

EnergySolutions Clive Facility Surety Summary

Section	Item	11e.(2)	LLRW	MW
11e.(2)				
1	FACILITY DECOMMISSIONING			
2	PLACEMENT OF MATERIAL	\$ 74,105.51		
3	LINER/PROTECTIVE LINER COVER	\$ 62,468.32		
100	RESTORATION OF GRADE	\$ 1,784,069.29		
101	SETTLEMENT MONITORING	\$ 442,948.96		
200	COVER CONSTRUCTION	\$ 4,300,775.83		
201	STOCKPILES OF CLOSURE ASSETS	\$ -		
203	GROUNDWATER RESTORATION & WELL PLUGGING	\$ 343,211.79		
	SUBTOTALS	\$ 7,007,579.70		
LLRW				
2	ADMINISTRATION BUILDING		\$ 1,544.92	
3	OPERATIONS BUILDING		\$ 145,669.42	
5	ROLLOVER AREA		\$ 466.02	
6	ROLLOVER ENCLOSURE		\$ 14,416.25	
7	CONTAINER STORAGE PAD AND EVAPORATION PONDS		\$ 445,680.88	
8	EQUIPMENT PAD NORTH OF 1997 EVAPORATION POND		\$ 33,748.13	
9	EAST TRUCK UNLOADING FACILITY		\$ 381,137.80	
10	LLRW MAINTENANCE BAY (Inside Restricted Area)		\$ 4,548.41	
11	LLRW MAINTENANCE SHOP		\$ 23,957.84	
12	RAIL WASH FACILITY ON TRACK NO. 2		\$ 9,050.55	
13	RAIL WASH FACILITY ON TRACK NO. 4		\$ 23,818.09	
16	INTERMODAL UNLOADING FACILITY		\$ 176,773.20	
17	CLEAN TRANSFER FACILITY		\$ 10,975.05	
18	CONTAINERIZED CLASS A TRAILER		\$ 3,754.79	
26	MOBILE BATCH PLANT		\$ 56,636.64	
27	WIRELESS TOWER SUPPORT SURFACE		\$ 1,870.56	
28	GUARD SHACKS (5)		\$ 4,528.60	
29	TRANSPORTATION CASKS		\$ 6,885.36	

Section	Item	11e.(2)	LLRW	MW
31	PLACEMENT OF STORED WASTE		\$ 3,237,535.90	
32	DECONTAMINATION ACCESS CONTROL BUILDING		\$ 29,334.90	
33	INTERMODAL CONTAINER WASH BUILDING		\$ 101,740.53	
34	SHREDDER FACILITY		\$ 548,528.42	
35	ROTARY DUMP FACILITY		\$ 521,775.55	
36	EAST SIDE DRAINAGE SYSTEM		\$ 51,863.50	
37	AIR MONITORING STATION SURFACE UPGRADES		\$ 451.07	
38	NEW LLRW OPERATIONS BUILDING		\$ 82,202.33	
39	SRS DU STORAGE BUILDING		\$ 75,604.05	
100	HAUL ROADS FROM THE CLASS A EMBANKMENT TO THE AREA AROUND THE LLRW MAINTENANCE SHOP AND BAY		\$ 232,264.55	
101	ROADS FROM ROLLOVER TO SOUTH SIDE OF THE 1997 EVAPORATION POND, AREA BETWEEN TRACKS 2 AND 3, AND AREA AROUND IUF		\$ 387,263.00	
102	ROADS SOUTH OF THE 1997 POND, SITE ACCESS ROADS ALONG THE SOUTH AND NORTH BORDERS OF SECTION 32, HAUL ROAD ALONG THE WEST SIDE OF THE 11E.(2) EMBANKMENT		\$ 203,109.46	
103	RAIL TRACK AND RAILROAD BEDS WITHIN THE RESTRICTED AREA		\$ 581,047.95	
105	HAUL ROADS (LARGE COMPONENT AND CWF) AROUND CLASS A AND CLASS A NORTH EMBANKMENTS		\$ 113,850.82	
106	CLOSURE PERIOD STORMWATER MANAGEMENT		\$ 27,289.67	
200	TEMPORARY STORAGE TANKS		\$ 9,935.56	
201	DISPOSAL OF EQUIPMENT		\$ 588,378.78	
202	ON SITE OPEN AREA		\$ 271,392.14	
203	HEALTH PHYSICS STAFF AND RAD SURVEY EQUIPMENT		\$ 1,227,515.45	
204	DISPOSAL VOLUMES AND LINER CONSTRUCTION		\$ 448,329.30	
205	SETTLEMENT MONITORING		\$ 4,410,130.80	
207	COVER CONSTRUCTION		\$ 15,590,472.17	
208	GENERAL CLOSURE OF SECTION		\$ 1,356,048.44	
209	GENERAL CLEANUP COST CATEGORIES (not in any previously-defined areas)		\$ 651,578.20	
210	STOCKPILES OF CLOSURE ASSETS		\$ (999,591.48)	
211	INITIAL MOBILIZATION FOR SECURITY, SURVEY, AND SETTLEMENT MONITORING		\$ 447,800.57	
215	POTENTIAL GROUNDWATER REMEDIATION SYSTEM (IF NEEDED)		\$ 343,211.79	
	SUBTOTALS		\$ 31,884,525.93	

