

								Environmental Management	
Ph1	Ph2	Ph3	Phases		Ph6	Ph8	2nd	3rd	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Frog. Mgmt/Infra.	Lvl	Lvl	
									<b>ENVIRONMENTAL COST ELEMENT STRUCTURE</b>
	2	3	4	5			.02	.07	A/E Support
			4	5	6		.13	.05	Aboveground Vault
			4	5	6		.05	.11	Access Control Facility
1	2	3	4	5	6		.05	.08	Access Roads
			4	5			.24	.16	Activated Alumina (Adsorption/Absorption)
			4	5			.22	.01	Activated Sludge
			4	5			.26	.02	Advanced Electrical Reactor
			4	5			.26	.01	Aeration
			4	5			.26	.03	Agglomeration
1	2	3	4	5	6		.07	.08	Air Monitoring and Sampling
			4	5			.25	.02	Air Sparging
			4	5			.26	.04	Air Stripping
1	2	3	4	5	6		.08	.01	Air/Gas Sample Analysis
			4	5			.34	.11	Alkali Bed Reactor
			4	5			.22	.11	Anaerobic Sludge Digestion
			4	5	6		.17	.13	Aquatic Barrier
1	2	3	4	5	6		.05	.09	Arterial Roads/Divided Highways
			4				.15	.04	Asbestos Abatement
			4	5	6		.19	.06	Asphalt/Concrete Layer
			4	5			.30	.01	Asphalt-Base Encapsulation
			4	5			.29	.01	Asphalt-Based Encapsulation
1	2	3	4	5	6		.02	.12	Asset Recovery
			4	5			.21	.10	Baroball
			4	5			.24	.02	Base-Catalyzed Decomposition Process
	2	3					.10	.05	Bench Test
			4	5	6		.17	.02	Berms
1	2	3	4	5	6		.08	.10	Bioaccumulation Studies
1	2	3	4	5	6		.08	.09	Bioassay Sample Analysis
			4	5			.34	.01	Biofiltration
			4	5			.21	.01	Biological Barriers
			4	5			.22	.10	Biological Lagoons
			4	5			.22	.03	Biopile (Bioheap, Biomound)
			4	5			.25	.21	Bioslurping
1	2	3	4	5	6		.08	.08	Biota Sample Analysis
			4	5			.21	.03	Bioventing
			4	5			.25	.19	Blast Enhanced Fracturing
			4				.14	.03	Blast Mats
			4				.14	.04	Blast Shields
			4	5	6		.13	.17	Borehole Disposal
1	2	3	4				.05	.07	Borrow Pit/Haul Roads
1	2	3	4	5	6		.05	.13	Bridges
			4				.14	.02	Brush Clearing with OE
			4				.14	.13	Bunkers (Temporary)
			4	5			.30	.02	Calcination
			4	5			.34	.05	Catalytic Oxidation
1	2	3	4	5			.32	.10	Certification & Shipping
			4	5	6		.17	.06	Channels/Waterways/Ditches
			4	5			.26	.05	Chelation
1	2	3	4	5	6		.03	.02	Chemical Data Acquisition Plan
			4	5			.24	.18	Chemical Extraction (Solvent/Acid/Alkaline Extraction)
			4	5			.24	.03	Chemical Hydrolysis
			4	5			.24	.08	Chemical Oxidation / Reduction
			4	5			.24	.04	Chlorination
			4	5	6		.17	.07	Chutes or Flumes
1	2	3	4	5	6		.05	.52	Clean Site Work
1	2	3	4	5	6		.05	.02	Cleanup/Landscaping/Revegetation
1	2	3	4				.05	.03	Clear and Grub
			4	5			.24	.15	Coagulation / Flocculation / Precipitation
			4	5	6		.25	.15	Coating

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
									<b>ENVIRONMENTAL COST ELEMENT STRUCTURE</b>
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			
1	2	3	4	5	6		.09	.12	Combined Data Management
	2						.04	.18	Combined Feasibility Document
1	2	3	4	5	6		.04	.15	Combined Report
1	2	3	4	5	6		.09	.11	Combined Sample Management
1	2	3	4	5	6		.03	.17	Combined Workplan
			4	5			.21	.04	Cometabolic Treatment
			4	5			.22	.04	Cometabolic Treatment
1	2	3	4	5	6		.05	.29	Communications Systems
1	2	3	4	5	6		.02	.02	Community Relations
1	2	3	4	5	6		.03	.07	Community Relations Plan
			4	5			.26	.07	Compaction/Volume Reduction
			4	5			.22	.12	Composting
