and surge tank hatch Low alloy steels SA182, SA234, SA312, SA376 Treated water, Surge Tank portion stagnant 130°F, 150 psi, 12,000 gpm (max)						
CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	1.57	2.86	2.86	1 - 2	2 - 3	2 - 3	7
PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 41.7	Surge tank comp, heads, shells SA285, Carbon steel Treated water, normally stagnant, 130°F, 150 psi						
CREV	<u>1.25</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	<u>1.13</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
MIC	1.63	2.75	2.75	1 - 2	2 - 3	2 - 3	8
PIT	1.38	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 41.8	Surge tank weld seam SA285, Treated water normally stagnant, 130°F, 150 psi						
CREV	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	<u>1.13</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
MIC	1.63	2.75	2.75	1 - 2	2 - 3	2 - 3	8
PIT	1.38	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

41 Support System

CCW Surge Tank Piping to CCW HX

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	41.9	CCW Pump casing Cast iron, Treated water 130°F, 150 psi, 4800 gpm						
	FAC	1.00	2.50	<u>2.38</u>	1 - 1	1 - 3	1 - 3	8
	FAT	1.13	2.63	<u>2.63</u>	1 - 2	1 - 3	1 - 3	8
	FR	<u>1.00</u>	2.50	<u>2.50</u>	0 - 2	1 - 3	1 - 3	6
	GC	0.88	2.63	<u>2.50</u>	0 - 1	1 - 3	1 - 3	8
	MIC	<u>1.13</u>	2.88	<u>2.75</u>	0 - 2	2 - 3	1 - 3	8
	PIT	1.25	2.63	<u>2.50</u>	1 - 2	1 - 3	1 - 3	8
	SCC	0.88	2.63	<u>2.63</u>	0 - 1	1 - 3	1 - 3	8
Subgroup	41.10	CCWHX Nozzles 30" Carbon steel, Treated water 130°F, 150 psia, 9.98x10*6 lb/hr						
	CREV	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7
	FAC	1.13	2.63	2.50	1 - 2	2 - 3	2 - 3	8
	FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.86</u>	3.00	2.86	0 - 2	3 - 3	2 - 3	7
	PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

42 Support System

CCW HX Piping to RHR HX

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 42.1	All component outside surfaces Low alloy steels and carbon steel 130°F and 150 psi (inside condition)						
CREV	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
FAT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
GC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 42.2	Elbows Low alloy steels, SA105, SA106, SA234, SA403 Treated water. 130°F, 150 psi, 3x10 ⁶ lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 42.3	Tees, weldolets, reducers, and nozzles Low alloy steels, SA105, SA106, SA234, SA403 Treated water. 130°F, 150 psi, 3x10 ⁶ lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

42 Support System

CCW HX Piping to RHR HX

	Average			Range			Number of Scores
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup 42.4	Valves Low alloy steels, SA105, SA106, SA234, SA403 Treated water. 130°F, 150 psi, 3x10 ⁶ lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 42.5	Straight pipe Low alloy steels, SA105, SA106, SA234, SA403 Treated water. 130°F, 150 psi, 3x10 ⁶ lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.13	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 42.6	Flanges, Lugs on 12, 16, 18" pipe Carbon steel (lug) Low alloy steels, SA105, SA106, SA234, SA403 Treated water. 130°F, 150 psi, 3x10 ⁶ lb/hr						
CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

43 Support System

CCW Piping to Other Loads Outside Containment

		Average			Range		Number	
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores	
Subgroup 43.1	All component outside surfaces Low alloy steels and carbon steel Auxiliary building air 105°F and 150 psi (inside condition)							
	CREV	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	FAT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	GC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	PIT	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
	SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 43.2	Elbows Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 200,000lb/hr							
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
	FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
	PIT	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 43.3	Tees, weldolets, reducers, and nozzles Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 200,000lb/hr							
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
	FAT	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
	PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