Section	Item	11e.(2)	LLRW	MW
MW				
I	Treatment of Stored Waste			\$ 2,477,398.02
III	Storage Pads and MW Truck Unloading Facility			\$ 325,050.29
IV	Pump House and Water Tank			\$ 2,746.07
V	Mixed Waste Storage Building			\$ 98,896.19
VI	Mixed Waste Treatment Building			\$ 89,076.70
VII	Mixed Waste Operations Building			\$ 121,512.40
VIII	Rail Car Unloading Facility			\$ 3,863.17
IX	Railroads Inside Restricted Area			\$ 54,828.33
X	Roads Inside Restricted Area			\$ 103,754.50
XI	Reagent Delivery Silos			\$ 10,693.02
XII	Evaporation Pond and Mixed Waste Surface Impoundment			\$ 77,398.56
XIII	Evaporation Tanks			\$ 10,514.12
XIV	On Site Open Area			\$ 48,975.40
XV	Health Physics Staff and Radiation Survey Equipment			\$ 1,227,515.45
XVI	Cell Closure			\$ 4,564,856.95
XVII	General Closure of Section			\$ 194,399.94
XVIII	VTD Condensate Costs			\$ 251,227.86
XIV	POTENTIAL GROUNDWATER REMEDIATION SYSTEM (IF NEEDED)			\$ 343,211.79
	SUBTOTALS			\$ 10,005,918.76
Indirect Multipliers		11e.(2)	LLRW	MW
	Working Conditions (5.5%)	\$ 385,416.88	\$ 1,753,648.93	\$ 550,325.53
	Mobilization			
	Contingency (10%)	\$ 700,757.97	\$ 3,188,452.59	\$ 1,000,591.88
	Engineering and Redesign (2.25%)	\$ 157,670.54	\$ 717,401.83	\$ 225,133.17
	Profit and Overhead (15%)	\$ 1,051,136.96	\$ 4,782,678.89	\$ 1,500,887.81
	Management Fee and Legal Expense (4%)	\$ 280,303.19	\$ 1,275,381.04	\$ 400,236.75
	DEQ Oversight of Project (4%)	\$ 280,303.19	\$ 1,275,381.04	\$ 400,236.75
	SUBTOTALS	\$ 2,855,588.73	\$ 12,992,944.32	\$ 4,077,411.89

Section	Item	11e.(2)	LLRW	MW
Environmental Monitoring During Closure (Five Years)				
400	Post Operational Monitoring and Maintenance	NA	\$ 35,884.64	\$ 48,493.19
XXVI				
401	WATER SAMPLES - Radiological	NA	\$ 493,140.22	\$ 82,191.30
XXVII				
XXVIII	WATER SAMPLES - RCRA	NA	NA	\$ 112,501.66
403	AIRBORNE PARTICULATE MONITORING	NA	\$ 430,538.39	\$ 42,445.90
XXX				
403	GAMMA EXPOSURE MONITORING	NA	\$ 9,504.33	\$ 1,520.69
XXXIII				
407	RADON EXPOSURE MONITORING	NA	\$ 9,991.37	\$ 2,578.42
XXXIV				
SUBTOTALS			\$ 979,058.95	\$ 289,731.16
Post-Closure Monitoring				
11e.(2)				
400	LONG TERM SURVEILLANCE (10 CFR 40, Criterion 10: \$250,000 in 1978 dollars - CPI Calculator used)	\$ 1,006,848.00		
LLRW				
400	Post Operational Monitoring and Maintenance (Year 1-100)		\$ 7,176.93	
401	WATER SAMPLES - Radiological (Year 1-100)		\$ 98,628.04	
402	EMBANKMENT SURVEY (Year 1-5)		\$ 4,329.75	
403	AIRBORNE PARTICULATE MONITORING (Year 1)		\$ 86,107.68	
404	SOIL SAMPLING (Year 1)		\$ 28,785.47	
406	GAMMA EXPOSURE MONITORING (YEAR 1)		\$ 1,900.87	
407	RADON EXPOSURE MONITORING (Year 1)		\$ 1,998.27	
MW				
XXVI	Post Operational Monitoring and Maintenance (Year 1-100)			\$ 9,698.64
XXVII	Water Samples -- Radiological (Year 1-100)			\$ 16,438.26
XXVIII	Water Samples -- RCRA (Year 1-30)			\$ 22,500.33
XXIX	Embankment Survey (Year 1-5)			\$ 4,329.75
XXX	Airborne Particulate Monitoring (Year 1)			\$ 8,489.18
XXXI	Soil Sampling (Year 1)			\$ 3,848.45
XXXIII	Gamma Exposure Monitoring (Year 1)			\$ 304.14
XXXIV	Radon Exposure Monitoring (Year 1)			\$ 515.68