1	2	3	4	5	6		.05	.35	Compressed Air/Nitrogen Systems
1	2	3	4	5	6		.05	.53	Concrete
			4	5			.34	.13	Condensation
1	2	3	4	5	6	8	.02	.13	Configuration Management
			4	5	6		.13	.10	Confined Disposal Facilities (CDFs)
			4	5			.21	.05	Constructed Wetlands
			4	5	6		.12	.05	Contact Handled Storage
1	2	3	4	5			.32	.15	Container Handling
1	2	3	4	5	6		.07	.14	Contaminated Building Survey/Structures/Equipment Samples
			4	5			.19	.01	Contaminated Soil Collection (Excavation)
1	2	3	4	5	6		.02	.15	Contract Closeout
	2	3	4				.02	.08	Contractor Construction Management
			4	5	6		.12	.02	Conventional Storage/Warehouses
1	2	3	4	5	6		.05	.64	Conveying Systems
1	2	3	4	5	6		.09	.02	Coordinate with Sample MGT Personnel/Regulators
1	2	3	4	5	6	8	.03	.22	Corrective Action Plan Reporting
			4	5			.11	.01	Covered Treatment Train Technologies Unit
			4	5			.25	.03	Crushing
			4	5			.26	.06	Crushing
			4	5			.26	.42	Cryogenics
			4	5			.25	.04	Cryogenics (Frozen Soil Barrier)
	2	3					.10	.02	Data Collection
1	2	3	4	5			.03	.06	Data Management Plan
1	2	3	4	5	6		.09	.08	Data Reduction, Tabulation and Evaluation/Analysis
			4	5			.09	.13	Data Review for Effectiveness
1	2	3	4	5	6		.09	.07	Data Usability Evaluation/Field QA/QC
			4	5			.31	.02	Deactivation
			4	5			.26	.09	Decant/Phase Separation
1	2	3					.03	.15	Decommissioning Plan
		3	4				.04	.12	Decontamination/Dismantlement Project Designs
			4	5	6		.13	.15	Deep Well Injection
			4	5			.24	.05	Dehalogenation
1	2	3	4	5	6		.05	.36	Demobilization
			4				.14	.01	Demolition for OE Removal
1	2	3	4	5	6		.09	.05	Derived Waste Disposal (Gas, Liquid, Solid)
	2	3					.10	.09	Design, Procure, Test New Procedures/Specifications
	2	3					.10	.04	Design/Procure New Tools and Equipment
	2						.04	.06	Develop Environmental Alternatives
	2	3					.10	.03	Develop Treatability Workplan
			4	5	6		.05	.10	Diesel Generator
			4				.25	.20	Directional Wells (Enhancement)
			4	5			.33	.09	Discharge to POTW
1	2	3	4	5			.05	.04	Dismantling and Demolition (Non-Hazardous)
			4	5			.31	.12	Dismantling and Removal of Biological and Thermal Shield
			4	5			.31	.09	Dismantling and Removal of Contaminated Equipment /Material
			4	5			.31	.11	Dismantling and Removal of Primary and Auxiliary Systems
			4	5			.31	.14	Dismantling of In-Cell Equipment
			4	5			.31	.19	Dismantling of Intermediate Fuel Storage Facility

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.31	.18	Dismantling of Temporary Fuel Storage Facility
			4	5			.31	.10	Dismantling Operations on Reactor Vessel & Internals
			4	5			.31	.21	Dismantling or Demolition of Other Facilities
			4				.13	.19	Disposal Facility Commissioning Activities
			4	5	6		.13	.03	Disposal Facility Front-End - High/Remote Hazard
			4	5	6		.13	.02	Disposal Facility Front-End - Low/Moderate Hazard
			4	5	6		.13	.18	Disposal Fees and Taxes
			4	5			.26	.10	Dissolved Air Floatation
			4	5			.26	.11	Distillation
1	2	3	4	5	6		.09	.10	Document Data Evaluation
	2						.04	.10	Document FS (CMS)
	2	3					.10	.11	Document Treatability Study
1	2	3	4	5	6		.05	.58	Doors and Windows
			4	5			.25	.23	Draw-Down Pumping
			4	5	6		.17	.01	Dredging/Excavating
			4				.15	.01	Drum Removal
