TABLE 3.3a
UNIT 1, DECON ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	59,511	2,746	2,492	15	9,083	73,847
2051	77,238	26,816	4,114	16,369	29,246	153,782
2052	70,712	36,879	2,650	38,114	15,251	163,606
2053	51,657	15,984	2,247	13,474	7,069	90,430
2054	44,039	7,586	2,086	3,565	3,781	61,058
2055	29,722	4,723	2,086	2,143	3,924	42,599
2056	8,269	430	2,092	10	4,150	14,952
2057	8,246	429	2,086	10	4,139	14,911
2058	9,905	3,345	1,493	1,787	4,447	20,978
2059	15,771	1,397	556	8	2,031	19,764
2060	4,189	357	90	2	320	4,958
2061	135	0	0	0	0	135
2062	21	0	0	0	0	21
2063-2113	0	0	0	0	0	0
2114	83	1,250	0	0	12,141	13,475
2115	725	611	10	4,036	3,797	9,179
Total	380,224	102,554	22,004	79,535	99,379	683,696

TABLE 3.3b
UNIT 1, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	0	0	0	0	1,090	1,090
2051	5,497	16,492	0	0	1,074	23,064
2052	5,497	16,492	0	0	860	22,849
2053	5,497	16,492	0	0	857	22,847
2054	5,497	16,492	0	0	857	22,847
2055	5,497	16,492	0	0	857	22,847
2056	0	0	0	0	860	860
2057	0	0	0	0	857	857
2058	675	0	0	0	532	1,207
2059	2,028	345	0	0	76	2,449
2060	2,292	345	0	0	719	3,356
2061	2,285	345	0	0	840	3,471
2062	2,285	345	0	0	1,081	3,711
2063	2,285	345	0	0	1,126	3,756
2064	2,290	345	0	0	1,129	3,765
2065	2,285	345	0	0	1,126	3,756
2066	2,285	345	0	0	1,126	3,756
2067	2,285	345	0	0	1,126	3,756
2068	2,290	345	0	0	1,129	3,765
2069	2,285	345	0	0	1,126	3,756
2070	2,285	345	0	0	1,126	3,756
2071	2,285	345	0	0	1,126	3,756
2072	2,290	345	0	0	1,129	3,765
2073	2,285	345	0	0	1,126	3,756
2074	2,285	345	0	0	1,126	3,756
2075	2,285	345	0	0	1,126	3,756
2076	2,290	345	0	0	1,129	3,765
2077	2,285	345	0	0	1,126	3,756
2078	2,285	345	0	0	1,126	3,756
2079	2,285	345	0	0	1,126	3,756

TABLE 3.3b (continued)
UNIT 1, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2080	2,290	345	0	0	1,129	3,765
2081	2,285	345	0	0	1,126	3,756
2082	2,285	345	0	0	1,126	3,756
2083	2,285	345	0	0	1,126	3,756
2084	2,290	345	0	0	1,129	3,765
2085	2,285	345	0	0	1,126	3,756
2086	2,285	345	0	0	1,126	3,756
2087	2,285	345	0	0	1,126	3,756
2088	2,290	345	0	0	1,129	3,765
2089	2,285	345	0	0	1,126	3,756
2090	2,285	345	0	0	1,126	3,756
2091	2,285	345	0	0	1,126	3,756
2092	2,290	345	0	0	1,129	3,765
2093	2,285	345	0	0	1,126	3,756
2094	2,285	345	0	0	1,126	3,756
2095	2,285	345	0	0	1,126	3,756
2096	2,290	345	0	0	1,129	3,765
2097	2,285	345	0	0	1,126	3,756
2098	2,285	345	0	0	1,126	3,756
2099	2,285	345	0	0	1,126	3,756
2100	2,285	345	0	0	1,126	3,756
2101	2,285	345	0	0	1,126	3,756
2102	2,285	345	0	0	1,126	3,756
2103	2,285	345	0	0	1,126	3,756
2104	2,290	345	0	0	1,129	3,765
2105	2,285	345	0	0	1,126	3,756
2106	2,285	345	0	0	1,126	3,756
2107	2,285	345	0	0	1,126	3,756
2108	2,290	345	0	0	1,129	3,765
2109	2,285	345	0	0	1,126	3,756

TABLE 3.3b (continued)
UNIT 1, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2110	2,285	345	0	0	1,126	3,756
2111	2,285	345	0	0	1,126	3,756
2112	2,290	345	0	0	1,129	3,765
2113	2,285	345	0	0	1,126	3,756
2114	2,144	173	0	0	1,094	3,410
2115	0	0	0	0	0	0
Total	155,778	101,609	0	0	69,138	326,525

TABLE 3.3c
UNIT 1, DECON ALTERNATIVE
SITE RESTORATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	702	0	0	0	0	702
2051	1,716	51	0	0	271	2,038
2052	1,389	129	0	0	683	2,202
2053	1,115	77	0	0	196	1,387
2054	1,005	56	0	0	0	1,061
2055	603	33	0	0	0	637
2056	0	0	0	0	0	0
2057	0	0	0	0	0	0
2058	0	0	0	0	0	0
2059	0	0	0	0	0	0
2060	9,543	6,515	234	0	275	16,566
2061	11,346	7,745	278	0	326	19,696
2062	1,803	1,231	44	0	52	3,130
2063-2114	0	0	0	0	0	0
2115	4,980	2,453	5	0	40	7,477
Total	34,202	18,290	561	0	1,843	54,896

TABLE 3.4
UNIT 2, DECON ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	54,245	2,797	2,538	15	4,935	64,530
2054	73,254	26,010	4,112	14,441	19,242	137,059
2055	79,627	53,908	2,643	31,840	10,495	178,512
2056	70,516	34,805	2,245	13,179	5,626	126,371
2057	67,577	29,749	2,086	6,115	3,774	109,302
2058	61,375	32,637	1,681	6,483	5,205	107,382
2059	37,599	6,843	784	2,865	8,539	56,630
2060	20,356	14,136	324	2	3,870	38,688
2061	17,889	16,188	278	0	2,783	37,139
2062	4,764	2,863	44	0	1,390	9,061
2063	2,285	345	0	0	1,126	3,756
2064	2,290	345	0	0	1,129	3,765
2065	2,285	345	0	0	1,126	3,756
2066	2,285	345	0	0	1,126	3,756
2067	2,285	345	0	0	1,126	3,756
2068	2,290	345	0	0	1,129	3,765
2069	2,285	345	0	0	1,126	3,756
2070	2,285	345	0	0	1,126	3,756
2071	2,285	345	0	0	1,126	3,756
2072	2,290	345	0	0	1,129	3,765
2073	2,285	345	0	0	1,126	3,756
2074	2,285	345	0	0	1,126	3,756
2075	2,285	345	0	0	1,126	3,756
2076	2,290	345	0	0	1,129	3,765
2077	2,285	345	0	0	1,126	3,756
2078	2,285	345	0	0	1,126	3,756
2079	2,285	345	0	0	1,126	3,756
2080	2,290	345	0	0	1,129	3,765
2081	2,285	345	0	0	1,126	3,756
2082	2,285	345	0	0	1,126	3,756

TABLE 3.4 (continued)
UNIT 2, DECON ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2083	2,285	345	0	0	1,126	3,756
2084	2,290	345	0	0	1,129	3,765
2085	2,285	345	0	0	1,126	3,756
2086	2,285	345	0	0	1,126	3,756
2087	2,285	345	0	0	1,126	3,756
2088	2,290	345	0	0	1,129	3,765
2089	2,285	345	0	0	1,126	3,756
2090	2,285	345	0	0	1,126	3,756
2091	2,285	345	0	0	1,126	3,756
2092	2,290	345	0	0	1,129	3,765
2093	2,285	345	0	0	1,126	3,756
2094	2,285	345	0	0	1,126	3,756
2095	2,285	345	0	0	1,126	3,756
2096	2,290	345	0	0	1,129	3,765
2097	2,285	345	0	0	1,126	3,756
2098	2,285	345	0	0	1,126	3,756
2099	2,285	345	0	0	1,126	3,756
2100	2,285	345	0	0	1,126	3,756
2101	2,285	345	0	0	1,126	3,756
2102	2,285	345	0	0	1,126	3,756
2103	2,285	345	0	0	1,126	3,756
2104	2,290	345	0	0	1,129	3,765
2105	2,285	345	0	0	1,126	3,756
2106	2,285	345	0	0	1,126	3,756
2107	2,285	345	0	0	1,126	3,756
2108	2,290	345	0	0	1,129	3,765
2109	2,285	345	0	0	1,126	3,756
2110	2,285	345	0	0	1,126	3,756
2111	2,285	345	0	0	1,126	3,756
2112	2,290	345	0	0	1,129	3,765

TABLE 3.4 (continued)
UNIT 2, DECON ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2113	2,285	345	0	0	1,126	3,756
2114	2,227	1,423	0	0	13,235	16,885
2115	5,705	3,063	15	4,036	3,838	16,657
Total	611,715	242,017	16,749	78,976	140,415	1,089,873

TABLE 3.4a
UNIT 2, DECON ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	53,939	2,797	2,538	15	3,825	63,114
2054	72,063	25,945	4,112	14,441	17,893	134,453
2055	72,443	37,258	2,643	31,840	8,956	153,140
2056	63,067	17,733	2,245	13,179	4,580	100,804
2057	59,305	10,327	2,086	6,115	2,917	80,750
2058	52,087	10,916	1,681	6,483	4,673	75,841
2059	35,219	6,498	784	2,865	8,463	53,829
2060	4,989	466	90	2	1,516	7,062
2061	58	0	0	0	0	58
2062	9	0	0	0	0	9
2063-2113	0	0	0	0	0	0
2114	83	1,250	0	0	12,141	13,475
2115	725	611	10	4,036	3,797	9,179
Total	413,987	113,801	16,188	78,976	68,762	691,713

TABLE 3.4b
UNIT 2, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	0	0	0	0	1,110	1,110
2054	0	0	0	0	1,068	1,068
2055	5,497	16,492	0	0	857	22,847
2056	5,643	16,928	0	0	860	23,430
2057	6,428	19,284	0	0	857	26,569
2058	8,198	21,640	0	0	532	30,370
2059	2,366	345	0	0	76	2,787
2060	2,292	345	0	0	719	3,356
2061	2,285	345	0	0	840	3,471
2062	2,285	345	0	0	1,081	3,711
2063	2,285	345	0	0	1,126	3,756
2064	2,290	345	0	0	1,129	3,765
2065	2,285	345	0	0	1,126	3,756
2066	2,285	345	0	0	1,126	3,756
2067	2,285	345	0	0	1,126	3,756
2068	2,290	345	0	0	1,129	3,765
2069	2,285	345	0	0	1,126	3,756
2070	2,285	345	0	0	1,126	3,756
2071	2,285	345	0	0	1,126	3,756
2072	2,290	345	0	0	1,129	3,765
2073	2,285	345	0	0	1,126	3,756
2074	2,285	345	0	0	1,126	3,756
2075	2,285	345	0	0	1,126	3,756
2076	2,290	345	0	0	1,129	3,765
2077	2,285	345	0	0	1,126	3,756
2078	2,285	345	0	0	1,126	3,756
2079	2,285	345	0	0	1,126	3,756
2080	2,290	345	0	0	1,129	3,765
2081	2,285	345	0	0	1,126	3,756
2082	2,285	345	0	0	1,126	3,756

TABLE 3.4b (continued)
UNIT 2, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2083	2,285	345	0	0	1,126	3,756
2084	2,290	345	0	0	1,129	3,765
2085	2,285	345	0	0	1,126	3,756
2086	2,285	345	0	0	1,126	3,756
2087	2,285	345	0	0	1,126	3,756
2088	2,290	345	0	0	1,129	3,765
2089	2,285	345	0	0	1,126	3,756
2090	2,285	345	0	0	1,126	3,756
2091	2,285	345	0	0	1,126	3,756
2092	2,290	345	0	0	1,129	3,765
2093	2,285	345	0	0	1,126	3,756
2094	2,285	345	0	0	1,126	3,756
2095	2,285	345	0	0	1,126	3,756
2096	2,290	345	0	0	1,129	3,765
2097	2,285	345	0	0	1,126	3,756
2098	2,285	345	0	0	1,126	3,756
2099	2,285	345	0	0	1,126	3,756
2100	2,285	345	0	0	1,126	3,756
2101	2,285	345	0	0	1,126	3,756
2102	2,285	345	0	0	1,126	3,756
2103	2,285	345	0	0	1,126	3,756
2104	2,290	345	0	0	1,129	3,765
2105	2,285	345	0	0	1,126	3,756
2106	2,285	345	0	0	1,126	3,756
2107	2,285	345	0	0	1,126	3,756
2108	2,290	345	0	0	1,129	3,765
2109	2,285	345	0	0	1,126	3,756
2110	2,285	345	0	0	1,126	3,756
2111	2,285	345	0	0	1,126	3,756
2112	2,290	345	0	0	1,129	3,765

TABLE 3.4b (continued)
UNIT 2, DECON ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2113	2,285	345	0	0	1,126	3,756
2114	2,144	173	0	0	1,094	3,410
2115	0	0	0	0	0	0
Total	153,720	93,492	0	0	66,578	313,790

TABLE 3.4c
UNIT 2, DECON ALTERNATIVE
SITE RESTORATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	306	0	0	0	0	306
2054	1,191	65	0	0	282	1,538
2055	1,686	157	0	0	681	2,525
2056	1,806	144	0	0	187	2,136
2057	1,844	138	0	0	0	1,982
2058	1,090	81	0	0	0	1,171
2059	13	0	0	0	0	14
2060	13,076	13,325	234	0	1,634	28,269
2061	15,546	15,843	278	0	1,943	33,610
2062	2,470	2,518	44	0	309	5,341
2063-2114	0	0	0	0	0	0
2115	4,980	2,453	5	0	40	7,477
Total	44,009	34,724	561	0	5,076	84,370

TABLE 3.5
UNIT 1, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	47,455	2,113	2,492	15	9,894	61,970
2051	41,045	23,071	1,898	413	26,050	92,477
2052	15,240	17,138	558	5	5,168	38,109
2053	15,213	17,136	556	5	5,154	38,065
2054	15,213	17,136	556	5	5,154	38,065
2055	15,213	17,136	556	5	5,154	38,065
2056	9,742	645	558	5	5,168	16,119
2057	9,716	644	556	5	5,154	16,075
2058	7,441	555	441	4	3,670	12,110
2059	4,368	775	278	3	1,589	7,013
2060	4,380	776	279	3	1,594	7,031
2061	4,368	775	278	3	1,589	7,013
2062	4,368	775	278	3	1,589	7,013
2063	4,368	775	278	3	1,589	7,013
2064	4,380	776	279	3	1,594	7,031
2065	4,368	775	278	3	1,589	7,013
2066	4,368	775	278	3	1,589	7,013
2067	4,368	775	278	3	1,589	7,013
2068	4,380	776	279	3	1,594	7,031
2069	4,368	775	278	3	1,589	7,013
2070	4,368	775	278	3	1,589	7,013
2071	4,368	775	278	3	1,589	7,013
2072	4,380	776	279	3	1,594	7,031
2073	4,368	775	278	3	1,589	7,013
2074	4,368	775	278	3	1,589	7,013
2075	4,368	775	278	3	1,589	7,013
2076	4,380	776	279	3	1,594	7,031
2077	4,368	775	278	3	1,589	7,013
2078	4,368	775	278	3	1,589	7,013
2079	4,368	775	278	3	1,589	7,013

TABLE 3.5 (continued)
UNIT 1, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2080	4,380	776	279	3	1,594	7,031
2081	4,368	775	278	3	1,589	7,013
2082	4,368	775	278	3	1,589	7,013
2083	4,368	775	278	3	1,589	7,013
2084	4,380	776	279	3	1,594	7,031
2085	4,368	775	278	3	1,589	7,013
2086	4,368	775	278	3	1,589	7,013
2087	4,368	775	278	3	1,589	7,013
2088	4,380	776	279	3	1,594	7,031
2089	4,368	775	278	3	1,589	7,013
2090	4,368	775	278	3	1,589	7,013
2091	4,368	775	278	3	1,589	7,013
2092	4,380	776	279	3	1,594	7,031
2093	4,368	775	278	3	1,589	7,013
2094	4,368	775	278	3	1,589	7,013
2095	4,368	775	278	3	1,589	7,013
2096	4,380	776	279	3	1,594	7,031
2097	4,368	775	278	3	1,589	7,013
2098	4,368	775	278	3	1,589	7,013
2099	4,368	775	278	3	1,589	7,013
2100	4,368	775	278	3	1,589	7,013
2101	4,368	775	278	3	1,589	7,013
2102	4,368	775	278	3	1,589	7,013
2103	40,059	4,711	2,130	11	1,689	48,600
2104	56,788	15,727	2,755	11,038	3,764	90,072
2105	61,372	38,756	2,643	44,228	9,853	156,852
2106	40,200	13,576	2,170	10,405	4,369	70,721
2107	36,444	9,109	2,086	4,404	3,396	55,439
2108	12,707	2,906	977	1,209	2,053	19,851
2109	19,166	1,857	556	9	1,874	23,462

