

Listing of Computer Files Contained in Enclosure 12

Disk ID No. (size)	Discipline	System/Component	File Series (topics)	Number of Files
Enclosure 12 One Computer Hard Drive Total (255.25 GB) Shielding (1.55 GB) Structural (26.82 GB) Thermal (227.17 GB)	Shielding	EOS-TC125 / EOS-37PTH DSC	<p>Section 6.4.3: EOS-TC125/135 Dose Rates for Failed and Damaged Fuel Folder:\Shielding\Section 6.4.3 EOS TC125 Damaged Failed</p> <ul style="list-style-type: none"> - subfolders for five normal condition cases and two accident cases 	38
		EOS-TC125 / EOS-37PTH DSC	<p>Section 6.4.3: EOS-TC125/135 Dose Rates for HLZC 5 Folder:\Shielding\Section 6.4.3 EOS TC125 HLZC5</p>	6
		EOS-HSM / EOS-37PTH DSC	<p>Section 6.4.4: EOS-HSM Dose Rates for HLZC 5 Folder:\Shielding\Section 6.4.4 EOS-HSM HLZC5</p>	10
		HSM-MX / EOS-89BTH DSC	<p>Section A.6.4.4: HSM-MX Dose Rates Folder:\Shielding\Section A.6.4.4 HSM-MX</p> <ul style="list-style-type: none"> - subfolder 1single: single reflection case - subfolder 2double: double reflection case - subfolder 3triple: triple reflection case - subfolder 4triple_accident: triple reflection accident - subfolder 5construction joint: construction joint case - subfolder 6construction joint accident: construction joint accident case 	58
		HSM-MX / EOS-89BTH DSC	<p>Section A.11.3: HSM-MX Offsite Dose Rates Folder:\Shielding\Section A.11.3 HSM-MX Offsite</p> <ul style="list-style-type: none"> - subfolder 2_1x11: two 1x11 models - subfolder 2x11: 2x11 models - subfolder 2x11accident: 2x11 accident models 	12
	Structural	NUHOMS® Matrix / seismic stability evaluation	<p>Appendix A.3.9.7 Folder: \Structural\Stability\MaxSliding</p> <p>Maximum sliding case Input and output files for the maximum sliding case (Mianzhuqingping earthquake, $\mu=0.4$) (LS-DYNA Evaluation)</p>	21
			<p>Appendix A.3.9.7 Folder: \Structural\Stability\MaxRocking</p> <p>Maximum rocking case Input and output files for the maximum rocking case (PS-10 earthquake, $\mu=0.8$) (LS-DYNA Evaluation)</p>	21

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		<p>NUHOMS® Matrix / EOS37PTH and EOS89BTH DSCs Structural Analysis in HSM-MX</p>	<p>Appendix A.3.9.1 Folder: \Structural\DSC Input and output files for the DSC seismic case on the HSM-MX DSC supports (ANSYS Evaluation) Seismic case (load case 1 in Appendix A.3.9.1.2.7.6) includes:</p> <ul style="list-style-type: none"> - 1.7g on the DSC axial direction toward the top of the DSC - 0.8g on the vertical direction - 1.7g on the DSC transverse direction - Dead weight (DSC and basket with fuel) - Internal pressure of 20 psi 	12
		<p>NUHOMS® Matrix / Concrete Evaluation</p>	<p>Appendix A.3.9.4 Folder: \Structural\HSM-MX\ANSYS Structural analysis for Dead, Live, Seismic, Normal Thermal, and Accident Thermal load cases Input and output files for structural analysis of the HSM-MX concrete structure (ANSYS Evaluation):</p> <ul style="list-style-type: none"> - Subfolder dl: Dead load - Subfolder ll: Live load - Subfolder ex: Seismic load (1g in X-direction) - Subfolder ey: Seismic load (1g in Y-direction) - Subfolder ez: Seismic load (1g in Z-direction) - Subfolder to: Normal thermal load - Subfolder ta: Accident thermal load 	53
			<p>Appendix A.3.9.4 Folder: \Structural\HSM-MX\CivilFEM\dummy_shell Calculate design forces and moments for Dead, Live, Seismic, Normal Thermal, and Accident Thermal load cases Input and output files for calculating design forces and moments for a front wall top component (Component 6) and an inclined slab component (Component 58) (CivilFEM Evaluation):</p> <ul style="list-style-type: none"> - Subfolder dl_dmsh: Component 6 and 58 for dead load - Subfolder ll_dmsh: Component 6 and 58 for live load - Subfolder ex_dmsh: Component 58 for seismic load (1g in X-direction) - Subfolder ey_dmsh: Component 58 for seismic load (1g in Y-direction) - Subfolder ez_dmsh: Component 58 for seismic load (1g in Z-direction) - Subfolder to_dmsh: Component 58 for normal thermal load - Subfolder ta_dmsh: Component 6 for accident thermal load 	65