			4	5			.25	.22	Dual Phase Extraction (Multi-Phase)
			4	5			.26	.12	E-Beam
1	2	3	4	5	6		.07	.07	Ecological Investigation
1	2						.04	.03	Ecological Risk Assessment
1	2	3	4	5	6		.07	.12	Ecological Sampling
1	2	3	4	5	6		.05	.66	Electrical
			4	5			.26	.13	Electrochemical Oxidation
			4	5			.25	.16	Electrokinetics
			4	5			.26	.15	Electrolysis
1	2	3	4				.03	.13	Emergency Response Plans/Report/Approval
			4	5			.30	.10	Emulsified Asphalt
1	2						.02	.11	Enforcement
			4	5	6		.19	.08	Engineered Barrier
			4	5	6		.13	.11	Engineered Disposal
	2	3					.04	.16	Engineering Evaluation/Cost Analysis
			4	5			.21	.06	Enhanced Bioremediation
		3	4				.03	.20	Environmental Action Implementation Plan
1	2						.04	.05	Environmental Investigation Report
			4	5			.11	.10	Environmental Management High Hazard Functional Area (e.g., ALLW, MALLW, TRU, Spent Fuel, & CWM)
			4	5			.11	.07	Environmental Management High Hazard/Remote Treatment Front-End
			4	5			.11	.08	Environmental Management Low Hazard Functional Area (e.g., Hazardous/Toxic)
			4	5			.11	.06	Environmental Management Low/Moderate Hazard Treatment Front-End
			4	5			.11	.09	Environmental Management Moderate Hazard Functional Area (e.g., Hazardous/Toxic, LLW & MLLW)
		3	4				.04	.11	Environmental Management Project Design
			4	5			.11	.11	Environmental Management Remote Functional Area (e.g., ALLW, MALLW, TRU, Spent Fuel, & CWM)
1	2	3	4				.03	.14	Environmental Workplans
			4	5			.26	.16	Equalization
			4	5	6		.17	.12	Erosion Control
	2						.04	.08	Evaluate Alternatives
			4	5			.26	.17	Evaporation
			4				.14	.08	Excavate by Hand 0' - 2' Depth
			4				.14	.09	Excavate with Heavy Equipment > 2' Depth
1	2	3	4				.05	.05	Excavation and Earthwork
			4	5	6		.18	.01	Extraction Wells
			4	5			.12	.08	Facilities and Sheds for Temporary Storage
			4	5			.31	.16	Facility (Controlled Area) Hardening, Isolation or Entombment
			4				.11	.13	Facility Commissioning Activities
		3	4				.04	.13	Facility Design
1	2	3	4	5	6	8	.06	.01	Facility Transition
1	2	3	4	5	6		.05	.14	Fencing
	2	3					.10	.07	Field Test

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
			4	5			.26	.19	Filter Presses
1	2	3	4	5	6		.05	.59	Finishes
			4	5			.34	.12	Flameless Thermal Oxidation
			4	5			.34	.14	Flaring
			4	5	6		.17	.03	Floodwalls
			4	5			.24	.17	Forager Sponge (Adsorption/Absorption)
			4	5			.25	.05	Fracturing (Hydrofracturing)
			4	5			.25	.18	Fracturing (Pneumatic)
			4	5			.26	.21	Freeze Crystallization
1	2	3	4	5	6		.05	.21	Fuel Distribution Pipelines
1	2	3	4	5	6		.05	.22	Fuel Storage Tanks
			4	5	6		.16	.04	Fugitive Dust/Vapor/Gas Emission Control
			4	5			.11	.05	Full-Scale Environmental Management Plant/Facility
			4	5			.22	.13	Fungal Biodegradation (White Rot Fungus)
1	2	3	4	5	6		.05	.62	Furnishings
1	2	3	4	5	6		.05	.20	Gas Distribution Pipelines
1	2	3	4	5	6		.08	.05	Gas Waste Sample Analysis
			4	5	6		.16	.03	Gas/Vapor Collection at Lagoon Cover
			4	5	6		.16	.01	Gas/Vapor Collection Trench System
			4	5	6		.16	.02	Gas/Vapor Collection Well System
1	2	3	4	5	6		.05	.51	General Requirements
			4	5			.22	.05	Genetically Engineered Organism
			4	5	6		.13	.13	Geologic Disposal