TABLE 3.5 (continued)
UNIT 1, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2110	15,196	7,514	307	1	1,260	24,278
2111	13,766	8,090	278	0	1,167	23,302
2112	3,486	1,151	29	0	1,134	5,800
2113	2,285	345	0	0	1,126	3,756
2114	2,227	1,422	0	0	13,235	16,885
2115	5,705	3,063	15	4,036	3,838	16,657
Total	677,998	237,910	34,367	75,930	189,295	1,215,500

TABLE 3.5a
UNIT 1, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	47,455	2,113	2,492	15	8,804	60,880
2051	34,760	6,578	1,898	413	24,911	68,560
2052	7,754	645	558	5	4,144	13,106
2053	7,732	644	556	5	4,132	13,070
2054	7,732	644	556	5	4,132	13,070
2055	7,732	644	556	5	4,132	13,070
2056	7,754	645	558	5	4,144	13,106
2057	7,732	644	556	5	4,132	13,070
2058	5,378	555	441	4	3,041	9,419
2059	2,079	430	278	3	1,513	4,303
2060	2,085	431	279	3	1,517	4,315
2061	2,079	430	278	3	1,513	4,303
2062	2,079	430	278	3	1,513	4,303
2063	2,079	430	278	3	1,513	4,303
2064	2,085	431	279	3	1,517	4,315
2065	2,079	430	278	3	1,513	4,303
2066	2,079	430	278	3	1,513	4,303
2067	2,079	430	278	3	1,513	4,303
2068	2,085	431	279	3	1,517	4,315
2069	2,079	430	278	3	1,513	4,303
2070	2,079	430	278	3	1,513	4,303
2071	2,079	430	278	3	1,513	4,303
2072	2,085	431	279	3	1,517	4,315
2073	2,079	430	278	3	1,513	4,303
2074	2,079	430	278	3	1,513	4,303
2075	2,079	430	278	3	1,513	4,303
2076	2,085	431	279	3	1,517	4,315
2077	2,079	430	278	3	1,513	4,303
2078	2,079	430	278	3	1,513	4,303
2079	2,079	430	278	3	1,513	4,303

TABLE 3.5a (continued)
UNIT 1, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2080	2,085	431	279	3	1,517	4,315
2081	2,079	430	278	3	1,513	4,303
2082	2,079	430	278	3	1,513	4,303
2083	2,079	430	278	3	1,513	4,303
2084	2,085	431	279	3	1,517	4,315
2085	2,079	430	278	3	1,513	4,303
2086	2,079	430	278	3	1,513	4,303
2087	2,079	430	278	3	1,513	4,303
2088	2,085	431	279	3	1,517	4,315
2089	2,079	430	278	3	1,513	4,303
2090	2,079	430	278	3	1,513	4,303
2091	2,079	430	278	3	1,513	4,303
2092	2,085	431	279	3	1,517	4,315
2093	2,079	430	278	3	1,513	4,303
2094	2,079	430	278	3	1,513	4,303
2095	2,079	430	278	3	1,513	4,303
2096	2,085	431	279	3	1,517	4,315
2097	2,079	430	278	3	1,513	4,303
2098	2,079	430	278	3	1,513	4,303
2099	2,079	430	278	3	1,513	4,303
2100	2,079	430	278	3	1,513	4,303
2101	2,079	430	278	3	1,513	4,303
2102	2,079	430	278	3	1,513	4,303
2103	37,078	4,366	2,130	11	1,612	45,197
2104	52,694	15,344	2,755	11,038	3,688	85,519
2105	57,409	38,259	2,643	44,228	9,776	152,315
2106	36,851	13,157	2,170	10,405	4,293	66,876
2107	33,204	8,703	2,086	4,404	3,320	51,717
2108	10,614	2,544	977	1,209	1,977	17,320
2109	17,101	1,512	556	9	1,797	20,975

TABLE 3.5a (continued)
UNIT 1, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2110	2,746	230	58	1	206	3,241
2111	135	0	0	0	0	135
2112	14	0	0	0	0	14
2113	0	0	0	0	0	0
2114	83	1,250	0	0	12,141	13,475
2115	725	611	10	4,036	3,797	9,179
Total	474,232	118,016	33,806	75,930	170,785	872,769

TABLE 3.5b
UNIT 1, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	0	0	0	0	1,090	1,090
2051	6,285	16,492	0	0	1,074	23,852
2052	7,486	16,492	0	0	860	24,838
2053	7,481	16,492	0	0	857	24,830
2054	7,481	16,492	0	0	857	24,830
2055	7,481	16,492	0	0	857	24,830
2056	1,989	0	0	0	860	2,848
2057	1,983	0	0	0	857	2,840
2058	2,063	0	0	0	532	2,595
2059	2,289	345	0	0	76	2,710
2060	2,295	345	0	0	77	2,716
2061	2,289	345	0	0	76	2,710
2062	2,289	345	0	0	76	2,710
2063	2,289	345	0	0	76	2,710
2064	2,295	345	0	0	77	2,716
2065	2,289	345	0	0	76	2,710
2066	2,289	345	0	0	76	2,710
2067	2,289	345	0	0	76	2,710
2068	2,295	345	0	0	77	2,716
2069	2,289	345	0	0	76	2,710
2070	2,289	345	0	0	76	2,710
2071	2,289	345	0	0	76	2,710
2072	2,295	345	0	0	77	2,716
2073	2,289	345	0	0	76	2,710
2074	2,289	345	0	0	76	2,710
2075	2,289	345	0	0	76	2,710
2076	2,295	345	0	0	77	2,716
2077	2,289	345	0	0	76	2,710
2078	2,289	345	0	0	76	2,710
2079	2,289	345	0	0	76	2,710

TABLE 3.5b (continued)
UNIT 1, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2080	2,295	345	0	0	77	2,716
2081	2,289	345	0	0	76	2,710
2082	2,289	345	0	0	76	2,710
2083	2,289	345	0	0	76	2,710
2084	2,295	345	0	0	77	2,716
2085	2,289	345	0	0	76	2,710
2086	2,289	345	0	0	76	2,710
2087	2,289	345	0	0	76	2,710
2088	2,295	345	0	0	77	2,716
2089	2,289	345	0	0	76	2,710
2090	2,289	345	0	0	76	2,710
2091	2,289	345	0	0	76	2,710
2092	2,295	345	0	0	77	2,716
2093	2,289	345	0	0	76	2,710
2094	2,289	345	0	0	76	2,710
2095	2,289	345	0	0	76	2,710
2096	2,295	345	0	0	77	2,716
2097	2,289	345	0	0	76	2,710
2098	2,289	345	0	0	76	2,710
2099	2,289	345	0	0	76	2,710
2100	2,289	345	0	0	76	2,710
2101	2,289	345	0	0	76	2,710
2102	2,289	345	0	0	76	2,710
2103	2,370	345	0	0	76	2,791
2104	2,379	345	0	0	77	2,800
2105	2,293	345	0	0	76	2,715
2106	2,168	345	0	0	76	2,589
2107	2,145	345	0	0	76	2,567
2108	1,793	345	0	0	77	2,214
2109	2,065	345	0	0	76	2,487

TABLE 3.5b (continued)
UNIT 1, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2110	2,286	345	0	0	318	2,948
2111	2,285	345	0	0	346	2,976
2112	2,291	345	0	0	1,048	3,684
2113	2,285	345	0	0	1,126	3,756
2114	2,144	172	0	0	1,094	3,410
2115	0	0	0	0	0	0
Total	169,522	101,609	0	0	15,677	286,808

TABLE 3.5c
UNIT 1, SAFSTOR ALTERNATIVE
SITE RESTORATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2050	0	0	0	0	0	0
2051	0	0	0	0	65	65
2052	0	0	0	0	165	165
2053	0	0	0	0	165	165
2054	0	0	0	0	165	165
2055	0	0	0	0	165	165
2056	0	0	0	0	165	165
2057	0	0	0	0	165	165
2058	0	0	0	0	96	96
2059-2102	0	0	0	0	0	0
2103	611	0	0	0	0	611
2104	1,715	38	0	0	0	1,753
2105	1,670	152	0	0	0	1,823
2106	1,181	74	0	0	0	1,256
2107	1,095	61	0	0	0	1,155
2108	300	17	0	0	0	317
2109	0	0	0	0	0	0
2110	10,164	6,939	249	0	736	18,088
2111	11,346	7,745	278	0	821	20,191
2112	1,181	806	29	0	86	2,102
2113	0	0	0	0	0	0
2114	0	0	0	0	0	0
2115	4,980	2,453	5	0	40	7,477
Total	34,244	18,285	561	0	2,833	55,923

TABLE 3.6
UNIT 2, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	45,079	2,152	2,538	15	4,793	54,577
2054	36,796	8,446	1,861	440	17,259	64,802
2055	17,478	17,249	556	6	5,440	40,730
2056	17,656	17,687	558	6	5,455	41,362
2057	18,409	20,041	556	6	5,440	44,452
2058	16,085	22,300	441	5	3,851	42,681
2059	4,629	870	278	3	1,625	7,405
2060	4,642	871	279	3	1,629	7,424
2061	4,629	870	278	3	1,625	7,405
2062	4,629	870	278	3	1,625	7,405
2063	4,629	870	278	3	1,625	7,405
2064	4,642	871	279	3	1,629	7,424
2065	4,629	870	278	3	1,625	7,405
2066	4,629	870	278	3	1,625	7,405
2067	4,629	870	278	3	1,625	7,405
2068	4,642	871	279	3	1,629	7,424
2069	4,629	870	278	3	1,625	7,405
2070	4,629	870	278	3	1,625	7,405
2071	4,629	870	278	3	1,625	7,405
2072	4,642	871	279	3	1,629	7,424
2073	4,629	870	278	3	1,625	7,405
2074	4,629	870	278	3	1,625	7,405
2075	4,629	870	278	3	1,625	7,405
2076	4,642	871	279	3	1,629	7,424
2077	4,629	870	278	3	1,625	7,405
2078	4,629	870	278	3	1,625	7,405
2079	4,629	870	278	3	1,625	7,405
2080	4,642	871	279	3	1,629	7,424
2081	4,629	870	278	3	1,625	7,405
2082	4,629	870	278	3	1,625	7,405

TABLE 3.6 (continued)
UNIT 2, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2083	4,629	870	278	3	1,625	7,405
2084	4,642	871	279	3	1,629	7,424
2085	4,629	870	278	3	1,625	7,405
2086	4,629	870	278	3	1,625	7,405
2087	4,629	870	278	3	1,625	7,405
2088	4,642	871	279	3	1,629	7,424
2089	4,629	870	278	3	1,625	7,405
2090	4,629	870	278	3	1,625	7,405
2091	4,629	870	278	3	1,625	7,405
2092	4,642	871	279	3	1,629	7,424
2093	4,629	870	278	3	1,625	7,405
2094	4,629	870	278	3	1,625	7,405
2095	4,629	870	278	3	1,625	7,405
2096	4,642	871	279	3	1,629	7,424
2097	4,629	870	278	3	1,625	7,405
2098	4,629	870	278	3	1,625	7,405
2099	4,629	870	278	3	1,625	7,405
2100	4,629	870	278	3	1,625	7,405
2101	4,629	870	278	3	1,625	7,405
2102	4,629	870	278	3	1,625	7,405
2103	4,629	870	278	3	1,625	7,405
2104	32,549	4,028	2,508	12	1,611	40,709
2105	48,537	20,425	2,727	14,570	3,821	90,079
2106	62,888	39,027	2,643	36,654	7,159	148,372
2107	55,095	13,735	2,089	9,252	3,762	83,934
2108	51,825	12,506	1,900	8,073	3,430	77,734
2109	34,630	4,860	752	1,327	1,876	43,444
2110	19,447	14,838	307	1	2,676	37,270
2111	17,889	16,188	278	0	2,784	37,139
2112	3,915	1,994	29	0	1,302	7,240

TABLE 3.6 (continued)
UNIT 2, SAFSTOR ALTERNATIVE
TOTAL ANNUAL EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2113	2,285	345	0	0	1,126	3,756
2114	2,227	1,422	0	0	13,235	16,885
2115	5,705	3,063	15	4,036	3,838	16,657
Total	696,944	259,457	32,285	74,530	162,013	1,225,229

TABLE 3.6a
UNIT 2, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	45,079	2,152	2,538	15	3,683	53,466
2054	35,821	8,446	1,861	440	16,072	62,641
2055	9,625	756	556	6	4,296	15,240
2056	9,652	759	558	6	4,307	15,281
2057	9,625	756	556	6	4,296	15,240
2058	6,595	660	441	5	3,151	10,852
2059	2,349	525	278	3	1,548	4,703
2060	2,356	526	279	3	1,552	4,716
2061	2,349	525	278	3	1,548	4,703
2062	2,349	525	278	3	1,548	4,703
2063	2,349	525	278	3	1,548	4,703
2064	2,356	526	279	3	1,552	4,716
2065	2,349	525	278	3	1,548	4,703
2066	2,349	525	278	3	1,548	4,703
2067	2,349	525	278	3	1,548	4,703
2068	2,356	526	279	3	1,552	4,716
2069	2,349	525	278	3	1,548	4,703
2070	2,349	525	278	3	1,548	4,703
2071	2,349	525	278	3	1,548	4,703
2072	2,356	526	279	3	1,552	4,716
2073	2,349	525	278	3	1,548	4,703
2074	2,349	525	278	3	1,548	4,703
2075	2,349	525	278	3	1,548	4,703
2076	2,356	526	279	3	1,552	4,716
2077	2,349	525	278	3	1,548	4,703
2078	2,349	525	278	3	1,548	4,703
2079	2,349	525	278	3	1,548	4,703
2080	2,356	526	279	3	1,552	4,716
2081	2,349	525	278	3	1,548	4,703
2082	2,349	525	278	3	1,548	4,703

TABLE 3.6a (continued)
UNIT 2, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2083	2,349	525	278	3	1,548	4,703
2084	2,356	526	279	3	1,552	4,716
2085	2,349	525	278	3	1,548	4,703
2086	2,349	525	278	3	1,548	4,703
2087	2,349	525	278	3	1,548	4,703
2088	2,356	526	279	3	1,552	4,716
2089	2,349	525	278	3	1,548	4,703
2090	2,349	525	278	3	1,548	4,703
2091	2,349	525	278	3	1,548	4,703
2092	2,356	526	279	3	1,552	4,716
2093	2,349	525	278	3	1,548	4,703
2094	2,349	525	278	3	1,548	4,703
2095	2,349	525	278	3	1,548	4,703
2096	2,356	526	279	3	1,552	4,716
2097	2,349	525	278	3	1,548	4,703
2098	2,349	525	278	3	1,548	4,703
2099	2,349	525	278	3	1,548	4,703
2100	2,349	525	278	3	1,548	4,703
2101	2,349	525	278	3	1,548	4,703
2102	2,349	525	278	3	1,548	4,703
2103	2,349	525	278	3	1,548	4,703
2104	30,033	3,683	2,508	12	1,534	37,771
2105	45,005	20,006	2,727	14,570	3,745	86,052
2106	58,578	38,497	2,643	36,654	7,083	143,455
2107	50,304	13,213	2,089	9,252	3,685	78,543
2108	47,476	12,018	1,900	8,073	3,354	72,820
2109	32,278	4,515	752	1,327	1,799	40,670
2110	3,234	300	58	1	174	3,767
2111	58	0	0	0	0	58
2112	6	0	0	0	0	6

TABLE 3.6a (continued)
UNIT 2, SAFSTOR ALTERNATIVE
LICENSE TERMINATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2113	0	0	0	0	0	0
2114	83	1,250	0	0	12,141	13,475
2115	725	611	10	4,036	3,797	9,179
Total	489,956	131,247	31,724	74,530	142,830	870,287

