TABLE 7.1-2
Comparison of Reactor Types for Limiting Off-Site Dose Consequences

Design Basis Accident	ESP EAB Dose TEDE (rem)	Vendor EAB Dose TEDE (rem)	ESP/Vendor EAB X/Q Ratio	ESP LPZ Dose TEDE (rem)	Vendor LPZ Dose TEDE (rem)	ESP/Vendor LPZ X/Q Ratio
AP1000 Reactor						
Main Steam Line Break						
Accident-initiated Iodine Spike						
0 -2 hrs	4.75E-02	8.00E-01	5.93E-02			
0 - 8 hrs				1.61E-02	6.4E-01	2.52E-02
8 – 24 hrs				1.20E-02	4.2E-01	2.85E-02
24 -96 hrs				2.16E-02	6.3E-01	3.43E-02
Total	**4.75E-02**	**8.00E-01**		**4.97E-02**	**1.69E+00**	
Preexisting Iodine Spike						
0 -2 hrs	4.15E-02	7.00E-01	5.93E-02			
0 - 8 hrs				6.04E-03	2.40E-01	2.52E-02
8 – 24 hrs				2.28E-03	8.00E-02	2.85E-02
24 -96 hrs				4.45E-03	1.30E-01	3.43E-02
Total	**4.15E-02**	**7.00E-01**		**1.28E-02**	**4.50E-01**	
Reactor Coolant Pump Locked Rotor						
0 -2 hrs	1.48E-01	2.50E+00	5.93E-02			
0 - 8 hrs				1.51E-02	6.00E-01	2.52E-02
Total	**1.48E-01**	**2.50E+00**		**1.51E-02**	**6.00E-01**	
Control Rod Ejection Accident						
0 -2 hrs	1.78E-01	3.00E+00	5.93E-02			
0 - 8 hrs				3.53E-02	1.4E+00	2.52E-02
8 – 24 hrs				7.41E-03	2.6E-01	2.85E-02
24 -96 hrs				1.58E-03	4.6E-02	3.43E-02
96 - 720 hrs				5.45E-04	1.2E-02	4.55E-02
Total	**1.78E-01**	**3.00E+00**		**4.48E-02**	**1.72E+00**	

TABLE 7.1-2
Comparison of Reactor Types for Limiting Off-Site Dose Consequences

Design Basis Accident	ESP EAB Dose TEDE (rem)	Vendor EAB Dose TEDE (rem)	ESP/Vendor EAB X/Q Ratio	ESP LPZ Dose TEDE (rem)	Vendor LPZ Dose TEDE (rem)	ESP/Vendor LPZ X/Q Ratio
Steam Generator Tube Rupture Accident-initiated Iodine Spike						
0 -2 hrs	8.90E-02	1.50E+00	5.93E-02	-	-	-
0 – 8 hrs				4.53E-03	1.80E-01	2.52E-02
8 – 24 hrs				2.05E-03	7.2E-02	2.85E-02
Total	**8.90E-02**	**1.50E+00**		**6.60E-03**	**2.52E-01**	
Preexisting Iodine Spike						
0 –2 hrs	1.78E-01	3.00E+00	5.93E-02	-	-	
0 - 8 hrs				8.06E-03	3.20E-01	2.52E-02
8 - 24 hrs				7.41E-04	2.60E-02	2.85E-02
Total	**1.78E-01**	**3.00E+00**		**8.80E-03**	**3.46E-01**	
Small Line Break						
0 -2 hrs	7.71E-02	1.30E+00	5.93E-02			
0 - 8 hrs				7.56E-03	3.00E-01	2.52E-02
Total	**7.71E-02**	**1.30E+00**		**7.56E-03**	**3.00E-01**	
Fuel Handling Accident						
0 -2 hrs	1.42E-01	2.40E+00	5.93E-02			
0 - 8 hrs				1.51E-02	6.00E-01	2.52E-02
Total	**1.42E-01**	**2.40E+00**		**1.51E-02**	**6.00E-01**	
Loss of Coolant Accident						
1 - 3 hrs	1.47E+00	2.48E+01	5.93E-02			
0 - 8 hrs				2.32E-01	9.20E+00	2.52E-02
8 - 24 hrs				9.41E-03	3.30E-01	2.85E-02
24 -96 hrs				1.06E-02	3.10E-01	3.43E-02
96 - 720 hrs				1.32E-02	2.90E-01	4.55E-02
Total	**1.47E+00**	**2.48E+01**		**2.65E-01**	**1.01E+01**	

TABLE 7.1-2
Comparison of Reactor Types for Limiting Off-Site Dose Consequences

Design Basis Accident	ESP EAB Dose TEDE (rem)	Vendor EAB Dose TEDE (rem)	ESP/Vendor EAB X/Q Ratio	ESP LPZ Dose TEDE (rem)	Vendor LPZ Dose TEDE (rem)	ESP/Vendor LPZ X/Q Ratio
ABWR						
Main Steam Line Break						
Max Equilibrium Iodine Activity						
0 -2 hrs	3.43E-03	1.32E-01	2.60E-02			
0 - 8 hrs				3.28E-04	1.50E-02	2.18E-02
Total	**3.43E-03**	**1.32E-01**		**3.28E-04**	**1.50E-02**	
Preexisting Iodine Spike						
0 -2 hrs	6.85E-02	2.63E+00	2.60E-02			
0 - 8 hrs				6.54E-03	3.00E-01	2.18E-02
Total	**6.85E-02**	**2.63E+00**		**6.54E-03**	**3.00E-01**	
Control Rod Drop Accident			Not Applicable to the ABWR design			
Small Line Break						
0 -2 hrs	2.97E-03	1.14E-01	2.60E-02			
0 - 8 hrs				5.75E-04	2.64E-02	2.18E-02
Total	**2.97E-03**	**1.14E-01**		**5.75E-04**	**2.64E-02**	
Fuel Handling Accident						
0 -2 hrs	8.04E-02	3.09E+00	2.60E-02			
0 - 8 hrs				9.78E-03	4.49E-01	2.18E-02
Total	**8.04E-02**	**3.09E+00**		**9.78E-03**	**4.49E-01**	
Loss of Coolant Accident						
0 - 2 hrs	2.35E-01	9.04E+00	2.60E-02			
0 - 8 hrs				3.78E-02	1.73E+00	2.18E-02
8 - 24 hrs				3.20E-02	1.08E+00	2.97E-02
24 -96 hrs				1.65E-01	2.99E+00	5.51E-02
96 - 720 hrs				5.29E-01	3.92E+00	1.35E-01
Total	**2.35E-01**	**9.04E+00**		**7.63E-01**	**9.73E+00**	