1	2	3	4	5	6		.07	.06	Geophysical/Geotechnical Investigation
			4	5			.24	.01	Glycolate/ Alkali Metal/Polyethylene Glycol (A/PEG)
						8	.01	.04	Government - Personnel Resources
						8	.01	.06	Government - Program Infrastructure
						8	.01	.05	Government - Program Support
	2	3	4				.02	.09	Government Construction Management
			4	5			.34	.10	Granular Activated Carbon Adsorption Gas/Vapor
			4	5			.26	.23	Granular Activated Carbon Adsorption- Liquid
			4	5			.26	.41	Gravity Separation
1	2	3	4	5	6		.08	.02	Groundwater Sample Analysis
1	2	3	4	5	6		.07	.09	Groundwater Sampling/Monitoring
			4	5	6		.18	.05	Grout Curtain
			4	5			.29	.02	Grout Injection
1	2						.04	.01	Hazardous, Toxic, and Radioactivity Ranking System (HRS)
1	2	3	4	5		8	.03	.04	Health and Safety Plan
1	2	3	4	5	6		.05	.23	Heating/Cooling Distribution System
			4	5			.26	.24	Heavy Media Separation
			4	5			.34	.02	High Energy Corona
			4	5			.26	.25	High Pressure Aqueous Destruction
			4	5			.27	.05	High Temperature Thermal Desorption
			4	5			.28	.01	High Temperature Thermal Desorption
1	2	3	4	5	6		.07	.17	Historical/Cultural/Archeological Investigation
			4	5			.31	.04	Hot Cell Equipment Modification
			4	5			.28	.15	Hot Gas Decontamination
1	2						.04	.02	Human Health Risk Assessment
			4	5			.24	.06	Hydrogen reduction
1	2	3	4	5	6		.07	.04	Hydrogeological Investigations - Groundwater
1	2	3	4	5	6		.07	.05	Hydrogeological Investigations - Surface Water
1	2	3	4	5	6		.09	.03	Implement EPA-Approved Laboratory QA Program
1	2	3	4	5			.03	.12	Implementation Plans
			4	5	6		.05	.43	Important to Safety Switch Gear Building
			4	5			.29	.05	In Situ Pipe Grouting
			4	5			.29	.04	In Situ Vitrification
			4	5			.28	.02	Incineration
			4	5	6		.02	.10	Independent Contractor Verification of Cleanup or Reuse
1	2	3	4	5	6	8	.06	.03	Indoor Surveillance and Maintenance
			4	5			.20	.01	Industrial Vacuuming

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra			ENVIRONMENTAL COST ELEMENT STRUCTURE
1	2	3	4	5	6		.02	.18	Information Management
			4	5	6		.18	.02	Injection Wells
1	2	3	4	5	6	8	.02	.04	Institutional Controls
			4	5	6		.13	.12	Intermediate Depth Disposal (Burial Ground/Trench/Pits)
			4	5			.34	.09	Internal Combustion Engine
			4	5			.25	.01	In-Well Air Stripping/Circulating Wells
			4	5			.24	.07	Ion Exchange
			4	5	6		.17	.10	Lagoons/Basins/Tanks
			4	5			.22	.06	Land Farming
			4	5			.21	.07	Land Treatment
			4	5	6		.13	.04	Landfill
			4	5	6		.19	.07	Landfill Cap Enhancements
			4	5			.25	.06	Lasagna Process
			4	5			.25	.07	Laser (Cutting)
			4	5			.25	.08	Laser (Surface Decontamination)
1	2	3	4	5	6		.02	.20	<b>Lessons Learned Management</b>
			4	5	6		.17	.04	Levees/Dams/Dike
1	2	3	4	5	6		.05	.30	Lighting
			4	5			.26	.26	Lignin Adsorption / Sorptive Clays
1	2	3	4	5	6		.08	.06	Liquid Material/Waste Sample Analysis
	2	3					.10	.01	Literature Search
1	2	3	4	5	6		.02	.19	Litigation Support
1	2	3	4	5			.05	.06	Load and Haul
			4	5			.27	.07	Low Temperature Thermal Desorption
			4	5			.28	.03	Low Temperature Thermal Desorption
			4	5			.26	.27	Magnetic Separation
1	2	3	4	5		8	.03	.09	Management Plan
1	2	3	4	5	6		.05	.54	Masonry
			4	5	6		.03	.23	Material Disposition Plan