TABLE 3.6b
UNIT 2, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	0	0	0	0	1,110	1,110
2054	975	0	0	0	1,068	2,043
2055	7,853	16,492	0	0	857	25,203
2056	8,005	16,928	0	0	860	25,792
2057	8,784	19,284	0	0	857	28,925
2058	9,490	21,640	0	0	532	31,662
2059	2,280	345	0	0	76	2,702
2060	2,286	345	0	0	77	2,708
2061	2,280	345	0	0	76	2,702
2062	2,280	345	0	0	76	2,702
2063	2,280	345	0	0	76	2,702
2064	2,286	345	0	0	77	2,708
2065	2,280	345	0	0	76	2,702
2066	2,280	345	0	0	76	2,702
2067	2,280	345	0	0	76	2,702
2068	2,286	345	0	0	77	2,708
2069	2,280	345	0	0	76	2,702
2070	2,280	345	0	0	76	2,702
2071	2,280	345	0	0	76	2,702
2072	2,286	345	0	0	77	2,708
2073	2,280	345	0	0	76	2,702
2074	2,280	345	0	0	76	2,702
2075	2,280	345	0	0	76	2,702
2076	2,286	345	0	0	77	2,708
2077	2,280	345	0	0	76	2,702
2078	2,280	345	0	0	76	2,702
2079	2,280	345	0	0	76	2,702
2080	2,286	345	0	0	77	2,708
2081	2,280	345	0	0	76	2,702
2082	2,280	345	0	0	76	2,702

TABLE 3.6b (continued)
UNIT 2, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2083	2,280	345	0	0	76	2,702
2084	2,286	345	0	0	77	2,708
2085	2,280	345	0	0	76	2,702
2086	2,280	345	0	0	76	2,702
2087	2,280	345	0	0	76	2,702
2088	2,286	345	0	0	77	2,708
2089	2,280	345	0	0	76	2,702
2090	2,280	345	0	0	76	2,702
2091	2,280	345	0	0	76	2,702
2092	2,286	345	0	0	77	2,708
2093	2,280	345	0	0	76	2,702
2094	2,280	345	0	0	76	2,702
2095	2,280	345	0	0	76	2,702
2096	2,286	345	0	0	77	2,708
2097	2,280	345	0	0	76	2,702
2098	2,280	345	0	0	76	2,702
2099	2,280	345	0	0	76	2,702
2100	2,280	345	0	0	76	2,702
2101	2,280	345	0	0	76	2,702
2102	2,280	345	0	0	76	2,702
2103	2,280	345	0	0	76	2,702
2104	2,201	345	0	0	77	2,623
2105	2,223	345	0	0	76	2,645
2106	2,281	345	0	0	76	2,702
2107	2,410	345	0	0	76	2,831
2108	2,428	345	0	0	77	2,850
2109	2,352	345	0	0	76	2,773
2110	2,286	345	0	0	318	2,948
2111	2,285	345	0	0	346	2,976
2112	2,291	345	0	0	1,048	3,684

TABLE 3.6b (continued)
UNIT 2, SAFSTOR ALTERNATIVE
SPENT FUEL MANAGEMENT EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2113	2,285	345	0	0	1,126	3,756
2114	2,144	172	0	0	1,094	3,410
2115	0	0	0	0	0	0
Total	162,960	93,492	0	0	13,117	269,570

TABLE 3.6c
UNIT 2, SAFSTOR ALTERNATIVE
SITE RESTORATION EXPENDITURES
(Thousands of 2024 Dollars)

Year	Labor	Equipment & Materials	Energy	Burial	Other	Total
2053	0	0	0	0	0	0
2054	0	0	0	0	119	119
2055	0	0	0	0	288	288
2056	0	0	0	0	288	288
2057	0	0	0	0	288	288
2058	0	0	0	0	168	168
2059-2103	0	0	0	0	0	0
2104	315	0	0	0	0	315
2105	1,309	74	0	0	0	1,382
2106	2,029	185	0	0	0	2,214
2107	2,382	178	0	0	0	2,560
2108	1,920	143	0	0	0	2,064
2109	0	0	0	0	0	0
2110	13,927	14,194	249	0	2,184	30,554
2111	15,546	15,843	278	0	2,438	34,105
2112	1,618	1,649	29	0	254	3,551
2113	0	0	0	0	0	0
2114	0	0	0	0	0	0
2115	4,980	2,453	5	0	40	7,477
Total	44,027	34,718	561	0	6,066	85,372

FIGURE 3.1
DECOMMISSIONING PERSONNEL LEVELS
DECON

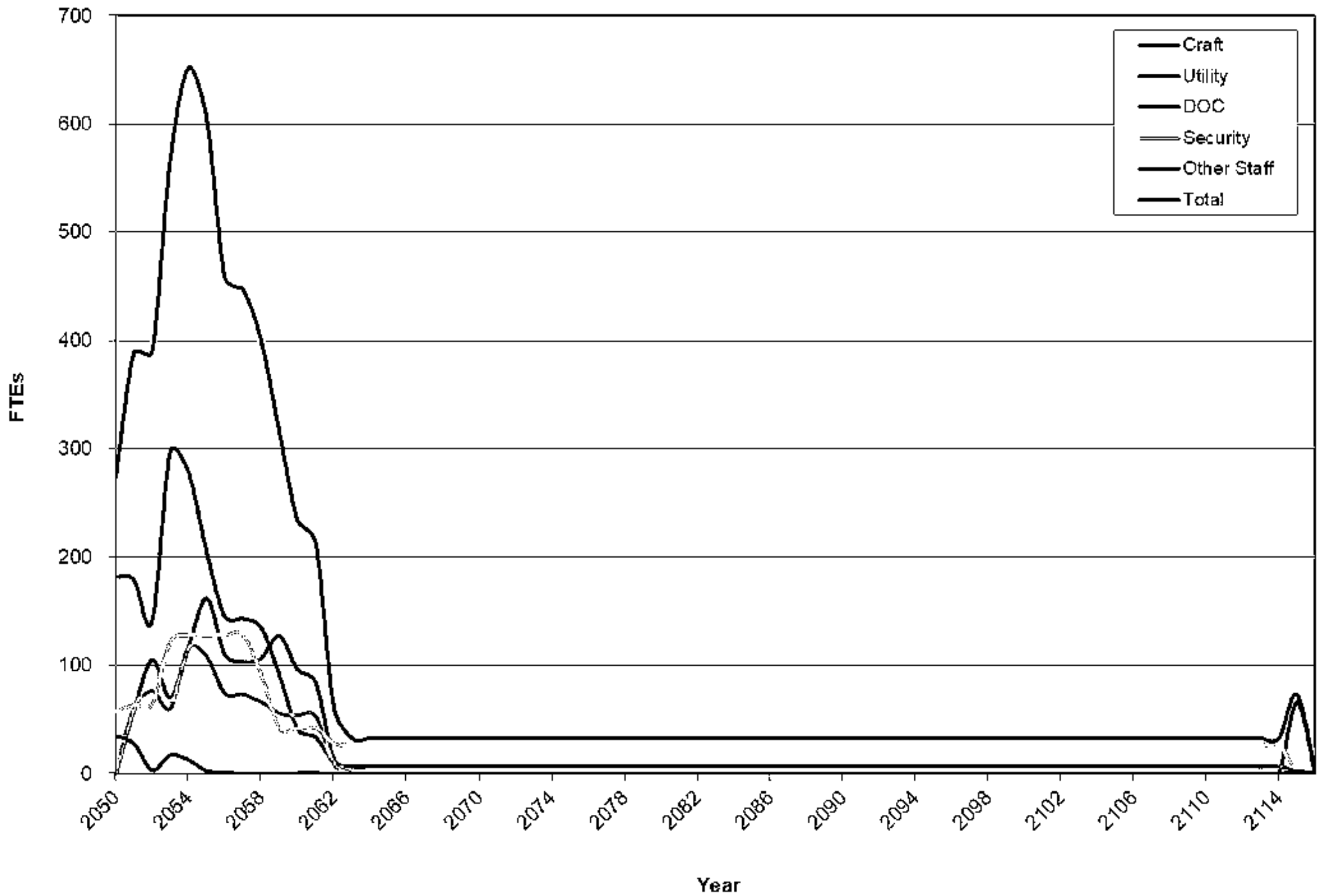
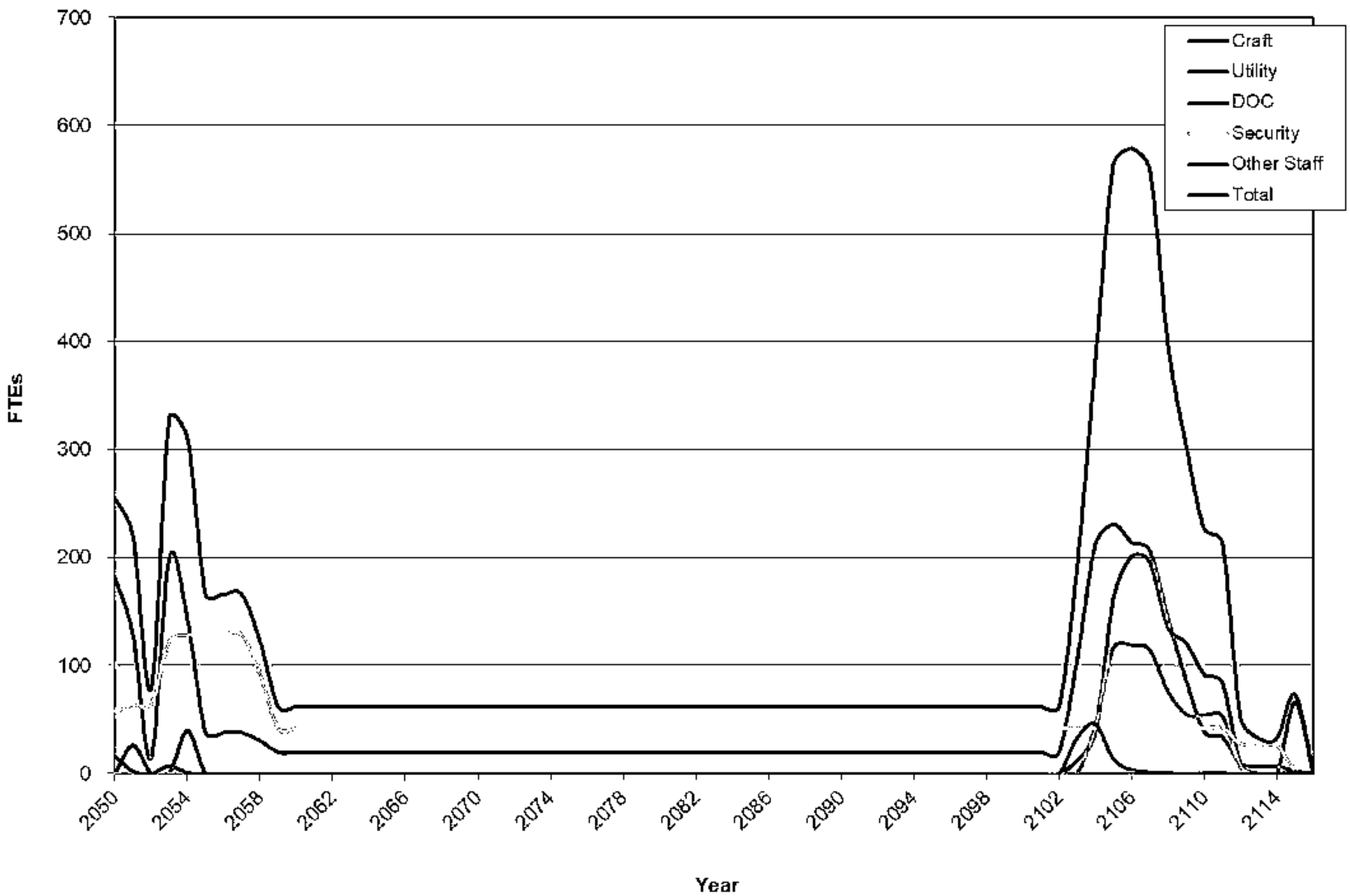


FIGURE 3.2
DECOMMISSIONING PERSONNEL LEVELS
SAFSTOR



4. SCHEDULE ESTIMATE

The schedules for the decommissioning scenarios considered in this study follow the sequence presented in the AIF/NESP-036 study, with minor changes to reflect recent experience and site-specific constraints. In addition, the scheduling reflects the spent fuel management plan described in Section 3.4.1.

A schedule or sequence of activities for the DECON alternative is presented in Figure 4.1. The key activities listed in the schedule do not reflect a one-to-one correspondence with those activities in the Appendix C cost table, but reflect dividing some activities for clarity and combining others for convenience. The schedule was prepared using the "Microsoft Office Project Professional" computer software.[30]

4.1 SCHEDULE ESTIMATE ASSUMPTIONS

The schedule was generated using a precedence network and associated software. Activity durations were based upon the actual man-hour estimates calculated for each area. The schedule was assembled by sequencing the work areas, considering work crew availability and material access/egress. The following assumptions were made in the development of the decommissioning schedule:

- The spent fuel storage areas of the fuel handling buildings are isolated until such time that all spent fuel has been discharged from the storage pools to the DOE or to the ISFSI. Decontamination and dismantling of the storage pools are initiated once the transfer of spent fuel is complete (DECON alternative).
- All work (except vessel and internals removal activities) will be performed during an 8-hour workday, 5 days per week, with no overtime. There are eleven paid holidays per year.
- Reactor and internals removal activities will be performed by using separate crews for different activities working on different shifts, with a corresponding backshift charge for the second shift.
- Multiple crews will work parallel activities to the maximum extent possible, consistent with: optimum efficiency; adequate access for cutting, removal and laydown space; and the stringent safety measures necessary during demolition of heavy components and structures.
- For plant systems removal, the systems with the longest removal durations in areas on the critical path were considered to determine the duration of the activity.

4.2 PROJECT SCHEDULE

The period-dependent costs presented in Appendices C and D were based upon the durations developed in the schedules for the decommissioning of the site. Durations were established between several milestones in each project period; these durations were used to establish a critical path for the entire project. In turn, the critical path duration for each period was used as the basis for determining the period-dependent costs. A second critical path is also shown for the spent fuel cooling period, which determines the release of the reactor buildings for final decontamination.

Project timelines are shown in this section as Figures 4.2 and 4.3, with milestone dates based on the 2050 and 2053 shutdown dates for Units 1 and 2, respectively. The fuel pools are emptied approximately five and one half years after Unit 2 shutdown, while ISFSI operations continue until the DOE can complete the transfer of assemblies. Deferred decommissioning in the SAFSTOR alternative is assumed to commence so that the site can be released for alternative use, excluding the ISFSI, within a 60-year period from the cessation of plant operations.