43 Support System

CCW Piping to Other Loads Outside Containment

	Susceptibility	Average		Susceptibility	Range		Number of Scores
		Confidence	Knowledge		Confidence	Knowledge	
Subgroup 43.4	Valves Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 200,000lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 43.5	Straight pipe Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 200,000lb/hr						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.75	2.88	<u>2.63</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 43.6	Flanges, Lugs Carbon steel (lug) Low alloy steels SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 200,000lb/hr						
CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	1.25	2.63	<u>2.25</u>	1 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

43 Support System

CCW Piping to Other Loads Outside Containment

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	43.7	Sockolets, plugs on 1" pipe Low alloy steels, SA105, SA106 Treated water, normally stagnant. 105°F, 150 psi						
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	1.50	2.75	2.50	1 - 2	2 - 3	2 - 3	8
	GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	MIC	1.63	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
	SCC	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

44 Support System

CCW Piping to RCPs Inside Containment

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 44.1	All component outside surfaces Low alloy steels and carbon steel Containment/Auxiliary building air Treated water, 105°F, 150 psi (inside condition)						
CREV	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
FAT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
GC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 44.2	Elbows Low alloy steels, SA105, SA106, SA234 Treated water, 105°F, 150 psi, 40-700 gpm						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.13</u>	2.63	<u>2.13</u>	0 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 44.3	Tees, weldolets, reducers, threaded caps, and nozzles Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 40-700 gpm						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.13</u>	2.63	<u>2.13</u>	0 - 2	2 - 3	1 - 3	8
FAT	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.75	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

44 Support System

CCW Piping to RCPs Inside Containment

	Susceptibility	Average		Susceptibility	Range		Number of Scores
		Confidence	Knowledge		Confidence	Knowledge	
Subgroup 44.4	Valves Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 40-700 gpm						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.13</u>	2.63	<u>2.13</u>	0 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup 44.5	Straight pipe Low alloy steels, SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 40-700 gpm						
CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.13</u>	2.63	<u>2.13</u>	0 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 44.6	Flanges, Lugs Carbon steel (lug), Low alloy steels SA105, SA106, SA234, SA403 Treated water, 105°F, 150 psi, 40-700 gpm						
CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
FAC	<u>1.13</u>	2.63	<u>2.13</u>	0 - 2	2 - 3	1 - 3	8
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
MIC	0.88	2.88	<u>2.75</u>	0 - 1	2 - 3	1 - 3	8
PIT	1.25	2.75	2.63	1 - 2	2 - 3	2 - 3	8
SCC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

44 Support System

CCW Piping to RCPs Inside Containment

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	44.7	Flexible 2" hose Low alloy steels, SA105, carbon steel Treated water, 105°F, 2485 psi, 40 gpm						
	CREV	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	FAT	<u>1.13</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>1.13</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.50	0 - 2	2 - 3	2 - 3	8
	SCC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

45 Support System

Spent Fuel Pool Cooling Piping

		Average			Range			
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	Number of Scores	
Subgroup 45.1	All component outside surfaces Stainless steel or TP 304 Fuel handling building air Borated water, 70-110°F and 65 psi (inside condition)							
CREV	0.71	2.71	2.57	0 - 1	2 - 3	2 - 3	7	
FAT	0.43	2.86	2.71	0 - 1	2 - 3	2 - 3	7	
GC	0.43	2.86	2.71	0 - 1	2 - 3	2 - 3	7	
MIC	0.57	2.86	2.71	0 - 1	2 - 3	2 - 3	7	
PIT	1.00	3.00	2.75	1 - 1	3 - 3	2 - 3	8	
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8	
Subgroup 45.2	Outside surfaces embedded in concrete Stainless steel or TP 304 Auxiliary building air Borated water, 70-110°F and 65 psi (inside condition)							
CREV	0.88	2.63	2.63	0 - 1	2 - 3	2 - 3	8	
MIC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8	
PIT	0.88	2.63	2.63	0 - 1	2 - 3	2 - 3	8	
Subgroup 45.3	Elbows Stainless steel or TP 304 Borated water, oxygenated 70-110°F and 65 psi, 4350 lb/hr							
CREV	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8	
FAT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8	
MIC	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8	
PIT	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7	
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
Subgroup 45.4	Tees, weldolets, reducers, threaded caps, and nozzles Stainless steel or TP 304 Borated water, oxygenated 70-110°F and 65 psi, 4350 lb/hr							
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
FAT	<u>1.13</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8	
MIC	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8	
PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8	
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