1	2	3	4	5	6		.07	.13	Material/Waste Sampling
1	2	3	4	5	6		.05	.65	Mechanical
			4	5			.26	.20	Media Filtration
			4	5			.26	.45	Membrane Pervaporation
			4	5			.34	.04	Membrane Separation
			4	5			.26	.28	Membrane Separation-Electrodialysis
1	2	3	4	5	6		.05	.55	Metals
1	2	3	4	5	6		.07	.02	Meteorological Monitoring
			4	5	6		.12	.07	Mixed Waste Storage
1	2	3	4	5	6		.08	.11	Mobile - Air/Gas Sample Analysis
1	2	3	4	5	6		.08	.18	Mobile - Biota Sample Analysis
1	2	3	4	5	6		.08	.15	Mobile - Gas Waste Sample Analysis
1	2	3	4	5	6		.08	.12	Mobile - Groundwater Sample Analysis
1	2	3	4	5	6		.08	.16	Mobile - Liquid Waste Sample Analysis
1	2	3	4	5	6		.08	.14	Mobile - Soil/Sediment Sample Analysis
1	2	3	4	5	6		.08	.17	Mobile - Solid Waste Sample Analysis
1	2	3	4	5	6		.08	.13	Mobile - Surface Water Sample Analysis
1	2	3	4	5	6		.05	.01	Mobilization
1	2	3	4	5	6		.09	.09	Modeling
			4	5			.30	.08	Modified Sulfur Cement
			4	5			.28	.14	Molten Metal
			4	5			.28	.04	Molten Salt Oxidation
1	2	3	4	5	6		.07	.15	Monitoring Well
			4	5			.26	.43	Nanofiltration
			4		6		.21	.08	Natural attenuation
			4	5			.23	.03	Neutralization
			4	5			.24	.12	Neutralization
			4	5			.31	.01	Nuclear Facility Shutdown and Inspection
1	2	3	4	5			.32	.03	OE Off-Site Destruction Transportation to DOD Facility
			4				.14	.12	OE On-Site Destruction
1	2	3	4	5	6		.33	.08	Off-Site Commercial Disposal Costs, Fees, and Taxes

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			
									<b>ENVIRONMENTAL COST ELEMENT STRUCTURE</b>
1	2	3	4	5	6		.33	.06	Off-site DOE Disposal Costs, Fees, and Taxes
1	2	3	4	5	6		.33	.07	Off-Site Other Government Disposal Costs, Fees, and Taxes
			4	5			.26	.30	Oil / Water Separation
1	2	3	4	5	6		.33	.05	On-site Commercial Disposal Costs, Fees, and Taxes
1	2	3	4	5	6		.33	.04	On-site DOE Disposal Costs, Fees, and Taxes
			4	5			.28	.05	Open Burn/Open Detonation
						8	.01	.9x	Other
1	2	3	4	5	6	8	.02	.9x	Other
1	2	3	4	5	6	8	.03	.9x	Other
1	2	3	4	5	6		.04	.9x	Other
1	2	3	4	5	6	8	.05	.9x	Other
1	2	3	4	5	6	8	.06	.9x	Other
1	2	3	4	5	6		.07	.9x	Other
1	2	3	4	5	6		.08	.9x	Other
1	2	3	4	5	6		.09	.9x	Other
	2	3					.10	.9x	Other
			4	5			.11	.9x	Other
			4	5	6		.12	.9x	Other
			4	5	6		.13	.9x	Other
			4		6		.15	.9x	Other
			4	5	6		.16	.9x	Other
			4	5	6		.17	.9x	Other
			4				.18	.9x	Other
			4	5	6		.19	.9x	Other
			4	5			.20	.9x	Other
			4	5			.21	.9x	Other
			4	5			.22	.9x	Other
			4	5			.23	.9x	Other
			4	5			.24	.9x	Other
			4	5	6		.25	.9x	Other
			4	5			.26	.9x	Other
			4	5			.27	.9x	Other
			4	5			.28	.9x	Other
			4	5			.29	.9x	Other
			4	5			.30	.9x	Other
			4	5			.31	.9x	Other
1	2	3	4	5			.32	.9x	Other
1	2	3	4	5	6		.33	.9x	Other
			4	5			.34	.9x	Other
			4				.14	.9x	Other (Use Numbers 90-99)
1	2	3	4	5	6	8	.9x		OTHER (Use Numbers 90-99)
1	2	3	4	5	6	8	.06	.02	Outdoor Surveillance and Maintenance
1	2	3	4	5	6		.05	.31	Overhead Electrical Distribution
			4	5			.23	.04	Oxidation / Reduction
			4	5			.23	.02	Oxygen Release Compounds
			4	5			.24	.09	Oxygen Release Compounds
			4	5			.24	.10	Ozonation
			4	5	6		.13	.09	Pads (Tumulus/Retrievable Storage/Other)
1	2	3	4	5	6		.05	.15	Parking Lots
