

APPENDIX 3.0-3 WCS LLRW DISPOSAL CALCULATIONS

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Calculation Reference Number	Calculation Title
3.0-3.1	Surface Water Diversion
3.0-3.2	Removed
3.0-3.3	Removed
3.0-3.4	Run-off Removal and Water Balance Calculations
3.0-3.5	Removed
3.0-3.6	Removed
3.0-3.7	Water Tank (Contact and Storm Water) Design
3.0-3.8	Liner (and Cover) System Stress Analysis
3.0-3.9	Concrete Canister Structural Design Analyses
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	Section A-3.0: Grouting of Canister Interior with Addendum
	Section A-4.0: Canister Cover at Federal Site
	Section A-5.0: Lateral Soil Loads, Perimeter Cylindrical Canisters at Compact Site
	Section A-6.0: Cast-In-Place cover Slabs for Compact Site
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	Section A-9.0: Degraded Canister after 500 Years
	Section A-10.0: Full Burial Loading at Federal Site
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	SAP2000 Version 7.44 Input Files
	Section A-2.1
	Section A-2.2
	Section A-3.1
	Section A-3.2
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	Section A-5.1
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	Section A-6.3
	Section A-6.4
	Section A-9.1
	Section A-9.2
	Section A-9.3
	Section A-9.4
3.0-3.10	Chloride Attack of Concrete Degradation
3.0-3.11	Concrete Canister Degradation Analysis
3.0-3.12	Removed

**APPLICATION FOR LICENSE TO AUTHORIZE NEAR-SURFACE
LAND DISPOSAL OF LOW-LEVEL RADIOACTIVE WASTE
Appendix 3.0-3: WCS LLRW Disposal Calculations**

Calculation Reference Number	Calculation Title
3.0-3.13	Removed
3.0-3.14	Removed
3.0-3.15	Removed
3.0-3.16	Technical Data (and Cost) For Leachate Collection Pumps
3.0-3.17	Technical Data (and Cost) for Leak Detection Pumps
3.0-3.18	Erosion, Water (Universal Soil Loss Equation), and Wind
3.0-3.19	Red Bed Ledge Stormwater Run-On
3.0-3.20	Removed
3.0-3.21	Removed
3.0-3.22	Leachate Collection and Leak Detection
3.0-3.23	Pipe Strength and Liner System Analyses Continued
3.0-3.24	RCRA Facility Leachate and Leak Rate Data Reduction
3.0-3.25	Long-Term Strength of Concrete
3.0-3.26	Thermal Heating of WCS Waste
3.0-3.27	Removed
3.0-3.28	Removed
3.0-3.29	SWAT Validation of Universal Soil Loss Equation Estimate of Evapotranspiration Cover Erosion
3.0-3.30	Removed
3.0-3.31	Building Mechanical
3.0-3.32	Building Electrical
3.0-3.33	Building Structural
3.0-3.34	Concrete Barrier Degradation
3.0-3.35	Roadway Section Design
3.0-3.36	Fire Main and Pump Sizing