

TABLE V-15

Summary of Exposure Risks for Alternative 2, Subcase 3 – Glass Stored in SRP Bedrock

Event	Maximum Individual Dose, rem	Population Dose for Maximum Year, man-rem	Probability, /year	Maximum Risk, man-rem/year
Removal from Tanks				
Routine Releases	Negligible	1.4	1.0	1.4
Sludge Spill	5.0×10^{-4}	1.5×10^1	5.0×10^{-2}	7.5×10^{-1}
Spill at Inlet	1.2×10^{-3}	3.7×10^1	5.0×10^{-2}	1.9
Tornado	2.0×10^{-3}	5.4×10^1	6.0×10^{-4}	3.2×10^{-2}
Spill	2.9×10^{-2}	1.1×10^3	5.0×10^{-3}	5.4
Explosion	7.8	3.0×10^4	1.0×10^{-4}	3.0
Sabotage	1.2×10^{-2}	3.5×10^5	1.0×10^{-5}	3.5
Below-Ground Leaks	1.5×10^{-1}	1.7×10^5	1.0×10^{-5}	1.7
Processing				
Routine Releases	2.2×10^5	3.0	1.0	3.0
Process Incidents	$<1.0 \times 10^{-5}$	4.2×10^{-1}	1.0	4.2×10^{-1}
Sabotage	4.2×10^1	8.9×10^4	1.0×10^{-5}	8.9×10^{-1}
Airplane Crash	1.5×10^{-1}	3.1×10^2	7.0×10^{-6}	2.2×10^{-5}
Transportation	Not applicable	Not applicable	Not applicable	Not applicable
Storage				
Expected Releases	Negligible	1.3×10^2	1.0	1.3×10^2
Time-Integrated Risk, 300 years man-rem ^a		3.4×10^2		
Time-Integrated Risk, 10,000 years, man-rem		3.4×10^2		

a. Integrated annual population risk, accounting for radioactive decay and population growth by a factor of 5.