			4	5			.25	.09	Passive/Reactive Treatment Wall
1	2	3	4	5	6		.09	.06	Perform Data Validation
						8	.01	.01	Personnel Resources
			4	5			.21	.09	Phytoremediation
	2	3					.10	.06	Pilot-Scale Test
			4				.15	.05	Piping & Pipeline Removal
			4	5			.28	.06	Plasma
1	2	3	4	5	6		.03	.05	Pollution Control and Mitigation Plan
			4	5			.30	.09	Polyethylene Extrusion
			4	5			.30	.03	Polymer Based Encapsulation
1	2	3	4	5	6	8	.05	.37	Population Relocation

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
									<b>ENVIRONMENTAL COST ELEMENT STRUCTURE</b>
		3	4				.02	.05	Post Design Support
			4	5	6		.03	.16	Post RA/D&D Monitoring Plan
			4				.04	.19	Post-Construction Design Report
			4	5			.29	.03	Pozzolan Process
			4	5			.30	.04	Pozzolan Process (Lime/Portland Cement)
			4	5			.31	.08	Preparation and Decontamination for Area and Equipment
			4	5			.31	.03	Preparation for Dormancy
1	2	3	4	5	6		.09	.01	Prepare and Ship Environmental Samples
	2	3	4	5			.02	.06	Procurement and Warehousing of Equipment and Material
	2	3					.10	.14	Product Qualification, Characterization, and Certification
						8	.01	.03	Program Infrastructure
						8	.01	.02	Program Support
1	2	3	4	5	6		.02	.01	Project Management/Support/Administration
1	2	3	4	5	6		.02	.14	Project Safety and Health
1	2	3					.03	.18	Proposed Plan
1	2	3	4	5	6		.09	.04	Provide Sample Management
			4	5	6		.17	.11	Pumping/Draining/Collection
			4	5			.20	.03	Pumping/Draining/Collection
			4	5			.28	.07	Pyrolysis
			4	5			.20	.02	Radioactive Specific Waste Containment
			4	5			.27	.08	Radiofrequency/Electromagnetic Heating
			4	5			.31	.07	Radiological Inventory Categorization for D&D
1	2	3	4	5	6		.05	.12	Railroad Tracks and Crossing
			4	5	6		.19	.04	RCRA C Cap
			4	5	6		.19	.05	RCRA D Cap
		3					.03	.19	RCRA Permit Preparation/Modification (see also X.02.03.05.01 and .02.03.06)
1	2	3	4	5	6		.08	.19	Real Time - Air/Gas Sample Analysis
1	2	3	4	5	6		.08	.23	Real Time - Gas Waste Sample Analysis
1	2	3	4	5	6		.08	.20	Real Time - Groundwater Sample Analysis
1	2	3	4	5	6		.08	.24	Real Time - Liquid Waste Sample Analysis
1	2	3	4	5	6		.08	.22	Real Time - Soil/Sediment Sample Analysis
1	2	3	4	5	6		.08	.25	Real Time - Solid Waste Sample Analysis
1	2	3	4	5	6		.08	.21	Real Time - Surface Water Sample Analysis
1	2	3	4	5	6		.02	.16	Realty Services
	2	3					.04	.17	Record of Decision
	2						.04	.09	Refinement of Alternatives
1	2	3	4	5	6		.02	.17	Regulatory Agency Oversight Staff
1	2	3	4	5	6		.02	.03	Regulatory Interaction
1	2	3	4	5	6		.05	.38	Relocated Distribution Systems
			4	5	6		.12	.06	Remote Handled Storage
			4	5			.31	.17	Removal of All Other Facilities, or Entire Contaminated Facility
			4				.14	.11	Removal of Chemical Warfare Material (CWM)
			4	5			.31	.06	Removal of Fuel Handling Equipment
			4	5			.31	.15	Removal of Other Material and Equipment from Containment Structure
			4	5			.31	.13	Removal of Pool Linings
			4				.31	.20	Reprocessing Costs
							.12	.01	Reserved for Future Use
							.13	.01	Reserved for Future Use
							.21	.02	Reserved for Future Use
			4	5			.22	.02	Reserved for Future Use
			4	5			.23	.01	Reserved for Future Use
							.25	.13	Reserved for Future Use