FIGURE 4.1
DECON ACTIVITY SCHEDULE

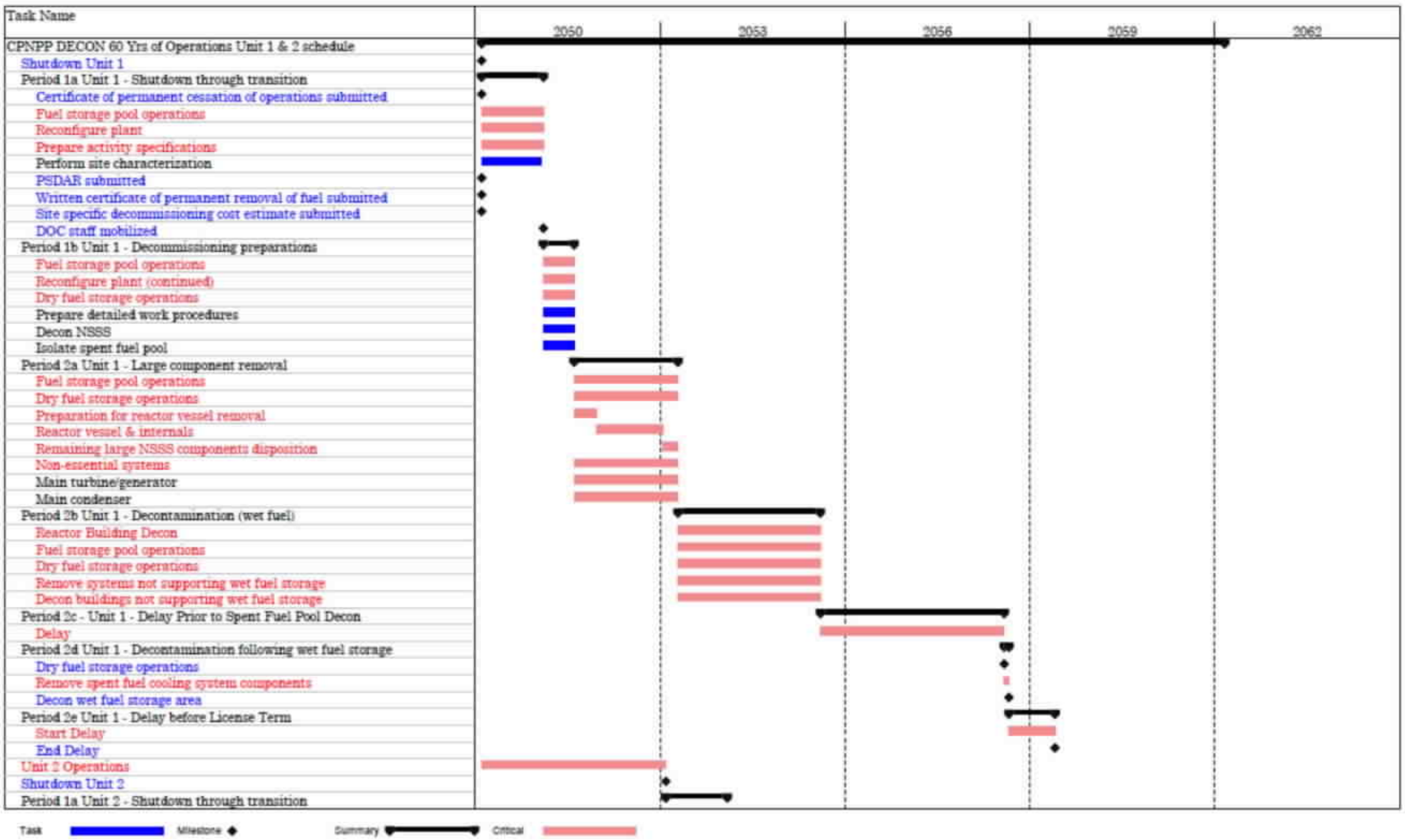


FIGURE 4.1 (continued)
DECON ACTIVITY SCHEDULE

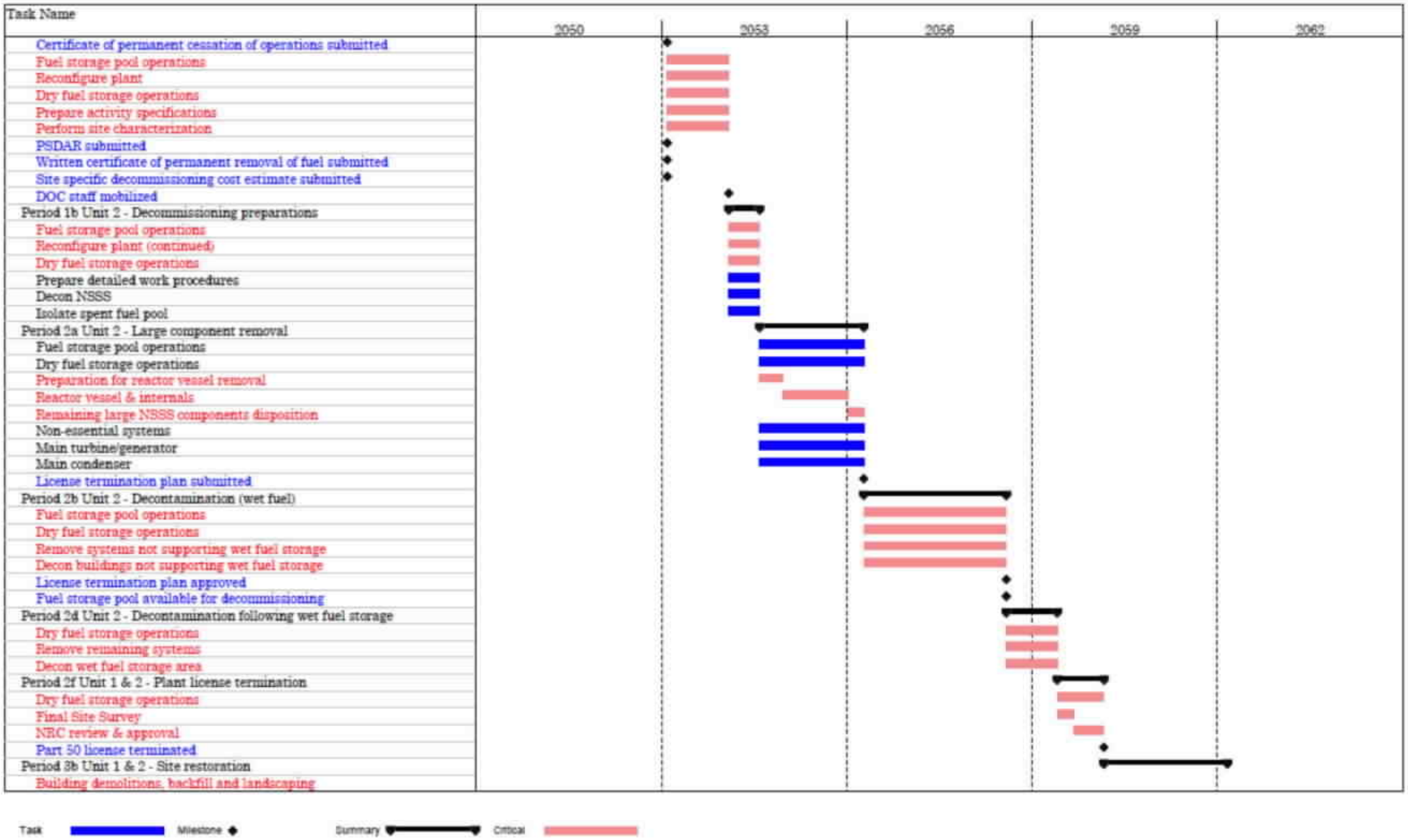


FIGURE 4.2
DECOMMISSIONING TIMELINE
DECON
(not to scale)

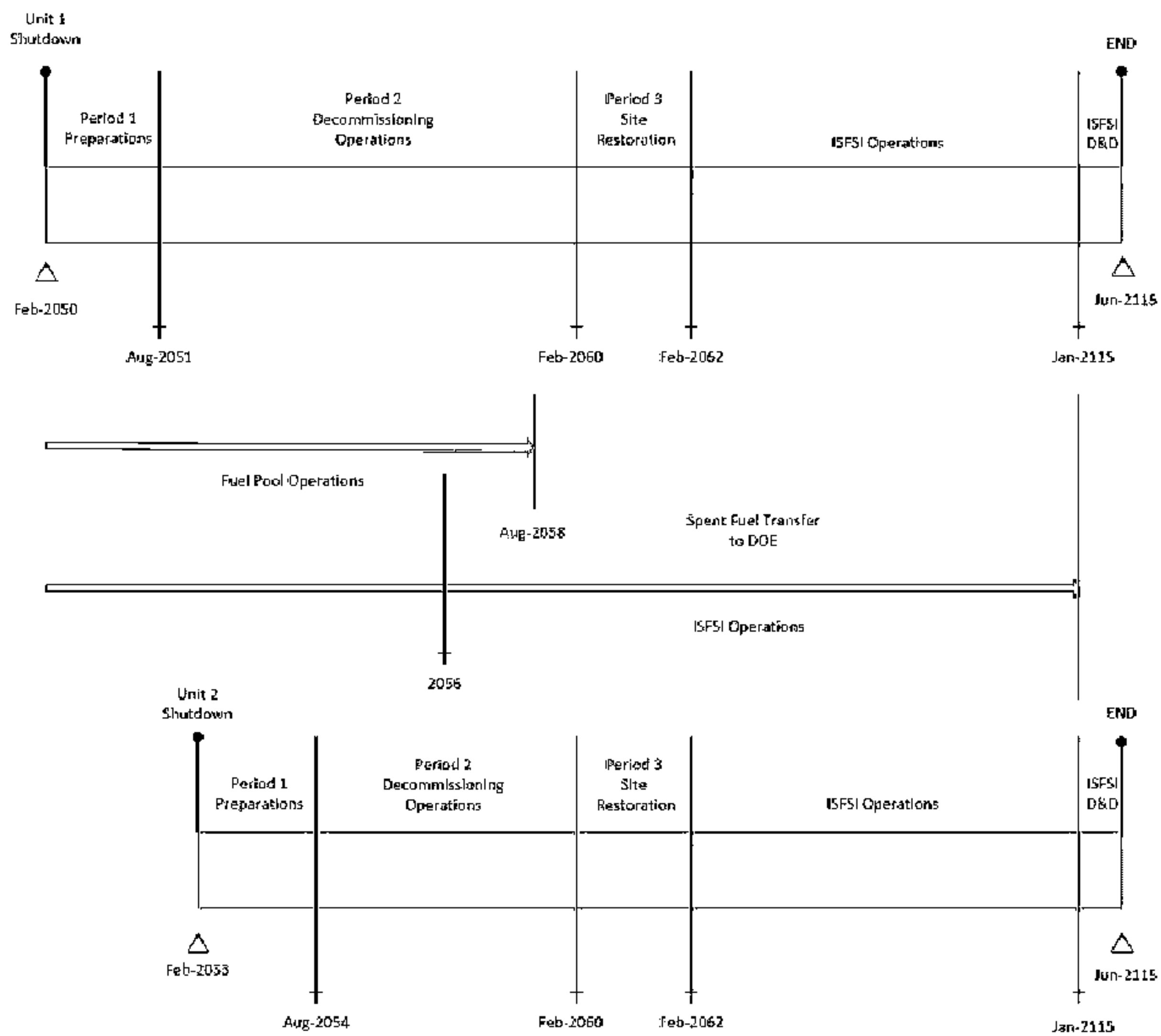
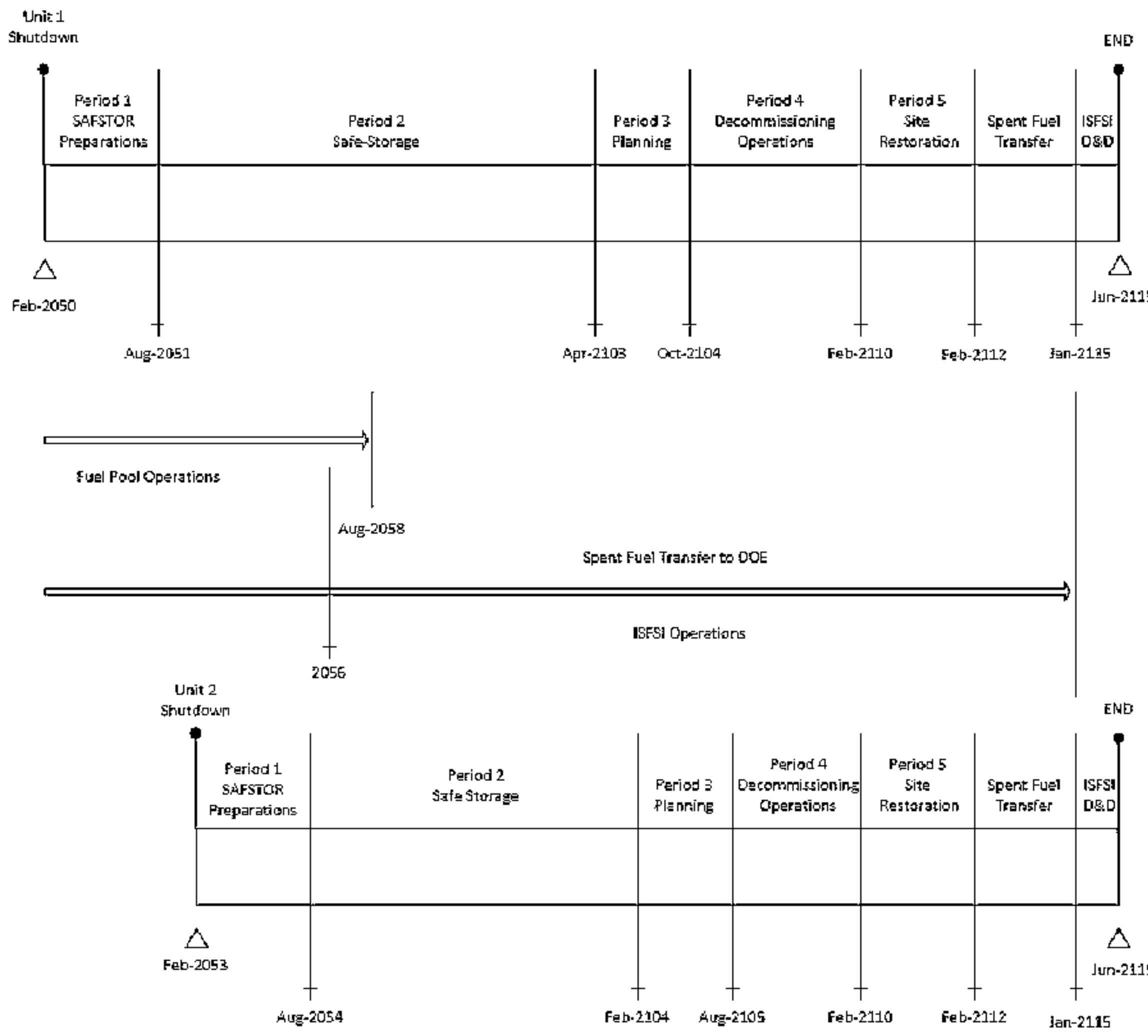


FIGURE 4.3
DECOMMISSIONING TIMELINE
SAFSTOR
(not to scale)



5. RADIOACTIVE WASTES

The objectives of the decommissioning process are the removal of all radioactive material from the site that would restrict its future use and the termination of the NRC license(s). This currently requires the remediation of all radioactive material at the site in excess of applicable legal limits. Under the Atomic Energy Act,[31] the NRC is responsible for protecting the public from sources of ionizing radiation. Title 10 of the Code of Federal Regulations (CFR) delineates the production, utilization, and disposal of radioactive materials and processes. In particular, 10 CFR Part 71 defines the requirements for packaging and transportation of radioactive material and 10 CFR Part 61 defines the criteria and procedures by which the NRC issues licenses for the disposal of radioactive waste. 10 CFR 61.55(a)(2)(iv) states that GTCC waste requires disposal in a geologic repository unless otherwise approved by the NRC.[32]

Most of the materials being transported for controlled burial are categorized as low specific activity (LSA) or surface contaminated object (SCO) materials containing Type A quantities, as defined in 49 CFR Part 173.[33] Shipping containers are required to be Industrial Packages (IP-1, IP-2 or IP-3). For this study, commercially available steel containers are presumed to be used for the disposal of piping, small components, and concrete. Larger components can serve as their own containers, with proper closure of all openings, access ways, and penetrations. The transport of large intact components, e.g., large heat exchangers and other oversized components, is by a combination of truck, rail, and/or multi-wheeled transporter.

The reactor vessel and internal components are expected to be transported in accordance with Part 71,[34] as Type B. Any fuel cladding failure that occurred during the lifetime of the plant is assumed to have released fission products at sufficiently low levels that the buildup of quantities of long-lived isotopes (e.g., ^{137}Cs, ^{90}Sr, or transuranics) has been prevented from reaching levels exceeding those that permit the major reactor components to be shipped under current transportation regulations and disposal requirements. These are categorized as large quantity shipments and, accordingly, will be shipped in reusable, shielded truck casks with disposable liners. In calculating disposal costs, the burial fees were applied against the liner volume and the special handling requirements of the payload. Packaging efficiencies are lower for the highly activated materials (greater than Class A waste), where high concentrations of gamma-emitting radionuclides limit the capacity of the shipping canisters.

No process system containing/handling radioactive substances at shutdown is presumed to meet material release criteria by decay alone, i.e., systems radioactive at shutdown will still be radioactive over the time period during which the decommissioning is accomplished, due to the presence of long-lived radionuclides. While the dose rates decrease with time, radionuclides such as ^{137}Cs will still control the disposition requirements.

The waste material generated in the decontamination and dismantling of the site will primarily be generated during Period 2 of DECON and Period 4 of SAFSTOR. Contaminated components and activated materials will be routed for controlled disposal.

Costs for asbestos abatement and the disposal of mixed wastes are included in the estimates.

For purposes of constructing the estimates, all wastes were assumed to be disposed of at Waste Control Specialists' (WCS) facility in Andrews, Texas. Rates were based on the most current WCS contract provided by CPPC.

Transportation costs for radioactive material are based upon the mileage to the WCS facility in Andrews County, Texas. The transportation cost for the GTCC material is assumed to be contained within the disposal cost. Truck transport costs are developed from published tariffs from Tri-State Motor Transit.[35]

The destinations for the various waste streams from decommissioning are identified in Figures 5.1 and 5.2. The volumes of radioactive waste generated during the various decommissioning activities at the site are shown on a line-item basis in Appendices C and D and summarized in Tables 5.1 and 5.2. The quantified waste volume summaries shown in these tables are consistent with Part 61 classifications. The volumes were calculated based on the exterior dimensions for containerized material. The volumes were calculated on the displaced volume of components serving as their own waste containers.

