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Summary of Davis-Besse Risk Assessment of CRDM Crackings

1. PRA Values without CRDM contribution

	<u>Davis-Besse</u>		<u>NRC</u>
	<u>IPE</u>	<u>Revision</u>	<u>SPAR-3i</u>
<u>CCDP, given</u> <u>MLOCA initiation</u>	$6.87 \times 10^{-3}$	$2.7 \times 10^{-3}$	$2.53 \times 10^{-3}$
<u>Total CDF /ry</u> <u>(without CRDM Crack)</u>	$6.6 \times 10^{-5}$		$4.03 \times 10^{-5}$

2. CDF Contribution by CRDM Crackings

<u>Inspection Credits</u>	<u>Increase in CDF, /ry</u> <u>(Initiating Event Frequency)</u>	<u>Cumulative CDP</u>	
		<u>3 months</u>	<u>6 months</u>
No Credit to Inspections	$9.2 \times 10^{-5}$ ( $3.4 \times 10^{-2}$ )	$2.3 \times 10^{-5}$	$4.4 \times 10^{-5}$
No Credit to 11 & 12 RFO inspections	$2.69 \times 10^{-5}$ ( $1.0 \times 10^{-2}$ )	$6.72 \times 10^{-6}$	$1.35 \times 10^{-5}$
No Credit to 12 RFO Inspection	$4.5 \times 10^{-6}$ ( $1.7 \times 10^{-3}$ )	$1.13 \times 10^{-6}$	$2.25 \times 10^{-6}$
<b>3 Grouping Approach</b> <b>(Davis-Besse Submittal)</b>	$6.97 \times 10^{-6}$ ( $2.54 \times 10^{-3}$ )	$1.73 \times 10^{-6}$	$3.49 \times 10^{-6}$
3 Grouping Approach (with Davis-Besse's Experiences per nozzle-year: $1.55 \times 10^{-2} / 0.503 \times 10^{-2} = 3.2$ )	$2.18 \times 10^{-6}$ ( $8.0 \times 10^{-4}$ )	$5.41 \times 10^{-7}$	$1.08 \times 10^{-6}$
Credit to All Inspections	$1.30 \times 10^{-7}$ ( $4.81 \times 10^{-5}$ )	$3.25 \times 10^{-8}$	$6.50 \times 10^{-8}$

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