							.26	.14	Reserved for Future Use
							.26	.22	Reserved for Future Use
							.27	.03	Reserved for Future Use
							.27	.06	Reserved for Future Use
							.28	.08	Reserved for Future Use
							.30	.05	Reserved for Future Use
1	2	3	4	5			.32	.04	Reserved for Future Use
1	2	3	4	5			.32	.05	Reserved for Future Use

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			ENVIRONMENTAL COST ELEMENT STRUCTURE
1	2	3	4	5			.32	.06	Reserved for Future Use
1	2	3	4	5			.32	.07	Reserved for Future Use
1	2	3	4	5			.32	.08	Reserved for Future Use
1	2	3	4	5			.32	.09	Reserved for Future Use
							.33	.01	Reserved for Future Use
							.33	.02	Reserved for Future Use
							.33	.03	Reserved for Future Use
			4	5	6		.05	.34	Restoration of Buildings after D&D
1	2	3	4	5	6		.05	.16	Retaining Wall
			4	5			.28	.09	Retort/Amalgamation
			4	5			.26	.29	Reverse Osmosis
1	2						.04	.04	Risk Assessment Documentation
	2					8	.03	.10	Risk Assessment Plan
			4	5			.22	.07	Rotating Biological Contactors
1	2	3	4	5	6		.03	.03	Sampling and Analysis Plan
1	2	3	4	5	6		.05	.33	Sanitary Sewer Systems
	2						.04	.07	Screen Environmental Alternatives
			4	5	6		.17	.14	Sediment Capping
			4	5			.26	.31	Sedimentation
			4	5	6		.17	.08	Sediments Barriers
			4	5	6		.13	.14	Shallow Land Disposal
			4	5			.11	.02	Sheds & Other Supporting Facilities
			4	5			.18	.06	Sheet Piling
			4	5			.26	.32	Shredding
1	2	3	4	5	6		.05	.17	Sidewalks
			4	5			.26	.33	Sieving (Size Separation, Screening, Physical Separation)
			4	5			.14	.10	Sifting
			4	5	6		.13	.16	Silo Disposal
			4	5			.11	.03	Simple Treatment Facilities (e.g., Equipment Slabs, Foundation, Utilities)
	2	3					.10	.10	Simulation/Modeling
1	2	3	4	5	6		.07	.03	Site Contaminant Surveys/Radiation Monitoring
			4	5			.31	.05	Site Reconfiguration, Isolating and Securing Structure
1	2	3					.07	.01	Site Reconnaissance
1	2	3	4	5	6		.07	.16	Site-Specific Geographical Information System (GIS)
			4	5			.27	.02	Six-Phase Heating and Extraction
			4	5			.25	.10	Skimming
			4	5			.26	.34	Skimming
			4	5			.30	.06	Sludge Stabilization (Aggregate / Rock / Slag)
			4	5			.22	.08	Slurry Phase Biological Treatment
			4	5	6		.18	.04	Slurry Walls
			4	5			.23	.05	Soil Flushing (Surfactant / Solvent)
			4	5			.25	.11	Soil Flushing (Surfactant / Solvent)
			4	5			.25	.17	Soil Vapor Extraction
			4	5			.26	.18	Soil Vapor Extraction
			4	5			.26	.35	Soil Washing (Surfactant / Solvent)
1	2	3	4	5	6		.08	.04	Soil/Sediment Sample Analysis
1	2	3	4	5	6		.07	.11	Soil/Sediment Sampling
			4	5			.28	.10	Solar Detoxification/Evaporation
1	2	3	4	5	6		.08	.07	Solid Material/Waste Sample Analysis
			4	5			.25	.12	Solids Dewatering/Drying
			4	5			.26	.36	Solids Dewatering/Drying
			4	5			.24	.11	Solvent Extraction
1	2	3	4	5	6		.05	.63	Special Facilities Construction
1	2	3	4	5	6		.05	.61	Specialized Building Equipment
1	2	3	4	5	6		.05	.60	Specialties
			4	5			.26	.08	Spray Dryer
			4	5			.26	.37	Sprinkler Irrigation
1	2	3	4	5	6		.05	.18	Sprinkler System
	2	3					.10	.12	Status Review
1	2	3	4	5	6		.05	.24	Steam Distribution and Condensate Return Systems

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra.			