45 Support System

Spent Fuel Pool Cooling Piping

	Susceptibility	Average		Susceptibility	Range		Number of Scores
		Confidence	Knowledge		Confidence	Knowledge	
Subgroup 45.5	Valves on 10, 12, 14, 16, 18" pipe Stainless steel or TP 304 Borated water, oxygenated 70-110°F, 65 psi, 4350 lb/hr						
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
FAT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8
PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
Subgroup 45.6	Straight pipe Stainless steel or TP 304 Borated water, oxygenated 70-110°F, 65 psi, 4350 lb/hr						
CREV	<u>1.00</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
FAT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8
PIT	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
Subgroup 45.7	Flanges, Lugs Stainless steel or TP 304 Borated water, oxygenated 70-110°F, 65 psi, 4350 lb/hr						
CREV	1.25	2.88	2.88	1 - 2	2 - 3	2 - 3	8
FAT	<u>0.88</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
MIC	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7
PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
Subgroup 45.8	Weldolet, pipe, caps Stainless steel or TP 304 Stagnant, capped line Borated water, oxygenated, 70-110°F and 65 psi.						
CREV	1.38	2.88	2.88	1 - 2	2 - 3	2 - 3	8
FAT	<u>1.00</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
MIC	1.38	2.88	2.88	1 - 2	2 - 3	2 - 3	8
PIT	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
SCC	1.25	2.88	2.88	1 - 2	2 - 3	2 - 3	8

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Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

45 Support System

Spent Fuel Pool Cooling Piping

		Average			Range			
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	Number of Scores	
Subgroup 45.9	SFP HX tubesheet nozzles, tubesheet, tubes, Stainless steel Borated water, oxygenated 70-110°F, 65 psi, 4350 gpm							
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
FAT	<u>1.00</u>	2.71	2.71	0 - 2	2 - 3	2 - 3	7	
GALV	1.00	2.83	2.83	1 - 1	2 - 3	2 - 3	6	
MIC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8	
PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8	
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
Subgroup 45.10	SFP pump and associated: pump casing, strainer, strainer screen, strainer supports, strainer bottom ring Stainless steel Borated water, oxygenated, 70-110°F, 65 psi, 4350 gpm							
CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8	
FAT	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7	
GALV	1.00	2.80	2.80	1 - 1	2 - 3	2 - 3	5	
MIC	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7	
PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8	
SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
Subgroup 45.11	SPF Shellside: shell, nozzles 18"; Lug on part 32 Carbon steel CCW water, deoxygenated 70-110°F, 65 psi, 4350 gpm							
CREV	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8	
FAC	<u>1.00</u>	2.71	2.29	0 - 2	2 - 3	2 - 3	7	
FAT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8	
GC	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8	
MIC	1.00	2.86	2.86	1 - 1	2 - 3	2 - 3	7	
PIT	1.13	2.75	2.63	1 - 2	2 - 3	2 - 3	8	
SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8	

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

46 Support System

Spent Fuel Pool Cleaning Piping

	Susceptibility	Average		Susceptibility	Range		Number of Scores
		Confidence	Knowledge		Confidence	Knowledge	
Subgroup 46.1	All component outside surfaces Stainless steel or TP 304 Auxiliary building air Borated water, 70-110°F and 65 psi (inside condition)						
CREV	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
FAT	0.57	2.86	2.71	0 - 1	2 - 3	2 - 3	7
GC	0.75	2.88	2.88	0 - 1	2 - 3	2 - 3	8
MIC	0.43	2.86	2.71	0 - 1	2 - 3	2 - 3	7
PIT	1.00	3.00	2.75	1 - 1	3 - 3	2 - 3	8
SCC	1.00	3.00	2.88	1 - 1	3 - 3	2 - 3	8
Subgroup 46.2	Elbows SS TP 304, 316 Borated water, 70-110°F, 65 psi, 80gpm						
CREV	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8
FAT	0.88	2.88	2.63	0 - 1	2 - 3	2 - 3	8
MIC	0.00	3.00	2.00	0 - 0	3 - 3	2 - 2	1
PIT	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
Subgroup 46.3	Tees, weldolets, reducers, threaded caps, and nozzles SS TP 304/316 Borated water, 70-110°F and 65 psi, 80gpm						
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
FAT	0.88	2.88	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
Subgroup 46.4	Valves SS TP 304, 316 Borated water, 70-110°F and 65 psi, 80gpm						
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
FAT	0.88	2.88	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
Subgroup 46.5	Straight pipe SS TP 304, 316 Borated water, 70-110°F and 65 psi, 80gpm						
CREV	0.88	2.88	2.75	0 - 1	2 - 3	2 - 3	8
FAT	0.88	2.88	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

