2018 EM D&D Project Critical Decision Assessment Tool (CDAT) Critical Decision Assessment Tool - D&D Projects accomplished under DOE or NRC Regulations D&D Studies, D&D Detail D&D Design and Characterization Investigation, Remedial Action and Preliminary Alternative Analysis (CD-0 / Analysis, Selection (CD-2/3)and Plan (CD-1/2) ~1) Weighting Weighting Maturity Maturity Target **Maturity Target Target** Designatio Factor Value Score Value Score Value Score n A. COST Η 7.5 37.5 A1Cost Estimate 7.5 2 15 5 Cost Risk/Contingency P 3 A2 1 3 2 6 5 15 Analysis Funding 7.5 A3 Н 7.5 1 2 15 5 37.5 Requirements/Profile Independent Cost/Schedule A4 P N/A 0 2 6 5 15 3 Review Life Cycle Cost P 3 2 15 A5 3 5 1 6 P 0 3 9 5 Forecast Cost at Completion 3 N/A 15 A6 Cost Estimate for Next Α7 P 3 5 15 5 15 5 15 Phase Work Scope Subtotal Cost Element 36 72 150 B. SCHEDULE В1 Project Schedule Η 7.5 7.5 2 15 5 37.5 1 B2 P Major Milestones 3 2 6 5 15 P В3 Resource Loading 3 1 3 1 3 5 15 **B**4 1 1 5 37.5 Critical Path Management Η 7.5 7.5 7.5 Schedule Risk/Contingency P В5 3 1 3 1 3 5 15 Analysis Forecast of Schedule at P 9 B6 3 1 3 3 5 15 Completion Schedule for Next Phase В7 P 3 5 15 5 15 5 15 Work Scope Subtotal Schedule Element 42 59 150 C. SCOPE/TECHNICAL Alternative Analysis/End 21.9 C1 Η 4.4 3 13.1 5 21.9 5 State End Point Criteria and C2 Н 2 8.8 17.5 21.9 Closure Plan/Permit 4.4 Modification Functional and Performance C3 P 2.7 1 2.7 3 8.1 5 13.5 Requirements Technology Needs C4 P 2.7 3 8.1 5 13.5 5 13.5 Identified Technology Needs C5 P 2.7 2 5.4 4 10.8 5 13.5 Demonstrated C6 NEPA Documentation Η 4.4 2 8.8 4 17.5 5 21.9 P 2 4 5 C7 Plot Plan 2.7 5.4 10.8 13.5 Site Characterization (Including Surveys and Soil C8 P 3 2.7 8.1 3 8.1 5 13.5 Tests and radioactive inventory)

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				D&D Studies, Characterization and Preliminary Analysis (CD-0 / ~1)		D&D Detail Investigation, Alternative Analysis, Selection and Plan (CD-1/2)		D&D Design and Remedial Action (CD-2/3)	
		Weighting Designation	Weighting Factor	Maturity Value	Target Score	Maturity Value	Target Score	Maturity Value	Target Score
C9	Waste Acceptance Criteria (WAC)	Р	2.7	1	2.7	3	8.1	5	13.5
C10	Waste Characterization and Disposition	Н	4.4	1	4.4	3	13.1	5	21.9
C11	Pollution Prevention & Waste Minimization	P	2.7	2	5.4	3	8.1	5	13.5
C12	Waste Storage, Packaging and Transportation	Н	4.4	2	8.8	3	13.1	5	21.9
C13	Equipment Needs	P	2.7	N/A	0.0	2	5.4	5	13.5
C14	Work Plans and Work Package Completion	Н	4.4	N/A	0.0	1	4.4	5	21.9
C15	Interface Planning and Control	P	2.7	1	2.7	3	8.1	5	13.5
C16	Training Requirements	P	2.7	N/A	0.0	1	2.7	5	13.5
(' /	Long Term Surveillance and Monitoring Plan/Post Disposition Monitoring Plan	P	2.7	N/A	0.0	2	5.4	5	13.5
C18	Permits, Licenses, and Regulatory Approvals	Н	4.4	N/A	0.0	3	13.1	5	21.9
C19	Detailed D&D Design, Plans and Procedures	Н	4.4	N/A	0.0	N/A	0.0	5	21.9
C20	D&D Design/Plans, Technical, and related Safety Reviews for this phase	P	2.7	N/A	0.0	5	13.5	5	13.5
C21	Natural Phenomena	P	2.7	2	5.4	3	8.1	5	13.5
	Subtotal Scope	e/Technical Elen	nent		90		211		350
D. MANA	GEMENT PLANNIN	G AND CO	NTROL						
D1	Mission Need Statement	Н	2.2	5	11.1	5	11.1	5	11.1
D2	Acquisition Strategy and Plan	Н	2.2	3	6.7	5	11.1	5	11.1
D3	Key Project Assumptions	Р	1.8	3	5.5	4	7.3	5	9.1
D4	Project Execution Plan (PEP)	Н	2.2	1	2.2	3	6.7	5	11.1
D5	Integrated Project Team (IPT) and Charter	Р	1.8	2	3.6	3	5.5	5	9.1
D6	Decommissioning Plan (For NRC work or DOE equiv.)	Н	2.2	1	2.2	3	6.7	5	11.1
D7	Baseline Change Control	Н	2.2	1	2.2	4	8.9	5	11.1

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		Weighting Designatio n	Weighting Factor	Maturity Value	Target Score	Maturity Value	Target Score	Maturity Value	Target Score
D8	Project Control	P	1.8	N/A	0.0	3	5.5	5	9.1
D9	Project Work Breakdown Structure (WBS)	P	1.8	1	1.8	4	7.3	5	9.1
D10	Resources Required (People/Material) for Next Phase	P	1.8	5	9.1	5	9.1	5	9.1
D11	Configuration Management	Н	2.2	1	2.2	3	6.7	5	11.1
D12	Project Risk Management Plan/Assessment	Н	2.2	2	4.4	3	6.7	5	11.1
D13	Quality Assurance Program	Н	2.2	1	2.2	4	8.9	5	11.1
D14	Value Engineering, Trade- Off, and Optimization Studies	P	1.8	1	1.8	3	5.5	5	9.1
D15	Procurement Packages	P	1.8	N/A	0.0	1	1.8	5	9.1
D16	Project Acquisition Process	P	1.8	5	9.1	5	9.1	5	9.1
D17	Funds Management	P	1.8	5	9.1	5	9.1	5	9.1
D18	Project Reviews/Assessments	P	1.8	5	9.1	5	9.1	5	9.1
D19	Stakeholder Program	Н	2.2	2	4.4	4	8.9	5	11.1
D20	Inter-Site and On-Site Coordination	P	1.8	2	3.6	3	5.5	5	9.1
	Subtotal Management Pl	anning and Cont	rol Element		91		150		200
E. SAFE	ETY								
E1	Hazard Analysis/Safety Documentation	P	5	2	10	4	20	5	25
E2	Integrated Safeguards and Security Planning	P	5	1	5	4	20	5	25
E3	ES&H Management Planning (Including ISM)	Н	15	2	30	4	60	5	75
E4	Emergency Preparedness	P	5	1	5	2	10	5	25
Subtotal Safety Element					50		110		150
			TOT	'AL	308		602		1000