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			<p align="center">Appendix A.3.9.4 Folder: \Structural\HSM-MX\CivilFEM\load_comb</p> <p>Design for Seismic and Accident Thermal load combination</p> <p>Input and output files for design of: an inclined slab component (Component 58) for seismic load combination (C4); and a front wall top component (Component 6) for accident thermal load combination (C7). (CivilFEM Evaluation)</p> <ul style="list-style-type: none"> - Subfolder lc4: Component 58 for seismic load combination (C4) - Subfolder lc7: Component 6 for accident thermal load combination (C7) 	47
Thermal		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Bounding normal hot storage evaluation with HLZC 7 and coarse mesh</p>	<p>Appendix A.4.5.4 (LC 1e-S in Table A.4-14) Folder: \Thermal\1-MATRIX-EOS-37PTH-LC1e-S-Normal-HLZC7-Coarse</p> <p>Input and output files for the bounding normal hot storage condition with 15 mph side wind, HLZC 7, and coarse mesh (ANSYS FLUENT Evaluation)</p>	26
		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Bounding normal hot storage evaluation with HLZC 7 and fine mesh</p>	<p>Appendix A.4.5.4 (LC 1f-S in Table A.4-14) Folder: \Thermal\2-MATRIX-EOS-37PTH-LC1f-S-Normal-HLZC7-Fine</p> <p>Input and output files for the bounding normal hot storage condition with 15 mph side wind, HLZC 7, and fine mesh (ANSYS FLUENT Evaluation)</p>	15
		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Bounding off-normal hot storage evaluation with HLZC 7 and coarse mesh</p>	<p>Appendix A.4.5.4 (LC 2-S in Table A.4-14) Folder: \Thermal\3-MATRIX-EOS-37PTH-LC2-S-OffNormal-HLZC7-Coarse</p> <p>Input and output files for the bounding off-normal hot storage condition with 15 mph side wind, HLZC 7, and coarse mesh (ANSYS FLUENT Evaluation)</p>	15
		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Bounding accident storage evaluation with HLZC 7 and coarse mesh</p>	<p>Appendix A.4.5.4 (LC 3-S in Table A.4-14) Folder: \Thermal\4-MATRIX-EOS-37PTH-LC3-S-Accident-HLZC7-Coarse</p> <p>Input and output files for the accident storage condition with 15 mph side wind, HLZC 7, and coarse mesh (ANSYS FLUENT Evaluation)</p>	17

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		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Normal hot storage evaluation with HLZC 7, coarse mesh, without wind</p>	<p>Appendix A.4.5.7.1 (LC 1a-S-P and LC 1a-S-S in Table A.4-28) Folder: \Thermal\5-MATRIX-EOS-37PTH-LC1a-S-Periodic-vs-SymmetricBC Input and output files for the normal hot storage condition without wind, HLZC 7, and coarse mesh (ANSYS FLUENT Evaluation)</p> <ul style="list-style-type: none"> - Subfolder LC1a-S-P: Load case with periodic boundary condition - Subfolder LC1a-S-S: Load case with symmetric boundary condition 	41
		<p>Updated NUHOMS[®] MATRIX with EOS-37PTH DSC / Bounding normal hot storage evaluation with HLZC 7 on End Unit Model</p>	<p>Appendix A.4.5.7.2 (LC 1e-S-E1 in Table A.4-31) Folder: \Thermal\6-MATRIX-EOS-37PTH-LC1e-S-E1-End-Unit-Model Input and output files for the bounding normal hot storage condition with 15 mph side wind, HLZC 7, and end unit model (ANSYS FLUENT Evaluation)</p>	15