46 Support System

Spent Fuel Pool Cleaning Piping

		Average			Range			
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	Number of Scores	
Subgroup 46.6	Flanges SS TP 304, 316 Borated water, 70-110°F and 65 psi, 80gpm							
CREV	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8	
FAT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8	
PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8	
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8	
Subgroup 46.7	Mixed bed components SS TP 304, 316 Borated water, 70-110°F and 65 psi, 80gpm							
CREV	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8	
FAT	0.88	2.75	2.63	0 - 1	2 - 3	2 - 3	8	
MIC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8	
PIT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8	
SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8	

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

47 Auxiliary System

Spent Fuel Pool and Fuel Racks

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	47.1	Spent fuel pool TP 304 SS High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	GC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
	PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	SCC	1.00	2.88	2.75	1 - 1	2 - 3	2 - 3	8
	WEAR	<u>1.00</u>	2.29	<u>2.14</u>	0 - 2	1 - 3	1 - 3	7
Subgroup	47.2	Spent fuel pool TP 304 SS weld HAZ High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	FAT	<u>0.75</u>	2.50	2.50	0 - 2	1 - 3	2 - 3	8
	PIT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	SCC	1.38	2.88	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup	47.3	Spent fuel pool SS weld metal High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	CREV	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	FAT	<u>0.75</u>	2.50	2.50	0 - 2	1 - 3	2 - 3	8
	PIT	1.00	2.75	2.75	1 - 1	2 - 3	2 - 3	8
	SCC	1.00	2.88	2.88	1 - 1	2 - 3	2 - 3	8
Subgroup	47.4	Boral panels Aluminum High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	CREV	<u>1.13</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
	GC	<u>1.00</u>	2.88	2.75	0 - 2	2 - 3	2 - 3	8
	PIT	1.13	2.75	2.75	1 - 2	2 - 3	2 - 3	8
Subgroup	47.5	Fuel Assembly Zr- alloy High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	GC	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	0.63	2.75	2.63	0 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

47 Auxiliary System

Spent Fuel Pool and Fuel Racks

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	47.6	Spent Fuel Pool floor with SS liner High purity Borated water with oxygen 100 - 150°F, Ambient pressure						
	CREV	0.88	2.75	2.63	0 - 1	2 - 3	2 - 3	8
	FAT	0.75	2.88	2.63	0 - 1	2 - 3	2 - 3	8
	MIC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
Subgroup	47.7	Spent Fuel Pool floor with SS liner Humid air, gamma radiation, external surface 100 - 150°F, Ambient pressure						
	CREV	1.25	2.75	2.75	1 - 2	2 - 3	2 - 3	8
	PIT	1.13	2.88	2.88	1 - 2	2 - 3	2 - 3	8
	SCC	<u>1.13</u>	2.75	<u>2.38</u>	0 - 2	2 - 3	1 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