FIGURE 5.1
RADIOACTIVE WASTE DISPOSITION

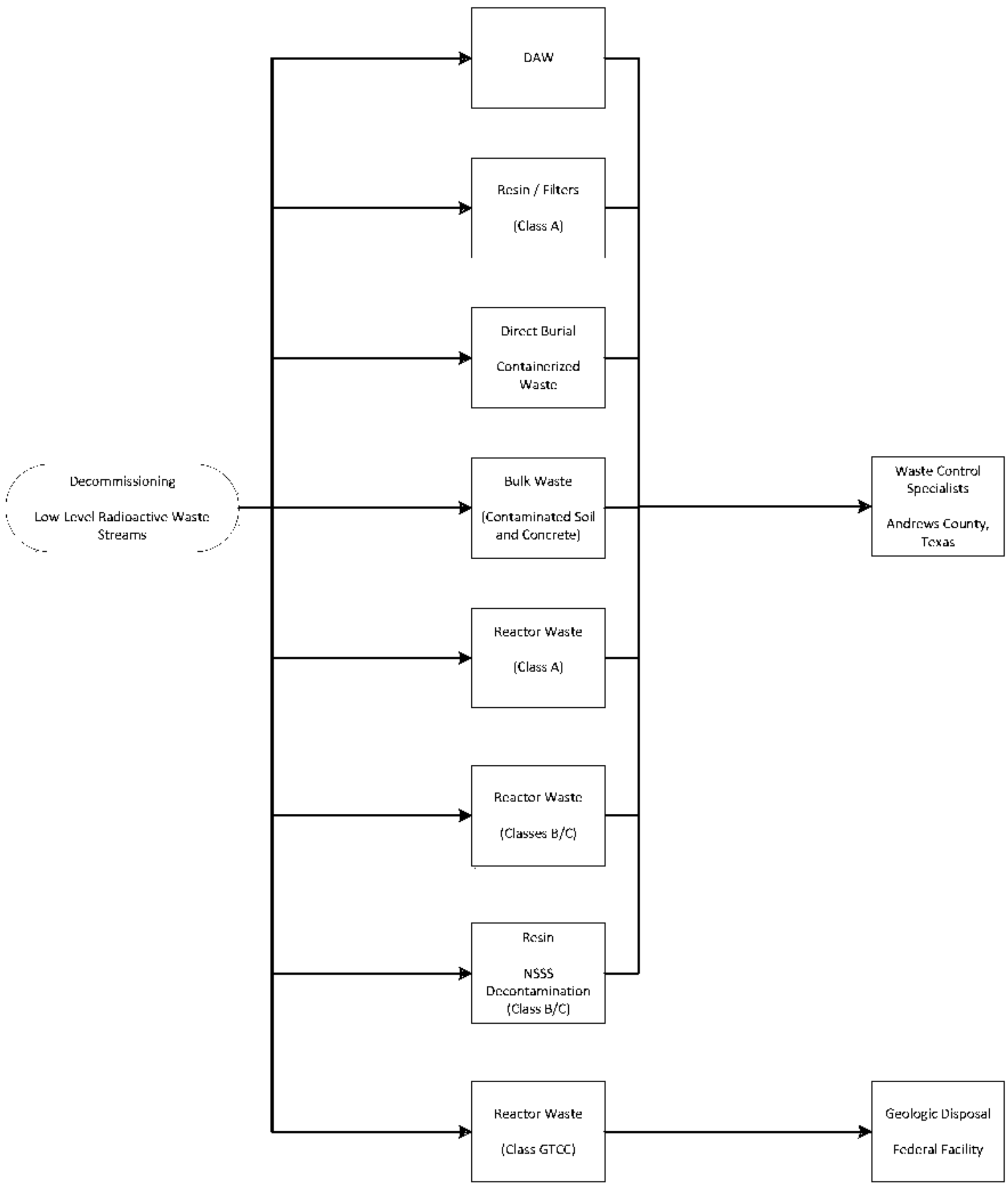


FIGURE 5.2
DECOMMISSIONING WASTE DESTINATIONS
RADIOLOGICAL

TABLE 5.1
DECOMMISSIONING WASTE SUMMARY
DECON ALTERNATIVE

Waste	Cost Basis	Class[1]	Waste Volume (cubic feet)	Mass (pounds)
Low-Level Radioactive Waste (near-surface disposal)	Waste Control Specialists (WCS)	A	865,406	55,406,705
		B	3,653	418,723
		C	673	90,169
Greater than Class C (geologic repository)	Spent Fuel Equivalent	GTCC	4,123	803,947
Total [2]			873,856	56,719,544

[1] Waste is classified according to the requirements as delineated in Part 61.55
[2] Columns may not summarize to exact Estimate Total due to rounding

TABLE 5.2
DECOMMISSIONING WASTE SUMMARY
SAFSTOR ALTERNATIVE

Waste	Cost Basis	Class[1]	Waste Volume (cubic feet)	Mass (pounds)
Low-Level Radioactive Waste (near-surface disposal)	Waste Control Specialists (WCS)	A	860,953	54,300,249
		B	1,002	101,000
		C	673	90,169
Greater than Class C (geologic repository)	Spent Fuel Equivalent	GTCC	4,123	803,947
Total [2]			866,751	55,295,365

[1] Waste is classified according to the requirements as delineated in Part 61.55
[2] Columns may not summarize to exact Estimate Total due to rounding

6. RESULTS

Costs were developed to decommission Comanche Peak following a scheduled cessation of plant operations. The analyses relied upon the most recent previous study performed in 2019 supplemented with updated information supplied by CPPC, to reflect current plant design conditions and operating assumptions. While not an engineering study, the study does provide sufficient information to assess the financial obligations as they pertain to the eventual decommissioning of the nuclear station.

The estimates described in this study were based on numerous fundamental assumptions, including a 60-year operating life, regulatory requirements, project contingencies, low-level radioactive waste disposal practices, high-level radioactive waste management options, and site restoration requirements. The decommissioning scenario assumed continued operation of the plant's spent fuel pools for approximately five and one half years following the cessation of operations for continued cooling of the assemblies. The ISFSI will be expanded to allow transfer of all fuel from the spent fuel pools and the orderly progression of decommissioning activities. The ISFSI will be decontaminated and demolished once the DOE completes the transfer of the assemblies and the GTCC material to its repository.

The costs projected to promptly decommission (DECON) Comanche Peak are estimated to be $1,065.1 million for Unit 1 and $1,089.9 million for Unit 2. The majority of the $2,155.0 million cost (approximately 63.8%) is associated with the physical decontamination and dismantling of the nuclear units, so that the operating licenses can be terminated. Caretaking and handling of the spent fuel and termination of the ISFSI license, constitutes an additional 29.7% of the cost. The remaining 6.5% is for the demolition of the remaining structures and limited restoration of the site.

The costs projected for deferred decommissioning (SAFSTOR) of Comanche Peak are estimated to be $1,215.5 million for Unit 1 and $1,225.2 million for Unit 2. The majority of the $2,440.7 million cost (approximately 71.4%) is associated with the physical decontamination and dismantling of the nuclear units, so that the operating licenses can be terminated. Caretaking and handling of the spent fuel and termination of the ISFSI license, constitutes an additional 22.8% of the cost. The remaining 5.8% is for the demolition of the remaining structures and limited restoration of the site.

The primary cost contributors, identified in Tables 6.1 and 6.2, are either labor-related, ISFSI related, or associated with the management and disposition of the radioactive waste. Program management is the largest single contributor to the overall cost. The magnitude of the expense is a function of both the size of the organization required to manage the decommissioning and the duration of the program. It was assumed, for purposes of this study, that the utility would oversee the decommissioning program, managing the decommissioning labor force and the associated subcontractors. The size and composition of the management organization will vary with the decommissioning phase and associated site activities. However, once the operating licenses have been terminated, the staff will reduce substantially for the conventional demolition and restoration of the site, and for the long-term care of the spent fuel.

As described in this study, the spent fuel pools will remain operational for approximately five and one half years following the cessation of plant operations. The pools will be isolated and independent spent fuel islands created. This will allow decommissioning operations to proceed in and around the reactor buildings. Over the five and one half-year period, the spent fuel will be packaged into transportable steel canisters for loading into a DOE-provided transport cask. The canisters will be transferred directly to the DOE or stored in concrete overpacks at the ISFSI until the DOE is able to receive them.

The cost for waste disposal includes only those costs associated with the controlled disposition of the low-level radioactive waste generated from decontamination and dismantling activities, including plant equipment and components, structural material, filters, resins and dry-active waste. As described in Section 5, disposal of the radioactive material will be at the WCS facility in Andrews County, Texas. Highly radioactive reactor vessel internal components (GTCC waste), requiring additional isolation from the environment, will be packaged for geologic disposal. The cost of geologic disposal was based upon a weight-cost equivalent for spent fuel.

Removal costs reflect the labor-intensive nature of the decommissioning process and the management controls required to ensure a safe and successful program. Decontamination and packaging costs also have a large labor component that is based upon prevailing union wages. Non-radiological demolition is a natural extension of the decommissioning process. The methods employed in decontamination and dismantling are generally destructive and indiscriminate in inflicting collateral damage. With a work force mobilized to support decommissioning operations, non-radiological demolition can be an integrated activity and a logical expansion of the work being performed in the process of terminating the operating license. Prompt demolition reduces future liabilities and could be more cost-effective than deferral, due to the ultimate deterioration of facilities (and therefore the working conditions).

The reported cost for transport includes the tariffs and surcharges associated with moving large components and/or overweight shielded casks overland, and the general expense, e.g., labor and fuel, of transporting material to the destinations identified in this study. For purposes of these estimates, material will be primarily shipped to the waste disposal facilities by truck.

Decontamination will be used to reduce the plants radiation fields and minimize worker exposure.

License termination survey costs were associated with the labor intensive and complex activity of verifying that contamination has been removed from the site to the levels specified by the regulating agency. This process involves a systematic survey of all remaining plant surface areas and surrounding environs, sampling, isotopic analysis, and documentation of the findings. The status of any plant components and materials not removed in the decommissioning process will also require confirmation and will add to the expense of surveying the facilities alone.

The remaining costs include allocations for heavy equipment and temporary services, and other expenses such as regulatory fees and the premiums for nuclear insurance. While site operating costs are greatly reduced following the final cessation of plant operations, certain administrative functions do need to be maintained at a basic functional and regulatory level.

TABLE 6.1
DECON ALTERNATIVE
DECOMMISSIONING COST ELEMENTS

Cost Element	Unit 1	Unit 2	Total	%
Decontamination	13,646	20,322	33,968	1.6%
Removal	113,689	165,560	279,249	13.0%
Packaging	37,756	38,219	75,975	3.5%
Transportation	14,015	11,937	25,952	1.2%
Waste Disposal	92,854	92,295	185,149	8.6%
Off-site Waste Processing[1]	0	0	0	0.0%
Program Management[2]	321,583	357,260	678,843	31.5%
Security	142,249	121,883	264,132	12.3%
Spent Fuel Pool Isolation	17,313	11,542	28,855	1.3%
Spent Fuel Management (Direct Costs)[3]	165,526	152,144	317,670	14.7%
Insurance and Regulatory Fees	34,091	27,620	61,712	2.9%
Energy	22,565	16,749	39,314	1.8%
Characterization and Licensing Surveys	20,959	21,759	42,718	2.0%
Property Taxes	46,530	30,690	77,220	3.6%
Miscellaneous Equipment	9,868	9,422	19,290	0.9%
Decommissioning Staff Severance	12,470	12,470	24,941	1.2%
Total[4]	1,065,116	1,089,873	2,154,989	100.0
NRC License Termination	683,696	691,713	1,375,409	63.8%
Spent Fuel Management	326,525	313,790	640,314	29.7%
Site Restoration	54,896	84,370	139,265	6.5%
Total[4]	1,065,116	1,089,873	2,154,989	100.0

[1] Not currently cost competitive with direct waste disposal
[2] Includes engineering costs
[3] Excludes program management costs (staffing) but includes costs for spent fuel loading, transfer, spent fuel pools O&M, and EP fees
[4] Columns may not summarize to exact Estimate Total due to rounding

TABLE 6.2
SAFSTOR ALTERNATIVE
DECOMMISSIONING COST ELEMENTS

Cost Element	Unit 1	Unit 2	Total	%
Decontamination	11,105	18,379	29,484	1.2%
Removal	123,283	171,076	294,359	12.1%
Packaging	30,814	31,105	61,920	2.5%
Transportation	12,551	10,093	22,644	0.9%
Waste Disposal	89,249	87,849	177,098	7.3%
Off-site Waste Processing[1]	0	0	0	0.0%
Program Management[2]	393,228	394,349	787,577	32.3%
Security	182,439	162,074	344,513	14.1%
Spent Fuel Pool Isolation	17,313	11,542	28,855	1.2%
Spent Fuel Management (Direct Costs)[3]	152,054	138,671	290,725	11.9%
Insurance and Regulatory Fees	67,485	60,978	128,463	5.3%
Energy	34,367	32,285	66,652	2.7%
Characterization and Licensing Surveys	21,636	21,669	43,305	1.8%
Property Taxes	46,530	30,690	77,220	3.2%
Miscellaneous Equipment	20,976	41,998	62,974	2.6%
Decommissioning Staff Severance	12,470	12,470	24,941	1.0%
Total[4]	1,215,500	1,225,229	2,440,729	100.0
NRC License Termination	872,769	870,287	1,743,056	71.4%
Spent Fuel Management	286,808	269,570	556,377	22.8%
Site Restoration	55,923	85,372	141,295	5.8%
Total[4]	1,215,500	1,225,229	2,440,729	100.0

[1] Not currently cost competitive with direct waste disposal
[2] Includes engineering costs
[3] Excludes program management costs (staffing) but includes costs for spent fuel loading, transfer, spent fuel pools O&M, and EP fees
[4] Columns may not summarize to exact Estimate Total due to rounding