Section	Item	11e.(2)	LLRW	MW
	Year 1		\$ 228,927.01	\$ 66,124.43
	Year 2-5		\$ 110,134.72	\$ 52,966.98
	Year 6-30		\$ 105,804.97	\$ 48,637.23
	Year 31-100		\$ 105,804.97	\$ 26,136.90
PRESENT VALUE versus FUTURE VALUE				
1	Costs are in 2017 dollars, Year 2 -100 activities are converted into 2017 dollars using Future (F) to Present (P) factor.		\$ 228,927.01	\$ 66,124.43
2	Real Return = 1.0%		\$ 107,964.63	\$ 52,966.98
3			\$ 106,895.67	\$ 52,966.98
4	** The Mixed Waste Facility does not use PRESENT VALUE versus FUTURE VALUE		\$ 105,837.30	\$ 52,966.98
5	calculations in the first 30 years of post-closure. These calculations are		\$ 104,789.41	\$ 52,966.98
6	used for years 31-100 in the Mixed Waste Facility portion **		\$ 99,673.07	\$ 48,637.23
7			\$ 98,686.21	\$ 48,637.23
8			\$ 97,709.11	\$ 48,637.23
9			\$ 96,741.70	\$ 48,637.23
10			\$ 95,783.86	\$ 48,637.23
11			\$ 94,835.50	\$ 48,637.23
12			\$ 93,896.54	\$ 48,637.23
13			\$ 92,966.87	\$ 48,637.23
14			\$ 92,046.41	\$ 48,637.23
15			\$ 91,135.06	\$ 48,637.23
16			\$ 90,232.73	\$ 48,637.23
17			\$ 89,339.33	\$ 48,637.23
18			\$ 88,454.79	\$ 48,637.23
19			\$ 87,579.00	\$ 48,637.23
20			\$ 86,711.88	\$ 48,637.23
21			\$ 85,853.34	\$ 48,637.23
22			\$ 85,003.31	\$ 48,637.23
23			\$ 84,161.69	\$ 48,637.23
24			\$ 83,328.41	\$ 48,637.23
25			\$ 82,503.38	\$ 48,637.23
26			\$ 81,686.51	\$ 48,637.23
27			\$ 80,877.73	\$ 48,637.23
28			\$ 80,076.96	\$ 48,637.23
29			\$ 79,284.12	\$ 48,637.23
30			\$ 78,499.13	\$ 48,637.23
31			\$ 77,721.91	\$ 19,199.57
32			\$ 76,952.39	\$ 19,009.47
33			\$ 76,190.48	\$ 18,821.26
34			\$ 75,436.12	\$ 18,634.91

Section	Item	11e.(2)	LLRW	MW
	35	\$	74,689.23	\$ 18,450.41
	36	\$	73,949.73	\$ 18,267.73
	37	\$	73,217.56	\$ 18,086.86
	38	\$	72,492.63	\$ 17,907.79
	39	\$	71,774.88	\$ 17,730.48
	40	\$	71,064.24	\$ 17,554.93
	41	\$	70,360.63	\$ 17,381.12
	42	\$	69,663.99	\$ 17,209.03
	43	\$	68,974.25	\$ 17,038.64
	44	\$	68,291.34	\$ 16,869.94
	45	\$	67,615.19	\$ 16,702.91
	46	\$	66,945.73	\$ 16,537.54
	47	\$	66,282.90	\$ 16,373.80
	48	\$	65,626.63	\$ 16,211.68
	49	\$	64,976.86	\$ 16,051.17
	50	\$	64,333.53	\$ 15,892.25
	51	\$	63,696.56	\$ 15,734.90
	52	\$	63,065.90	\$ 15,579.11
	53	\$	62,441.49	\$ 15,424.86
	54	\$	61,823.26	\$ 15,272.14
	55	\$	61,211.15	\$ 15,120.93
	56	\$	60,605.10	\$ 14,971.22
	57	\$	60,005.04	\$ 14,822.99
	58	\$	59,410.94	\$ 14,676.23
	59	\$	58,822.71	\$ 14,530.92
	60	\$	58,240.31	\$ 14,387.05
	61	\$	57,663.67	\$ 14,244.60
	62	\$	57,092.74	\$ 14,103.56
	63	\$	56,527.47	\$ 13,963.93
	64	\$	55,967.79	\$ 13,825.67
	65	\$	55,413.65	\$ 13,688.78
	66	\$	54,865.00	\$ 13,553.25
	67	\$	54,321.78	\$ 13,419.06
	68	\$	53,783.94	\$ 13,286.20
	69	\$	53,251.43	\$ 13,154.65
	70	\$	52,724.19	\$ 13,024.41
	71	\$	52,202.17	\$ 12,895.45
	72	\$	51,685.31	\$ 12,767.77
	73	\$	51,173.58	\$ 12,641.36
	74	\$	50,666.91	\$ 12,516.20
	75	\$	50,165.26	\$ 12,392.28