			4	5	6		.05	.39	Steam Plant Facility
			4	5			.28	.11	Steam Stripping/Flushing/Reforming
			4	5			.27	.04	Steam/Hot Water Injection Vacuum Extraction
			4				.12	.10	Storage Facility Commissioning Activities
			4	5	6		.12	.04	Storage Facility Front-End - High/Remote Hazard
			4	5	6		.12	.03	Storage Facility Front-End - Low/Moderate Hazard
			4	5	6		.17	.09	Storm Drainage (See X.05.28 for Storm Sewers)
1	2	3	4	5	6		.05	.28	Storm Sewer Systems
			4				.15	.03	Structure Removal
1	2	3	4	5	6		.05	.19	Structures/Culverts
		3	4				.04	.21	Submittals
			4	5	6		.18	.03	Subsurface Drainage/Collection/French Drain
			4	5			.26	.38	Supercritical Extraction
			4	5			.28	.12	Supercritical Water Oxidation
			4				.14	.07	Surface Sweep (Mag & Flag)
			4				.14	.06	Surface Sweep (Magnetometer)
			4				.14	.05	Surface Sweep (Visual)
1	2	3	4	5	6		.08	.03	Surface Water Sample Analysis
1	2	3	4	5	6		.07	.10	Surface Water Sampling
			4	5			.26	.39	Surfactant Enhanced Recovery
			4	5	6		.05	.42	Switch Gear Building
			4	5	6		.05	.41	Switch Gear Building for Important-To-Safety Systems
			4	5			.26	.40	Synthetic Resin Adsorption
			4	5	6		.34	.15	Synthetic Resin Adsorption
			4				.15	.02	Tank Removal
			4	5	6		.13	.08	Tanks
		3					.04	.20	Task Requirement and Criteria
1	2	3					.03	.11	Technical Project Goals and Objectives
	2	3					.10	.13	Technology Transfer
			4	5	6		.17	.05	Terraces and Benches
	2	3					.10	.08	Test Special Tools/Equipment
1	2	3	4	5	6		.05	.57	Thermal and Moisture Protection
			4	5			.27	.01	Thermal Blanket (with Vacuum Extraction)
			4	5			.34	.06	Thermal/Oxidation
			4	5			.28	.13	Thermally Enhanced Vapor Extraction
1	2	3	4	5	6		.03	.08	Transportation and Disposal Plan (Waste Management Plan)
1	2	3	4	5			.32	.14	Transportation by air
1	2	3	4	5			.32	.13	Transportation by barge
1	2	3	4	5			.32	.12	Transportation by rail
1	2	3	4	5			.32	.11	Transportation by truck
1	2	3	4	5			.32	.02	Transportation Device/Equipment
1	2	3	4	5	6		.05	.25	Treatment Plants/Lift Stations
			4	5			.11	.04	Treatment Train Facility (e.g., Rain Covers, Foundation, Utilities)
			4	5			.22	.09	Trickling Filter
			4	5			.34	.03	Turnable Hybrid Plasma Reactor
			4	5			.26	.44	Ultrafiltration/Microfiltration
			4	5			.24	.14	Ultraviolet (UV) Oxidation
			4	5			.24	.13	Ultraviolet (UV) Photolysis
			4	5			.34	.07	Ultraviolet Oxidation
1	2	3	4	5	6		.05	.32	Underground Electrical Distribution
			4	5	6		.13	.07	Underground Mine/Shaft
			4	5	6		.13	.06	Underground Vault
			4	5	6		.19	.03	Upper Vegetative (Topsoil) Layer
			4	5			.25	.14	Vacuum Blasting
		3	4				.04	.14	Value Engineering/Special Studies
			4	5			.30	.07	Vitrification/Molten Glass
			4	5			.34	.08	VOC Recovery and Recycle
			4	5			.19	.02	Waste Containment, Portable (Furnish/Fill)
1	2	3	4	5	6		.03	.21	Waste Site Work Permits
			4	5	6		.12	.09	Waste Storage Fees and Taxes

Alphabetical Listing of ECES at Level 3

Ph1	Ph2	Ph3	Ph4	Ph5	Ph6	Ph8	Lvl	Lvl	
Assess.	Studies	Design	Cap. Const.	O&M	SLMT	Prog. Mgmt/Infra			
<b>ENVIRONMENTAL COST ELEMENT STRUCTURE</b>									
1	2	3	4	5			.32	.01	Waste Stream Handling/Packaging
			4	5			.11	.12	Waste Treatment Fees and Taxes
1	2	3	4	5	6		.05	.26	Water Distribution
1	2	3	4	5	6		.05	.27	Water Storage Tanks
			4		6		.15	.06	Well Abandonment
1	2	3	4	5	6		.05	.56	Wood & Plastics
1	2	3	4	5	6		.03	.01	Workplan