FIGURE 6.1
DECON DECOMMISSIONING COST ELEMENTS BY CATEGORY

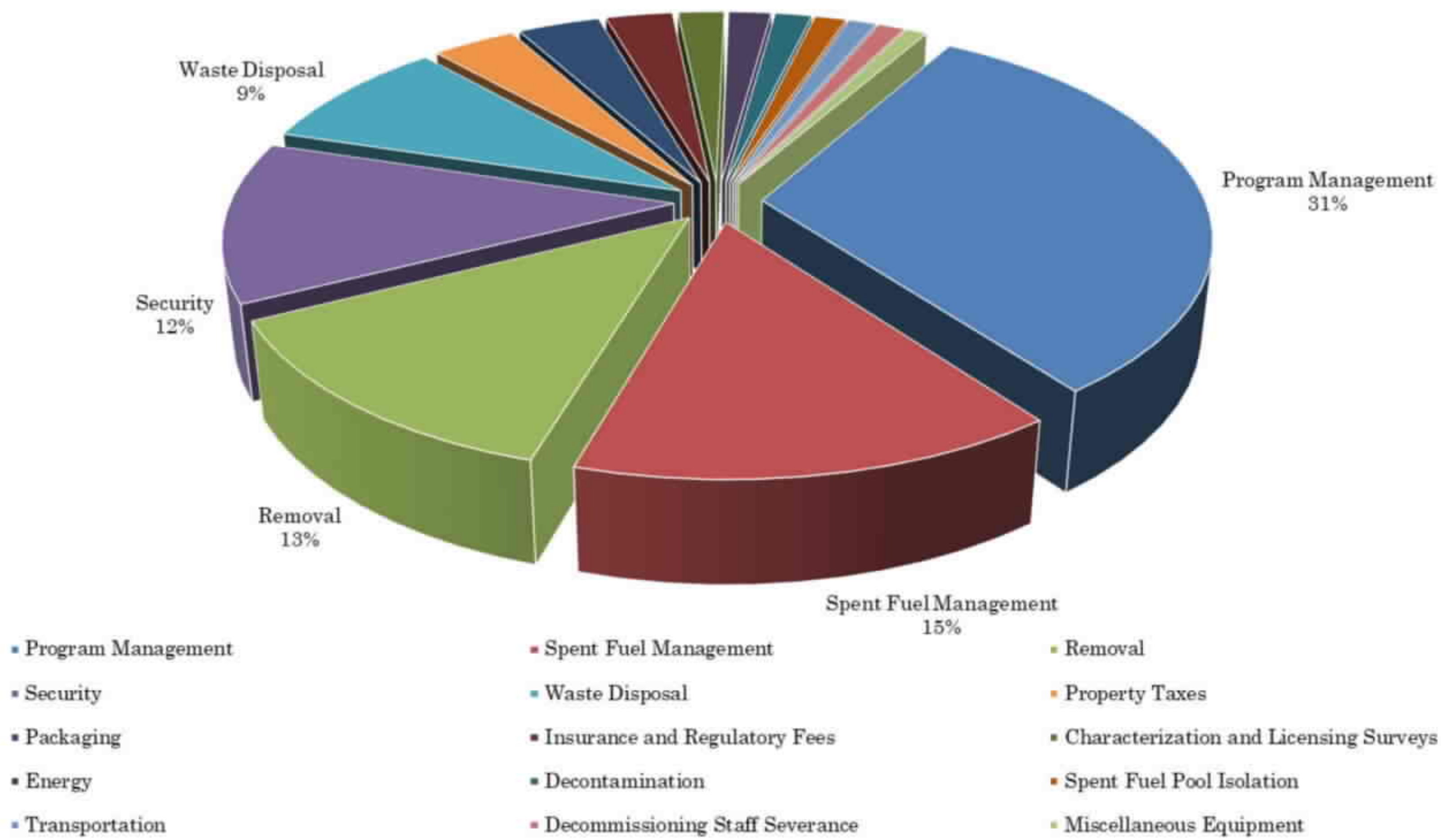
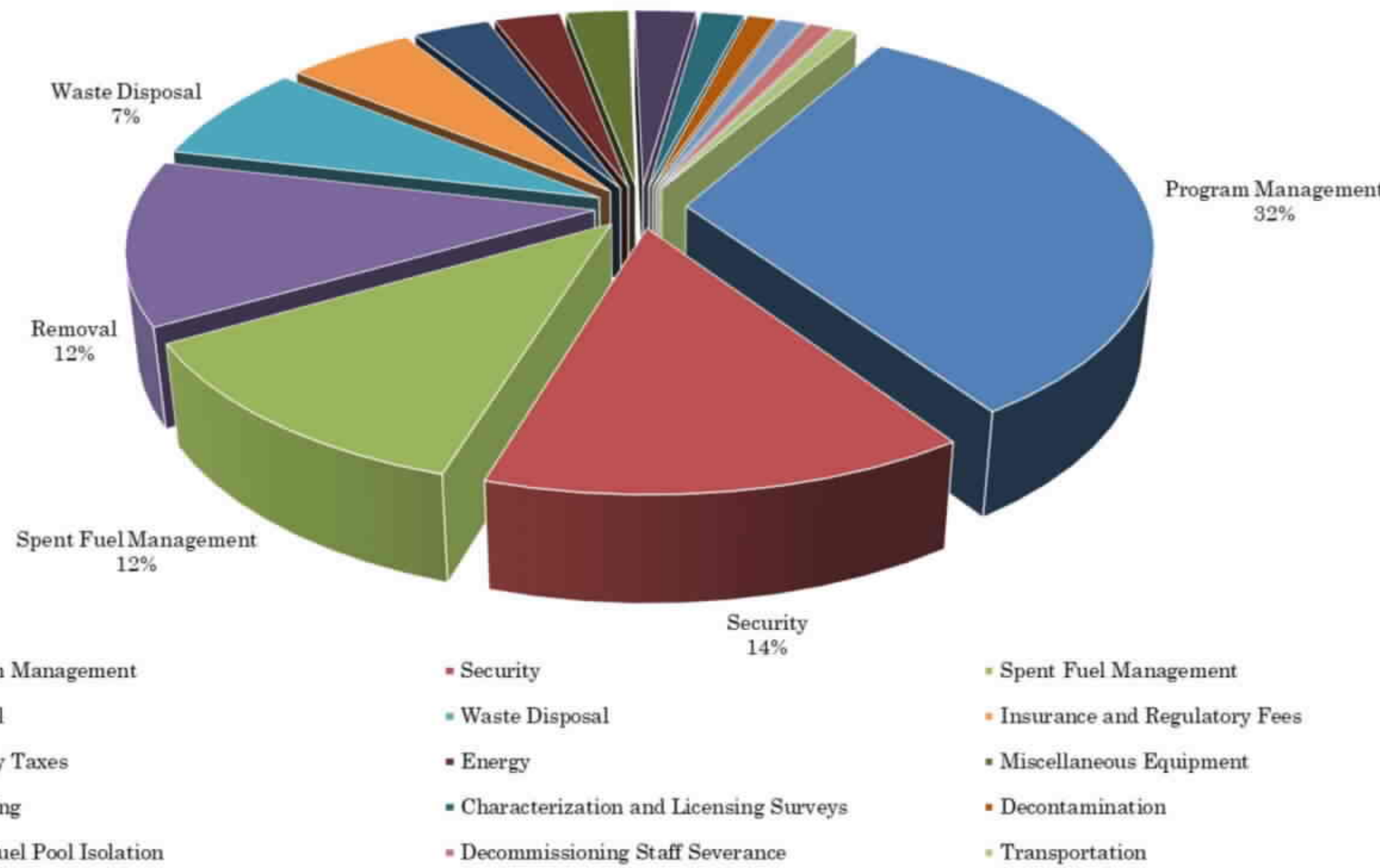


FIGURE 6.2
SAFSTOR DECOMMISSIONING COST ELEMENTS BY CATEGORY



7. REFERENCES

1. "Decommissioning Cost Analysis for the Comanche Peak Nuclear Power Plant: 60-Year Plant Operations," Document V14-1774-003, Rev. 0, TLG Services, Inc., May 2020

2. U.S. Code of Federal Regulations, Title 10, Parts 30, 40, 50, 51, 70 and 72, "General Requirements for Decommissioning Nuclear Facilities," Nuclear Regulatory Commission, 53 Fed. Reg. 24018, June 27, 1988 [Open]

3. U.S. Nuclear Regulatory Commission, Regulatory Guide 1.159, "Assuring the Availability of Funds for Decommissioning Nuclear Reactors," Rev. 2, October 2011 [Open]

4. U.S. Code of Federal Regulations, Title 10, Parts 2, 50 and 51, "Decommissioning of Nuclear Power Reactors," Nuclear Regulatory Commission, 61 Fed. Reg. 39278, July 29, 1996 [Open]

5. U.S. Code of Federal Regulations, Title 10, Parts 20, 30, 40, 50, 70, and 72, "Decommissioning Planning," Nuclear Regulatory Commission, Federal Register Volume 76, (p 35512 et seq.), June 17, 2011 [Open]

6. "Nuclear Waste Policy Act of 1982," 42 U.S. Code 10101, et seq. [Open]

7. Charter of the Blue Ribbon Commission on America's Nuclear Future, "Objectives and Scope of Activities" [Open]

8. "Blue Ribbon Commission on America's Nuclear Future, Report to the Secretary of Energy," p. 27, 32, January 2012 [Open]

9. "Consent-Based Siting Process for Federal Consolidated Interim Storage of Spent Nuclear Fuel", April 2023 [Open]

10. State of Texas v. NRC, United States Court of Appeals for the Fifth Circuit, August 25, 2023 [Open]

11. "Acceptance Priority Ranking & Annual Capacity Report," DOE/RW-0567, July 2004 [Open]

7. REFERENCES
(continued)

12. U.S. Code of Federal Regulations, Title 10, Part 50, "Domestic Licensing of Production and Utilization Facilities," Subpart 54 (bb), "Conditions of Licenses" [Open]

13. "Low-Level Radioactive Waste Policy Act of 1980," Public Law 96-573, 1980 [Open]

14. "Low-Level Radioactive Waste Policy Amendments Act of 1985," Public Law 99-240, January 15, 1986 [Open]

15. U.S. Code of Federal Regulations, Title 10, Part 20, Subpart E, "Final Rule, Radiological Criteria for License Termination," 62 Fed. Reg. 39058, July 21, 1997 [Open]

16. "Memorandum of Understanding Between the Environmental Protection Agency and the Nuclear Regulatory Commission: Consultation and Finality on Decommissioning and Decontamination of Contaminated Sites," OSWER 9295.8-06a, October 9, 2002 [Open]

17. "Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM)," NUREG-1575, Rev. 1, EPA 402-R-97-016, Rev. 1, August 2000 [Open]

18. U.S. Code of Federal Regulations, Title 10, Part 72, Subpart K, "General License for Storage of Spent Fuel at Power Reactor Sites" [Open]

19. T.S. LaGuardia et al., "Guidelines for Producing Commercial Nuclear Power Plant Decommissioning Cost Estimates," AIF/NESP-036, May 1986 [Open]

20. W.J. Manion and T.S. LaGuardia, "Decommissioning Handbook," U.S. Department of Energy, DOE/EV/10128-1, November 1980 [Open]

21. "Building Construction Cost Data 2024," RSMeans (From the Gordian Group)Rockland, Massachusetts [Open]

22. Decommissioning of Nuclear Power Reactors," Regulatory Guide 1.184 Revision 1, Nuclear Regulatory Commission, October 2013 [Open]

7. REFERENCES
(continued)

23. "Standard Format and Content of Decommissioning Cost Estimates for Nuclear Power Reactors," Regulatory Guide 1.202, Nuclear Regulatory Commission, February 2005 [Open]

24. Project and Cost Engineers' Handbook, Second Edition, p. 239, American Association of Cost Engineers, Marcel Dekker, Inc., New York, New York, 1984

25. DOE/RW-0351, "Civilian Radioactive Waste Management System Waste Acceptance System Requirements Document,", Revision 5, May 31, 2007 [Open]

26. J.C. Evans et al., "Long-Lived Activation Products in Reactor Materials" NUREG/CR-3474, Pacific Northwest Laboratory for the Nuclear Regulatory Commission, August 1984 [Open]

27. R.I. Smith, G.J. Konzek, W.E. Kennedy, Jr., "Technology, Safety and Costs of Decommissioning a Reference Pressurized Water Reactor Power Station," NUREG/CR-0130 and addenda, Pacific Northwest Laboratory for the Nuclear Regulatory Commission, June 1978 [Open Main Report] [Open Appendices]

28. H.D. Oak, et al., "Technology, Safety and Costs of Decommissioning a Reference Boiling Water Reactor Power Station," NUREG/CR-0672 and addenda, Pacific Northwest Laboratory for the Nuclear Regulatory Commission, June 1980 [Open Main Report] [Open Appendices]

29. SECY-00-0145, "Integrated Rulemaking Plan for Nuclear Power Plant Decommissioning," June 2000 [Open]

30. "Microsoft Office Project Professional 2016," Microsoft Corporation

31. "Atomic Energy Act of 1954," (68 Stat. 919) [Open]

32. U.S. Code of Federal Regulations, Title 10, Part 61, "Licensing Requirements for Land Disposal of Radioactive Waste" [Open]

33. U.S. Department of Transportation, Section 49 of the Code of Federal Regulations, "Transportation," Parts 173 through 178 [Open]

7. REFERENCES
(continued)

34. U.S. Code of Federal Regulations, Title 10, Part 71, "Packaging and Transportation of Radioactive Material" [Open]

35. Tri-State Motor Transit Company, published tariffs, as amended

APPENDIX A

UNIT COST FACTOR DEVELOPMENT

APPENDIX A
UNIT COST FACTOR DEVELOPMENT

Example: Unit Factor for Removal of Contaminated Heat Exchanger < 3,000 lbs.

1. SCOPE

Heat exchangers weighing < 3,000 lbs. will be removed in one piece using a crane or small hoist. They will be disconnected from the inlet and outlet piping. The heat exchanger will be sent to the waste processing area.

2. CALCULATIONS

Act ID	Activity Description	Activity Duration	Critical Duration*
a	Remove insulation	60	(b)
b	Mount pipe cutters	60	60
c	Install contamination controls	20	(b)
d	Disconnect inlet and outlet lines	60	60
e	Cap openings	20	(d)
f	Rig for removal	30	30
g	Unbolt from mounts	30	30
h	Remove contamination controls	15	15
i	Remove, wrap in plastic, send to the waste processing area	60	60
	Totals (Activity/Critical)	355	255

Duration adjustment(s):	
+ Respiratory protection adjustment (50% of critical duration)	128
+ Radiation/ALARA adjustment (37.1% of critical duration)	95
Adjusted work duration	478
+ Protective clothing adjustment (30% of adjusted duration)	143
Productive work duration	621
+ Work break adjustment (8.33 % of productive duration)	52
Total work duration min	673 min

***** Total duration = 11.217 hr *****

* *Note: (alpha designation) indicates activities that can be performed in parallel with corresponding Act ID (within critical duration)*

APPENDIX A
(continued)

3. LABOR REQUIRED

Crew	Number	Duration (hr)	Rate ($/hr)	Cost
Laborers	3.00	11.217	25.55	859.78
Craftsmen	2.00	11.217	41.89	939.76
Foreman	1.00	11.217	46.35	519.91
General Foreman	0.25	11.217	49.44	138.64
Fire Watch	0.05	11.217	25.55	14.33
Health Physics Technician	1.00	11.217	54.78	614.47

Total labor cost $3,086.89

4. EQUIPMENT & CONSUMABLES COSTS

Equipment Costs none

Consumables/Materials Costs
-Gas torch consumables 1 @ $23.24/hr x 1 hr {1} $23.24
-Blotting paper 50 @ $0.76/sq ft {2} $38.00
-Tarpaulin 50 @ $0.44sq ft {3} $22.00

Subtotal cost of equipment and materials $83.24
Overhead & sales tax on equipment and materials @ 16.25 % $13.53

Total costs, equipment & material $96.77

TOTAL COST:
Removal of contaminated heat exchanger <3000 pounds: $ 3,183.66

Total labor cost: $3,086.89
Total equipment/material costs: $96.77
Total craft labor man-hours required per unit: 81.884

5. NOTES AND REFERENCES

- Work difficulty factors were developed in conjunction with the Atomic Industrial Forum (AIF) (now Nuclear Energy Institute) program to standardize nuclear decommissioning cost estimates and are delineated in Volume 1, Chapter 5 of the "Guidelines for Producing Commercial Nuclear Power Plant Decommissioning Cost Estimates," AIF/NESP-036, May 1986.

- References for equipment & consumables costs:

  1. RSMeans (2024) Line Number 01 54 33 40-6360, page 744
  2. www.mcmaster.com online catalog, McMaster Carr Spill Control (7193T88)
  3. RSMeans (2024) Division 01 56, Section 13.60-0600, page 23

- Material and consumable costs were adjusted using the regional indices for Dallas, Texas.