Section	Item	11e.(2)	LLRW	MW
	76	\$	49,668.57	\$ 12,269.58
	77	\$	49,176.80	\$ 12,148.10
	78	\$	48,689.90	\$ 12,027.82
	79	\$	48,207.83	\$ 11,908.73
	80	\$	47,730.52	\$ 11,790.82
	81	\$	47,257.94	\$ 11,674.08
	82	\$	46,790.04	\$ 11,558.50
	83	\$	46,326.77	\$ 11,444.06
	84	\$	45,868.09	\$ 11,330.75
	85	\$	45,413.95	\$ 11,218.56
	86	\$	44,964.31	\$ 11,107.49
	87	\$	44,519.12	\$ 10,997.51
	88	\$	44,078.33	\$ 10,888.63
	89	\$	43,641.92	\$ 10,780.82
	90	\$	43,209.82	\$ 10,674.08
	91	\$	42,782.00	\$ 10,568.40
	92	\$	42,358.41	\$ 10,463.76
	93	\$	41,939.02	\$ 10,360.16
	94	\$	41,523.78	\$ 10,257.58
	95	\$	41,112.66	\$ 10,156.02
	96	\$	40,705.60	\$ 10,055.47
	97	\$	40,302.58	\$ 9,955.91
	98	\$	39,903.54	\$ 9,857.33
	99	\$	39,508.46	\$ 9,759.74
	100	\$	39,117.28	\$ 9,663.10
	POST-CLOSURE SUBTOTALS	\$ 1,006,848.00	\$ 6,809,665.50	\$ 2,466,769.11
	Grand Totals	11e.(2)	LLRW	MW
		\$ 10,870,016.43	\$ 52,666,194.70	\$ 16,839,830.93
	TOTAL SURETY VALUE	\$	80,376,042.06	

Section	Item	11e.(2)	LLRW	MW
Closure of Unrestricted Areas (from MOU)				
1	Administration Building	\$ 66,389.69		
2	LLRW Employee Parking Area	\$ 12,419.52		
3	Southwest Storage Pond (Section 6)	\$ 25,815.97		
4	Water Storage Ponds and Associated Equipment (Section 29)	\$ 3,949.30		
5	Shredder Substation	\$ 16,561.19		
6	Rail Outside of Section 32	\$ 383,929.72		
7	Excavated Land (borrow Pits) - Section 5 and 29	\$ 841,484.91		
8	Truck Release Survey Building	\$ 12,025.33		
9	Container Maintenance Shop	\$ 14,861.46		
10	Purchasing Warehouse/Maintenance Building	\$ 50,637.54		
11	GW Laboratory/DEQ Office Building	\$ 10,958.64		
12	Water Tower	\$ 5,176.00		
13	Radio Tower and Support Building Concrete Pad	\$ 2,960.93		
14	Rail Repair Foundation Section 29	\$ 9,642.08		
15	Cement Ramp Used for Off-Loading	\$ 3,088.79		
16	Smoking Hut	\$ 1,059.25		
17	Manhole ORA 013 and Surrounding Area	\$ 1,613.68		
18	Power and Manhole and Surrounding Area on Section 29	\$ 1,159.11		
19	Diesel Fueling Area and Tank	\$ 4,093.66		
20	Cement Foundation near Small Water Pond	\$ 1,108.13		
21	Underground Water Tank, Section 29	\$ 2,055.77		
22	Old Batch Plant Foundation	\$ 2,989.69		
23	Abandoning Wells not needed during Post-Closure	\$ 4,224.15		
24	Other Areas Requiring only Radiological Survey	\$ 6,907.27		
	SUBTOTAL	\$ 1,485,111.78		
304	Indirect Multiplier for Profit and Overhead (15%)	\$ 222,766.77		
	Total Value for Unrestricted Areas	\$ 1,707,878.55		