48 Engineered Safety Features System

Containment Penetrations for Process Piping

		Average		Range			Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 48.1	TP 304, LAS, CS (Base metal, HAZ and Weld Metal except 304) Ambient air and pressure, Possible concentration of impurities such as Cl (outside)						
CREV	0.88	2.63	2.63	0 - 1	2 - 3	2 - 3	8
FAT	0.63	2.88	2.63	0 - 1	2 - 3	2 - 3	8
GC	0.63	2.88	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.75	2.63	0 - 1	2 - 3	2 - 3	8
SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 48.2	TP 304 sleeves (SA-316, Gr. 60 & SA-335, Gr.6) dissimilar weld Ambient air and pressure Possible concentration of impurities such as Cl Possible use of buttering by Ni-base alloy						
CREV	<u>1.00</u>	2.63	2.63	0 - 2	2 - 3	2 - 3	8
FAT	0.63	2.88	2.63	0 - 1	2 - 3	2 - 3	8
GC	0.63	2.88	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.88	2.75	2.63	0 - 1	2 - 3	2 - 3	8
SCC	0.88	2.75	2.75	0 - 1	2 - 3	2 - 3	8
Subgroup 48.3.1	Penetration pipes (MS and FW) SA155 GR. NCGS and SA106, GR.B Inside:Main steam/Feed water, 557°F, 1092-1185psi						
CREV	0.50	3.00	2.75	0 - 1	3 - 3	2 - 3	4
FAC	2.00	2.50	2.50	2 - 2	2 - 3	2 - 3	2
FAT	0.67	2.50	2.33	0 - 1	2 - 3	2 - 3	6
GC	<u>0.80</u>	2.80	2.60	0 - 2	2 - 3	2 - 3	5
MIC	0.40	3.00	2.80	0 - 1	3 - 3	2 - 3	5
PIT	<u>0.80</u>	2.80	2.60	0 - 2	2 - 3	2 - 3	5
SCC	0.83	2.83	2.83	0 - 1	2 - 3	2 - 3	6
Subgroup 48.3.2	Penetration pipes (MS and FW) SA155 GR. NCGS and SA106, GR.B Outside:Cooled air, Temperature below 150°F and ambient pressure						
CREV	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
FAT	0.75	2.75	2.50	0 - 1	2 - 3	2 - 3	8
GC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
PIT	0.75	2.75	2.63	0 - 1	2 - 3	2 - 3	8
SCC	0.75	2.75	2.75	0 - 1	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

48 Engineered Safety Features System

Containment Penetrations for Process Piping

		Average			Range		Number
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores
Subgroup 48.4.1	Penetration pipes (RHR, SI, CVCS) TP 304, TP 316L Inside:Primary water, Temp. 350°F - 165°F, Pressure 450 - 75/100 psi						
CREV	0.50	3.00	2.75	0 - 1	3 - 3	2 - 3	4
FAC	0.00	3.00	3.00	0 - 0	3 - 3	3 - 3	1
FAT	0.60	2.80	<u>2.40</u>	0 - 1	2 - 3	1 - 3	5
GC	0.40	3.00	2.80	0 - 1	3 - 3	2 - 3	5
MIC	0.40	3.00	2.80	0 - 1	3 - 3	2 - 3	5
PIT	0.60	3.00	2.80	0 - 1	3 - 3	2 - 3	5
SCC	0.80	3.00	2.80	0 - 1	3 - 3	2 - 3	5
Subgroup 48.4.2	Penetration pipes (RHR, SI, CVCS) TP 304, TP 316L Outside:Cooled air Temperature below 150 F and ambient pressure						
CREV	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
FAT	0.71	2.86	2.57	0 - 1	2 - 3	2 - 3	7
GC	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
MIC	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
PIT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
SCC	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 48.5.1	Penetration pipes (SW and CCW) SA106, GR.B Temperature 130°F, Pressure 75/100 - 150 psi						
CREV	<u>0.83</u>	2.67	2.50	0 - 2	2 - 3	2 - 3	6
FAT	<u>0.67</u>	2.83	2.67	0 - 2	2 - 3	2 - 3	6
GC	<u>0.83</u>	2.83	2.67	0 - 2	2 - 3	2 - 3	6
MIC	<u>0.83</u>	2.83	2.67	0 - 2	2 - 3	2 - 3	6
PIT	<u>0.83</u>	2.83	2.50	0 - 2	2 - 3	2 - 3	6
SCC	<u>0.83</u>	2.83	2.67	0 - 2	2 - 3	2 - 3	6
Subgroup 48.5.2	Penetration pipes (SW and CCW) SA106, GR.B Outside: Cooled air, Temperature below 150°F and ambient pressure						
CREV	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
FAT	1.00	3.00	2.00	1 - 1	3 - 3	2 - 2	1
GC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
MIC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
PIT	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1
SCC	1.00	3.00	3.00	1 - 1	3 - 3	3 - 3	1