APPENDIX B

UNIT COST FACTOR LISTING
(DECON: Power Block Structures Only)

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Removal of clean instrument and sampling tubing, $/linear foot	0.31
Removal of clean pipe 0.25 to 2 inches diameter, $/linear foot	3.22
Removal of clean pipe >2 to 4 inches diameter, $/linear foot	4.77
Removal of clean pipe >4 to 8 inches diameter, $/linear foot	9.66
Removal of clean pipe >8 to 14 inches diameter, $/linear foot	18.12
Removal of clean pipe >14 to 20 inches diameter, $/linear foot	23.80
Removal of clean pipe >20 to 36 inches diameter, $/linear foot	34.96
Removal of clean pipe >36 inches diameter, $/linear foot	41.43
Removal of clean valve >2 to 4 inches	64.33
Removal of clean valve >4 to 8 inches	96.63
Removal of clean valve >8 to 14 inches	181.25
Removal of clean valve >14 to 20 inches	237.97
Removal of clean valve >20 to 36 inches	349.56
Removal of clean valve >36 inches	414.31
Removal of clean pipe hanger for small bore piping	24.72
Removal of clean pipe hanger for large bore piping	79.43
Removal of clean pump, <300 pound	167.88
Removal of clean pump, 300-1000 pound	467.72
Removal of clean pump, 1000-10,000 pound	1,806.84
Removal of clean pump, >10,000 pound	3,511.44
Removal of clean pump motor, 300-1000 pound	191.66
Removal of clean pump motor, 1000-10,000 pound	745.11
Removal of clean pump motor, >10,000 pound	1,676.50
Removal of clean heat exchanger <3000 pound	982.09
Removal of clean heat exchanger >3000 pound	2,495.86
Removal of clean feedwater heater/deaerator	6,951.99
Removal of clean moisture separator/reheater	14,180.80
Removal of clean tank, <300 gallons	215.39
Removal of clean tank, 300-3000 gallon	669.86
Removal of clean tank, >3000 gallons, $/square foot surface area	5.81

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Removal of clean electrical equipment, <300 pound	87.73
Removal of clean electrical equipment, 300-1000 pound	312.04
Removal of clean electrical equipment, 1000-10,000 pound	624.08
Removal of clean electrical equipment, >10,000 pound	1,510.00
Removal of clean electrical transformer < 30 tons	1,048.68
Removal of clean electrical transformer > 30 tons	3,020.01
Removal of clean standby diesel generator, <100 kW	1,071.13
Removal of clean standby diesel generator, 100 kW to 1 MW	2,390.84
Removal of clean standby diesel generator, >1 MW	4,949.51
Removal of clean electrical cable tray, $/linear foot	8.49
Removal of clean electrical conduit, $/linear foot	3.72
Removal of clean mechanical equipment, <300 pound	87.73
Removal of clean mechanical equipment, 300-1000 pound	312.04
Removal of clean mechanical equipment, 1000-10,000 pound	624.08
Removal of clean mechanical equipment, >10,000 pound	1,510.00
Removal of clean HVAC equipment, <300 pound	106.07
Removal of clean HVAC equipment, 300-1000 pound	374.95
Removal of clean HVAC equipment, 1000-10,000 pound	747.28
Removal of clean HVAC equipment, >10,000 pound	1,510.00
Removal of clean HVAC ductwork, $/pound	0.33
Removal of contaminated instrument and sampling tubing, $/linear foot	1.16
Removal of contaminated pipe 0.25 to 2 inches diameter, $/linear foot	18.40
Removal of contaminated pipe >2 to 4 inches diameter, $/linear foot	29.29
Removal of contaminated pipe >4 to 8 inches diameter, $/linear foot	47.38
Removal of contaminated pipe >8 to 14 inches diameter, $/linear foot	88.96
Removal of contaminated pipe >14 to 20 inches diameter, $/linear foot	105.73
Removal of contaminated pipe >20 to 36 inches diameter, $/linear foot	143.69
Removal of contaminated pipe >36 inches diameter, $/linear foot	168.49
Removal of contaminated valve >2 to 4 inches	351.36
Removal of contaminated valve >4 to 8 inches	414.36

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Removal of contaminated valve >8 to 14 inches	819.88
Removal of contaminated valve >14 to 20 inches	1,035.07
Removal of contaminated valve >20 to 36 inches	1,367.13
Removal of contaminated valve >36 inches	1,615.12
Removal of contaminated pipe hanger for small bore piping	116.00
Removal of contaminated pipe hanger for large bore piping	362.16
Removal of contaminated pump, <300 pound	746.99
Removal of contaminated pump, 300-1000 pound	1,703.31
Removal of contaminated pump, 1000-10,000 pound	5,157.72
Removal of contaminated pump, >10,000 pound	12,558.54
Removal of contaminated pump motor, 300-1000 pound	759.97
Removal of contaminated pump motor, 1000-10,000 pound	2,136.46
Removal of contaminated pump motor, >10,000 pound	4,796.94
Removal of contaminated heat exchanger <3000 pound	3,183.66
Removal of contaminated heat exchanger >3000 pound	9,351.34
Removal of contaminated tank, <300 gallons	1,250.19
Removal of contaminated tank, >300 gallons, $/square foot	23.26
Removal of contaminated electrical equipment, <300 pound	556.03
Removal of contaminated electrical equipment, 300-1000 pound	1,350.58
Removal of contaminated electrical equipment, 1000-10,000 pound	2,602.80
Removal of contaminated electrical equipment, >10,000 pound	5,140.44
Removal of contaminated electrical cable tray, $/linear foot	27.01
Removal of contaminated electrical conduit, $/linear foot	14.08
Removal of contaminated mechanical equipment, <300 pound	618.03
Removal of contaminated mechanical equipment, 300-1000 pound	1,489.41
Removal of contaminated mechanical equipment, 1000-10,000 pound	2,865.61
Removal of contaminated mechanical equipment, >10,000 pound	5,140.44
Removal of contaminated HVAC equipment, <300 pound	618.03
Removal of contaminated HVAC equipment, 300-1000 pound	1,489.41
Removal of contaminated HVAC equipment, 1000-10,000 pound	2,865.61

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Removal of contaminated HVAC equipment, >10,000 pound	5,140.44
Removal of contaminated HVAC ductwork, $/pound	1.87
Removal/plasma arc cut of contaminated thin metal components, $/linear in.	2.88
Additional decontamination of surface by washing, $/square foot	6.00
Additional decontamination of surfaces by hydrolasing, $/square foot	27.39
Decontamination rig hook up and flush, $/ 250 foot length	5,169.04
Chemical flush of components/systems, $/gallon	31.12
Removal of clean standard reinforced concrete, $/cubic yard	62.80
Removal of grade slab concrete, $/cubic yard	71.31
Removal of clean concrete floors, $/cubic yard	321.97
Removal of sections of clean concrete floors, $/cubic yard	901.06
Removal of clean heavily rein concrete w/#9 rebar, $/cubic yard	90.23
Removal of contaminated heavily rein concrete w/#9 rebar, $/cubic yard	1,789.44
Removal of clean heavily rein concrete w/#18 rebar, $/cubic yard	122.04
Removal of contaminated heavily rein concrete w/#18 rebar, $/cubic yard	2,365.20
Removal heavily rein concrete w/#18 rebar & steel embedments, $/cubic yard	446.68
Removal of below-grade suspended floors, $/cubic yard	170.76
Removal of clean monolithic concrete structures, $/cubic yard	748.67
Removal of contaminated monolithic concrete structures, $/cubic yard	1,773.03
Removal of clean foundation concrete, $/cubic yard	592.75
Removal of contaminated foundation concrete, $/cubic yard	1,652.67
Explosive demolition of bulk concrete, $/cubic yard	42.30
Removal of clean hollow masonry block wall, $/cubic yard	25.58
Removal of contaminated hollow masonry block wall, $/cubic yard	66.98
Removal of clean solid masonry block wall, $/cubic yard	25.58
Removal of contaminated solid masonry block wall, $/cubic yard	66.98
Backfill of below-grade voids, $/cubic yard	26.27
Removal of subterranean tunnels/voids, $/linear foot	85.11
Placement of concrete for below-grade voids, $/cubic yard	203.22
Excavation of clean material, $/cubic yard	2.78

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Excavation of contaminated material, $/cubic yard	37.94
Removal of clean concrete rubble (tipping fee included), $/cubic yard	26.90
Removal of contaminated concrete rubble, $/cubic yard	24.61
Removal of building by volume, $/cubic foot	0.33
Removal of clean building metal siding, $/square foot	1.08
Removal of contaminated building metal siding, $/square foot	3.95
Removal of standard asphalt roofing, $/square foot	1.45
Removal of transite panels, $/square foot	1.79
Scarifying contaminated concrete surfaces (drill & spall), $/square foot	11.58
Scabbling contaminated concrete floors, $/square foot	6.57
Scabbling contaminated concrete walls, $/square foot	16.78
Scabbling contaminated ceilings, $/square foot	57.05
Scabbling structural steel, $/square foot	5.46
Removal of clean overhead crane/monorail < 10 ton capacity	450.72
Removal of contaminated overhead crane/monorail < 10 ton capacity	1,412.28
Removal of clean overhead crane/monorail >10-50 ton capacity	1,081.73
Removal of contaminated overhead crane/monorail >10-50 ton capacity	3,388.93
Removal of polar crane > 50 ton capacity	4,587.48
Removal of gantry crane > 50 ton capacity	16,861.69
Removal of structural steel, $/pound	0.23
Removal of clean steel floor grating, $/square foot	3.68
Removal of contaminated steel floor grating, $/square foot	11.25
Removal of clean free standing steel liner, $/square foot	8.71
Removal of contaminated free standing steel liner, $/square foot	26.97
Removal of clean concrete-anchored steel liner, $/square foot	4.36
Removal of contaminated concrete-anchored steel liner, $/square foot	31.48
Placement of scaffolding in clean areas, $/square foot	15.82
Placement of scaffolding in contaminated areas, $/square foot	23.72
Landscaping with topsoil, $/acre	20,600.08
Cost of CPC B-88 LSA box & preparation for use	2,183.02

APPENDIX B

UNIT COST FACTOR LISTING
(Power Block Structures Only)

Unit Cost Factor	Cost/Unit ($)
Cost of CPC B-25 LSA box & preparation for use	1,861.15
Cost of CPC B-12V 12 gauge LSA box & preparation for use	1,680.84
Cost of CPC B-144 LSA box & preparation for use	11,087.11
Cost of LSA drum & preparation for use	313.35
Cost of cask liner for CNSI 8 120A cask (resins)	14,279.62
Cost of cask liner for CNSI 8 120A cask (filters)	10,083.08
Decontamination of surfaces with vacuuming, $/square foot	0.69

APPENDIX C

DETAILED COST ESTIMATES

DECON

Page

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1a - Shutdown through Transition																					
Period 1a Direct Decommissioning Activities																					
1a.1.1	Prepare preliminary decommissioning cost	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
1a.1.2	Notification of Cessation of Operations									a											
1a.1.3	Remove fuel & source material									n/a											
1a.1.4	Notification of Permanent Defueling									a											
1a.1.5	Deactivate plant systems & process waste									a											
1a.1.6	Prepare and submit PSDAR	-	-	-	-	-	-	302	45	347	347	-	-	-	-	-	-	-	-	-	2,000
1a.1.7	Review plant dwgs & specs.	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
1a.1.8	Perform detailed rad survey									a											
1a.1.9	Estimate by-product inventory	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1a.1.10	End product description	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1a.1.11	Detailed by-product inventory	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
1a.1.12	Define major work sequence	-	-	-	-	-	-	1,131	170	1,300	1,300	-	-	-	-	-	-	-	-	-	7,500
1a.1.13	Perform SER and EA	-	-	-	-	-	-	467	70	538	538	-	-	-	-	-	-	-	-	-	3,100
1a.1.14	Prepare/submit Defueled Technical Specifications	-	-	-	-	-	-	1,131	170	1,300	1,300	-	-	-	-	-	-	-	-	-	7,500
1a.1.15	Perform Site-Specific Cost Study	-	-	-	-	-	-	754	113	867	867	-	-	-	-	-	-	-	-	-	5,000
1a.1.16	Prepare/submit Irradiated Fuel Management Plan	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
Activity Specifications																					
1a.1.17.1	Plant & temporary facilities	-	-	-	-	-	-	742	111	853	768	-	85	-	-	-	-	-	-	-	4,920
1a.1.17.2	Plant systems	-	-	-	-	-	-	628	94	722	650	-	72	-	-	-	-	-	-	-	4,167
1a.1.17.3	NSSS Decontamination Flush	-	-	-	-	-	-	75	11	87	87	-	-	-	-	-	-	-	-	-	500
1a.1.17.4	Reactor internals	-	-	-	-	-	-	1,071	161	1,231	1,231	-	-	-	-	-	-	-	-	-	7,100
1a.1.17.5	Reactor vessel	-	-	-	-	-	-	980	147	1,127	1,127	-	-	-	-	-	-	-	-	-	6,500
1a.1.17.6	Biological shield	-	-	-	-	-	-	75	11	87	87	-	-	-	-	-	-	-	-	-	500
1a.1.17.7	Steam generators	-	-	-	-	-	-	470	71	541	541	-	-	-	-	-	-	-	-	-	3,120
1a.1.17.8	Reinforced concrete	-	-	-	-	-	-	241	36	277	139	-	139	-	-	-	-	-	-	-	1,600
1a.1.17.9	Main Turbine	-	-	-	-	-	-	60	9	69	-	-	69	-	-	-	-	-	-	-	400
1a.1.17.10	Main Condensers	-	-	-	-	-	-	60	9	69	-	-	69	-	-	-	-	-	-	-	400
1a.1.17.11	Plant structures & buildings	-	-	-	-	-	-	470	71	541	270	-	270	-	-	-	-	-	-	-	3,120
1a.1.17.12	Waste management	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
1a.1.17.13	Facility & site closeout	-	-	-	-	-	-	136	20	156	78	-	78	-	-	-	-	-	-	-	900
1a.1.17	Total	-	-	-	-	-	-	5,704	856	6,559	5,776	-	784	-	-	-	-	-	-	-	37,827
Planning & Site Preparations																					
1a.1.18	Prepare dismantling sequence	-	-	-	-	-	-	362	54	416	416	-	-	-	-	-	-	-	-	-	2,400
1a.1.19	Plant prep. & temp. svces	-	-	-	-	-	-	4,200	630	4,830	4.830	-	-	-	-	-	-	-	-	-	-
1a.1.20	Design water clean-up system	-	-	-	-	-	-	211	32	243	243	-	-	-	-	-	-	-	-	-	1,400
1a.1.21	Rigging/Cont. Cntrl Envlps/tooling/etc.	-	-	-	-	-	-	2,900	435	3,335	3.335	-	-	-	-	-	-	-	-	-	-
1a.1.22	Procure casks/liners & containers	-	-	-	-	-	-	185	28	213	213	-	-	-	-	-	-	-	-	-	1,230
1a.1	Subtotal Period 1a Activity Costs	-	-	-	-	-	-	18,884	2,833	21,717	20,934	-	784	-	-	-	-	-	-	-	78,157
Period 1a Collateral Costs																					
1a.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	1,991	299	2,289	-	2,289	-	-	-	-	-	-	-	-	-
1a.3	Subtotal Period 1a Collateral Costs	-	-	-	-	-	-	1,991	299	2,289	-	2,289	-	-	-	-	-	-	-	-	-
Period 1a Period-Dependent Costs																					
1a.4.1	Insurance	-	-	-	-	-	-	2,446	245	2,691	2.691	-	-	-	-	-	-	-	-	-	-
1a.4.2	Property taxes	-	-	-	-	-	-	5,300	530	5,830	5.830	-	-	-	-	-	-	-	-	-	-
1a.4.3	Health physics supplies	-	962	-	-	-	-	-	240	1,202	1.202	-	-	-	-	-	-	-	-	-	-
1a.4.4	Heavy equipment rental	-	899	-	-	-	-	-	135	1,033	1,033	-	-	-	-	-	-	-	-	-	-
1a.4.5	Disposal of DAW generated	-	-	13	6	-	13	-	5	37	37	-	-	-	610	-	-	-	12,190	20	-
1a.4.6	Plant energy budget	-	-	-	-	-	-	2,419	363	2,782	2,782	-	-	-	-	-	-	-	-	-	-
1a.4.7	NRC Fees	-	-	-	-	-	-	1,464	146	1,611	1,611	-	-	-	-	-	-	-	-	-	-
1a.4.8	Emergency Planning Fees	-	-	-	-	-	-	499	50	549	-	549	-	-	-	-	-	-	-	-	-
1a.4.9	Spent Fuel Pool O&M	-	-	-	-	-	-	514	77	591	-	591	-	-	-	-	-	-	-	-	-
1a.4.10	ISFSI Operating Costs	-	-	-	-	-	-	66	10	76	-	76	-	-	-	-	-	-	-	-	-
1a.4.11	Security Staff Cost	-	-	-	-	-	-	5,930	890	6,820	6.820	-	-	-	-	-	-	-	-	-	133,116
1a.4.12	Utility Staff Cost	-	-	-	-	-	-	34,338	5,151	39,489	39.489	-	-	-	-	-	-	-	-	-	422,240
1a.4	Subtotal Period 1a Period-Dependent Costs	-	1,861	13	6	-	13	52,977	7,842	62,712	61.495	1,217	-	-	610	-	-	-	12.190	20	555,356
1a.0	TOTAL PERIOD 1a COST	-	1,861	13	6	-	13	73,853	10,973	86,718	82,428	3,506	784	-	610	-	-	-	12,190	20	633,513