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

48 Engineered Safety Features System

Containment Penetrations for Process Piping

		Average		Range			Number	
	Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	of Scores	
Subgroup 48.6	Penetration pipes/sleeves dissimilar weld, HAZ (SW and CCW) TP 304 & 316L, LAS & CS Ambient temp and pressure							
	CREV	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
	FAT	0.63	2.75	<u>2.50</u>	0 - 1	2 - 3	1 - 3	8
	GC	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
	MIC	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
	PIT	0.75	2.88	2.75	0 - 1	2 - 3	2 - 3	8
	SCC	0.88	2.88	2.88	0 - 1	2 - 3	2 - 3	8
Subgroup 48.7	Sleeves & Flued Head (LAS & CS) SA-316, Gr. 60, SA-335, Gr.6, SA-350 GR LF-1, SA-240, GR.304 & SA516 GR. 60 Ambient temp and pressure							
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 48.8	Sleeves/Flued Head HAZ (LAS & CS) SA-316, Gr. 60, SA-335, Gr.6, SA-350 GR LF-1, SA-240, GR.304 & SA516 GR. 60 Ambient temp and pressure							
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
Subgroup 48.9	Sleeves/Flued Head weld (LAS & CS) SA-316, Gr. 60, SA-335, Gr.6, SA-350 GR LF-1, SA-240, GR.304 & SA516 GR. 60 Ambient temp and pressure							
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.88</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8

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PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

48 Engineered Safety Features System

Containment Penetrations for Process Piping

		Susceptibility	Average Confidence	Knowledge	Susceptibility	Range Confidence	Knowledge	Number of Scores
Subgroup	48.10	Leak chase channel plug Containment air Ambient temp and pressure						
	CREV	0.86	3.00	3.00	0 - 1	3 - 3	3 - 3	7
	FAT	0.71	3.00	2.71	0 - 1	3 - 3	2 - 3	7
	GC	0.71	3.00	2.86	0 - 1	3 - 3	2 - 3	7
	MIC	0.71	3.00	2.86	0 - 1	3 - 3	2 - 3	7
	PIT	0.86	3.00	2.86	0 - 1	3 - 3	2 - 3	7
	SCC	0.67	3.00	3.00	0 - 1	3 - 3	3 - 3	6
Subgroup	48.11	Flange and necked flange SA 105 or SA 305 GR. LF2 Ambient temp and pressure						
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.75</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
Subgroup	48.12	Flange and necked flange/sleeves weld HAZ SA 105 or SA 305 GR. LF2 Ambient temp and pressure						
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.86</u>	2.71	2.71	0 - 2	2 - 3	2 - 3	7
Subgroup	48.13	Flange and necked flange/sleeves weld metal SA 105 or SA 305 GR. LF2 Ambient temp and pressure						
	CREV	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	GC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	MIC	<u>0.88</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.00</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>0.75</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.

PMDA FOR PRESSURIZED WATER REACTOR COMPONENTS

48 Engineered Safety Features System

Containment Penetrations for Process Piping

		Average			Range			Number of Scores
		Susceptibility	Confidence	Knowledge	Susceptibility	Confidence	Knowledge	
Subgroup	48.14	Containment Bldg penetrations Carbon steel bellows Outside or auxiliary building air						
	CREV	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	FAT	<u>1.00</u>	2.63	2.50	0 - 2	2 - 3	2 - 3	8
	GC	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	MIC	<u>1.13</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8
	PIT	<u>1.13</u>	2.75	2.63	0 - 2	2 - 3	2 - 3	8
	SCC	<u>1.00</u>	2.75	2.75	0 - 2	2 - 3	2 - 3	8

? indicates that the average Confidence rating for the scores was less than 2.

Where the Susceptibility and Knowledge scores had a wide variation, the averages are underlined.