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1b - Decommissioning Preparations																					
Period 1b Direct Decommissioning Activities																					
Detailed Work Procedures																					
1b.1.1.1	Plant systems	-	-	-	-	-	-	714	107	821	739	-	82	-	-	-	-	-	-	-	4,733
1b.1.1.2	NSSS Decontamination Flush	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1b.1.1.3	Reactor internals	-	-	-	-	-	-	377	57	433	433	-	-	-	-	-	-	-	-	-	2,500
1b.1.1.4	Remaining buildings	-	-	-	-	-	-	204	31	234	59	-	176	-	-	-	-	-	-	-	1,350
1b.1.1.5	CRD cooling assembly	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1b.1.1.6	CRD housings & ICI tubes	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1b.1.1.7	Incore instrumentation	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1b.1.1.8	Reactor vessel	-	-	-	-	-	-	547	82	629	629	-	-	-	-	-	-	-	-	-	3,630
1b.1.1.9	Facility closeout	-	-	-	-	-	-	181	27	208	104	-	104	-	-	-	-	-	-	-	1,200
1b.1.1.10	Missile shields	-	-	-	-	-	-	68	10	78	78	-	-	-	-	-	-	-	-	-	450
1b.1.1.11	Biological shield	-	-	-	-	-	-	181	27	208	208	-	-	-	-	-	-	-	-	-	1,200
1b.1.1.12	Steam generators	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
1b.1.1.13	Reinforced concrete	-	-	-	-	-	-	151	23	173	87	-	87	-	-	-	-	-	-	-	1,000
1b.1.1.14	Main Turbine	-	-	-	-	-	-	235	35	270	-	-	270	-	-	-	-	-	-	-	1,560
1b.1.1.15	Main Condensers	-	-	-	-	-	-	235	35	270	-	-	270	-	-	-	-	-	-	-	1,560
1b.1.1.16	Auxiliary building	-	-	-	-	-	-	412	62	473	426	-	47	-	-	-	-	-	-	-	2,730
1b.1.1.17	Reactor building	-	-	-	-	-	-	412	62	473	426	-	47	-	-	-	-	-	-	-	2,730
1b.1.1	Total	-	-	-	-	-	-	5,012	752	5,764	4,680	-	1,084	-	-	-	-	-	-	-	33,243
1b.1.2	Decon primary loop	1,105	-	-	-	-	-	-	553	1,658	1,658	-	-	-	-	-	-	-	-	1,067	-
1b.1	Subtotal Period 1b Activity Costs	1,105	-	-	-	-	-	5,012	1,204	7,422	6,338	-	1,084	-	-	-	-	-	-	1,067	33,243
Period 1b Additional Costs																					
1b.2.1	Spent Fuel Pool Isolation	-	-	-	-	-	-	15,055	2,258	17,313	17.313	-	-	-	-	-	-	-	-	-	-
1b.2.2	Site Characterization	-	-	-	-	-	-	5,823	1,747	7,570	7.570	-	-	-	-	-	-	-	-	32,260	10,796
1b.2	Subtotal Period 1b Additional Costs	-	-	-	-	-	-	20,878	4,005	24,883	24.883	-	-	-	-	-	-	-	-	32,260	10,796
Period 1b Collateral Costs																					
1b.3.1	Decon equipment	1,253	-	-	-	-	-	-	188	1,441	1,441	-	-	-	-	-	-	-	-	-	-
1b.3.2	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2,281	-	-	-	-	-	-	-	-	-	-
1b.3.3	Process decommissioning water waste	57	-	39	54	-	43	-	51	244	244	-	-	-	326	-	-	-	19,555	64	-
1b.3.4	Process decommissioning chemical flush waste	3	-	99	261	-	963	-	291	1,617	1,617	-	-	-	-	864	-	-	92,070	162	-
1b.3.5	Small tool allowance	-	2	-	-	-	-	-	0	3	3	-	-	-	-	-	-	-	-	-	-
1b.3.6	Pipe cutting equipment	-	1,500	-	-	-	-	-	225	1,725	1.725	-	-	-	-	-	-	-	-	-	-
1b.3.7	Decon rig	2,558	-	-	-	-	-	-	384	2,941	2.941	-	-	-	-	-	-	-	-	-	-
1b.3.8	Spent Fuel Capital and Transfer	-	-	-	-	-	-	9,535	1,430	10,965	-	10,965	-	-	-	-	-	-	-	-	-
1b.3	Subtotal Period 1b Collateral Costs	3,870	1,502	137	316	-	1,006	11,518	2,867	21,217	10.252	10,965	-	-	326	864	-	-	111.626	225	-
Period 1b Period-Dependent Costs																					
1b.4.1	Decon supplies	44	-	-	-	-	-	-	11	56	56	-	-	-	-	-	-	-	-	-	-
1b.4.2	Insurance	-	-	-	-	-	-	1,220	122	1,342	1,342	-	-	-	-	-	-	-	-	-	-
1b.4.3	Property taxes	-	-	-	-	-	-	2,393	239	2,633	2,633	-	-	-	-	-	-	-	-	-	-
1b.4.4	Health physics supplies	-	554	-	-	-	-	-	139	693	693	-	-	-	-	-	-	-	-	-	-
1b.4.5	Heavy equipment rental	-	448	-	-	-	-	-	67	515	515	-	-	-	-	-	-	-	-	-	-
1b.4.6	Disposal of DAW generated	-	-	7	3	-	8	-	3	22	22	-	-	-	356	-	-	-	7.122	12	-
1b.4.7	Plant energy budget	-	-	-	-	-	-	2,412	362	2,774	2.774	-	-	-	-	-	-	-	-	-	-
1b.4.8	NRC Fees	-	-	-	-	-	-	449	45	494	494	-	-	-	-	-	-	-	-	-	-
1b.4.9	Emergency Planning Fees	-	-	-	-	-	-	249	25	274	-	274	-	-	-	-	-	-	-	-	-
1b.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	256	38	295	-	295	-	-	-	-	-	-	-	-	-
1b.4.11	ISFSI Operating Costs	-	-	-	-	-	-	33	5	38	-	38	-	-	-	-	-	-	-	-	-
1b.4.12	Security Staff Cost	-	-	-	-	-	-	2,957	444	3,401	3,401	-	-	-	-	-	-	-	-	-	66,376
1b.4.13	DOC Staff Cost	-	-	-	-	-	-	6,249	937	7,186	7,186	-	-	-	-	-	-	-	-	-	63,266
1b.4.14	Utility Staff Cost	-	-	-	-	-	-	17,214	2,582	19,796	19.796	-	-	-	-	-	-	-	-	-	211,579
1b.4	Subtotal Period 1b Period-Dependent Costs	44	1,002	7	3	-	8	33,433	5,019	39,517	38.911	607	-	-	356	-	-	-	7.122	12	341,221
1b.0	TOTAL PERIOD 1b COST	5,020	2,505	145	319	-	1,014	70,841	13,196	93,040	80.384	11,572	1,084	-	682	864	-	-	118.747	33,564	385,260
PERIOD 1 TOTALS		5,020	4,365	157	325	-	1,027	144,694	24,169	179,758	162,812	15,078	1,868	-	1,292	864	-	-	130,928	33,583	1,018,773

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 2a - Large Component Removal																					
Period 2a Direct Decommissioning Activities																					
Nuclear Steam Supply System Removal																					
2a.1.1.1	Reactor Coolant Piping	94	102	25	34	-	180	-	125	561	561	-	-	-	1,275	-	-	-	88,984	4,317	-
2a.1.1.2	Pressurizer Relief Tank	25	21	11	16	-	82	-	41	196	196	-	-	-	581	-	-	-	40,513	1,082	-
2a.1.1.3	Reactor Coolant Pumps & Motors	92	74	426	275	-	1,234	-	457	2,559	2,559	-	-	-	7,394	-	-	-	863,642	4,595	100
2a.1.1.4	Pressurizer	-	42	456	131	-	575	-	219	1,423	1,423	-	-	-	3,445	-	-	-	240,508	1,346	938
2a.1.1.5	Steam Generators	-	5,169	1,815	2,113	-	9,934	-	4,274	23,304	23,304	-	-	-	59,529	-	-	-	3,713,200	12,531	2,125
2a.1.1.6	Retired Steam Generator Units	-	-	644	2,058	-	9,934	-	2,857	15,493	15,493	-	-	-	59,529	-	-	-	3,527,500	104	1,500
2a.1.1.7	CRDMs/ICIs/Service Structure Removal	122	245	269	62	-	362	-	249	1,309	1,309	-	-	-	4,852	-	-	-	179,025	8,214	-
2a.1.1.8	Reactor Vessel Internals	50	6,182	16,898	781	-	4,908	391	11,594	40,805	40,805	-	-	-	4,289	963	337	-	348,455	31,507	1,419
2a.1.1.9	Reactor Vessel	91	8,005	3,221	812	-	1,782	391	8,007	22,309	22,309	-	-	-	13,584	-	-	-	973,221	31,507	1,419
2a.1.1	Totals	474	19,840	23,765	6,282	-	28,990	783	27,824	107,957	107,957	-	-	-	154,478	963	337	-	9,975,047	95,202	7,500
Removal of Major Equipment																					
2a.1.2	Main Turbine/Generator	-	315	1,001	618	-	5,870	-	1,739	9,543	9,543	-	-	-	45,743	-	-	-	2,905,964	7,988	-
2a.1.3	Main Condensers	-	492	1,358	838	-	7,964	-	2,375	13,027	13,027	-	-	-	62,059	-	-	-	3,942,431	12,750	-
Cascading Costs from Clean Building Demolition																					
2a.1.4.1	Reactor	-	582	-	-	-	-	-	87	669	669	-	-	-	-	-	-	-	-	5,559	-
2a.1.4.2	Safeguard	-	68	-	-	-	-	-	10	79	79	-	-	-	-	-	-	-	-	558	-
2a.1.4	Totals	-	650	-	-	-	-	-	98	748	748	-	-	-	-	-	-	-	-	6,117	-
Disposal of Plant Systems																					
2a.1.5.1	Auxiliary Feedwater (insulated)	-	620	165	90	-	851	-	398	2,123	2,123	-	-	-	6,577	-	-	-	421,242	13,852	-
2a.1.5.2	Auxiliary Steam	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	395	-
2a.1.5.3	Boron Recycle (insulated)	1	6	1	0	-	3	-	3	13	13	-	-	-	21	-	-	-	1,370	131	-
2a.1.5.4	Boron Recycle (uninsulated)	20	34	4	2	-	17	-	24	101	101	-	-	-	133	-	-	-	8,660	1,169	-
2a.1.5.5	Boron Thermal Regeneration (insulated)	49	89	11	5	-	47	-	60	261	261	-	-	-	359	-	-	-	23,309	2,955	-
2a.1.5.6	Boron Thermal Regeneration (uninsulated)	130	224	30	15	-	139	-	161	699	699	-	-	-	1,061	-	-	-	68,730	7,223	-
2a.1.5.7	Chemical & Volume Control (insulated)	103	194	22	10	-	95	-	127	550	550	-	-	-	722	-	-	-	46,896	6,310	-
2a.1.5.8	Chemical & Volume Control (uninsulated)	217	393	53	26	-	244	-	277	1,210	1,210	-	-	-	1,867	-	-	-	120,837	12,735	-
2a.1.5.9	Chemical Feed	-	7	-	-	-	-	-	1	9	-	-	9	-	-	-	-	-	-	218	-
2a.1.5.10	Chemical Feed - RCA	-	9	1	0	-	2	-	3	15	15	-	-	-	15	-	-	-	971	253	-
2a.1.5.11	Chilled Water - Safety	-	5	-	-	-	-	-	1	6	-	-	6	-	-	-	-	-	-	139	-
2a.1.5.12	Chilled Water - Safety - RCA	-	95	14	6	-	56	-	40	211	211	-	-	-	427	-	-	-	27,756	2,002	-
2a.1.5.13	Circulating Water	-	193	-	-	-	-	-	29	222	-	-	222	-	-	-	-	-	-	5,720	-
2a.1.5.14	Component Cooling Water	-	25	-	-	-	-	-	4	29	-	-	29	-	-	-	-	-	-	709	-
2a.1.5.15	Component Cooling Water - RCA	-	1,015	378	229	-	2,176	-	870	4,669	4,669	-	-	-	16,878	-	-	-	1,077,151	23,199	-
2a.1.5.16	Condensate (insulated)	-	139	-	-	-	-	-	21	160	-	-	160	-	-	-	-	-	-	4,155	-
2a.1.5.17	Condensate (uninsulated)	-	112	-	-	-	-	-	17	129	-	-	129	-	-	-	-	-	-	3,200	-
2a.1.5.18	Condensate Polishing	-	105	-	-	-	-	-	16	121	-	-	121	-	-	-	-	-	-	3,095	-
2a.1.5.19	Condenser Vacuum & Water Box Priming	-	70	-	-	-	-	-	11	81	-	-	81	-	-	-	-	-	-	2,054	-
2a.1.5.20	Extraction Steam	-	78	-	-	-	-	-	12	89	-	-	89	-	-	-	-	-	-	2,335	-
2a.1.5.21	Feedwater	-	240	-	-	-	-	-	36	275	-	-	275	-	-	-	-	-	-	7,102	-
2a.1.5.22	Feedwater - RCA	-	62	27	16	-	157	-	60	321	321	-	-	-	1,217	-	-	-	77,593	1,449	-
2a.1.5.23	Generator & Exciter	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
2a.1.5.24	Generator Gas Cooling	-	9	-	-	-	-	-	1	10	-	-	10	-	-	-	-	-	-	247	-
2a.1.5.25	Generator Primary Water	-	69	-	-	-	-	-	10	79	-	-	79	-	-	-	-	-	-	2,003	-
2a.1.5.26	Generator Seal Oil	-	8	-	-	-	-	-	1	10	-	-	10	-	-	-	-	-	-	232	-
2a.1.5.27	Hydrogen Gas	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	53	-
2a.1.5.28	Main Steam Reheat & Steam Dump	-	39	-	-	-	-	-	6	45	-	-	45	-	-	-	-	-	-	1,105	-
2a.1.5.29	Main Steam Reheat & Steam Dump - RCA	-	472	144	78	-	744	-	330	1,769	1,769	-	-	-	5,739	-	-	-	368,270	10,634	-
2a.1.5.30	Main Turbine Lube Oil	-	48	-	-	-	-	-	7	55	-	-	55	-	-	-	-	-	-	1,390	-
2a.1.5.31	Main Turbine Oil Purification	-	96	-	-	-	-	-	14	110	-	-	110	-	-	-	-	-	-	2,778	-
2a.1.5.32	Nitrogen Gas	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	50	-
2a.1.5.33	Post Accident Sampling	-	8	0	0	-	2	-	3	14	14	-	-	-	15	-	-	-	951	222	-
2a.1.5.34	Process Sampling (uninsulated)	-	11	3	2	-	23	-	9	48	48	-	-	-	177	-	-	-	11,236	289	-
2a.1.5.35	Reactor Coolant	65	123	15	7	-	70	-	84	364	364	-	-	-	535	-	-	-	34,637	3,898	-
2a.1.5.36	Residual Heat Removal	473	253	149	81	-	765	-	518	2,240	2,240	-	-	-	5,891	-	-	-	378,887	7,447	-
2a.1.5.37	Safety Injection (insulated)	-	157	35	20	-	187	-	92	491	491	-	-	-	1,442	-	-	-	92,591	3,714	-
2a.1.5.38	Safety Injection (uninsulated)	73	184	-	-	-	-	-	64	321	321	-	-	-	-	-	-	-	-	6,474	-
2a.1.5.39	Secondary Plant Sampling	-	32	-	-	-	-	-	5	37	-	-	37	-	-	-	-	-	-	1,040	-
2a.1.5.40	Steam Generator Blowdown & Cleanup	-	119	-	-	-	-	-	18	137	-	-	137	-	-	-	-	-	-	3,483	-
2a.1.5.41	Turbine Electrohydr Cntrl (insulated)	-	22	-	-	-	-	-	3	26	-	-	26	-	-	-	-	-	-	663	-
2a.1.5.42	Turbine Electrohydr Cntrl (uninsulated)	-	15	-	-	-	-	-	2	17	-	-	17	-	-	-	-	-	-	416	-
2a.1.5.43	Turbine Gland Steam & Drains	-	46	-	-	-	-	-	7	53	-	-	53	-	-	-	-	-	-	1,357	-

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems (continued)																					
2a.1.5.44	Turbine Heater Drains	-	421	-	-	-	-	-	63	485	-	-	485	-	-	-	-	-	-	12,600	-
2a.1.5.45	Turbine Plant Cooling (insulated)	-	18	-	-	-	-	-	3	21	-	-	21	-	-	-	-	-	-	533	-
2a.1.5.46	Turbine Plant Cooling (uninsulated)	-	152	-	-	-	-	-	23	175	-	-	175	-	-	-	-	-	-	4,495	-
2a.1.5.47	Turbines (High - Low) (insulated)	-	37	-	-	-	-	-	5	42	-	-	42	-	-	-	-	-	-	1,105	-
2a.1.5.48	Turbines (High - Low) (uninsulated)	-	57	-	-	-	-	-	8	65	-	-	65	-	-	-	-	-	-	1,703	-
2a.1.5.49	Vent Chilled Water - Non Safety	-	17	-	-	-	-	-	3	20	-	-	20	-	-	-	-	-	-	500	-
2a.1.5.50	Vent Chilled Water - Non Safety- RCA	-	141	25	11	-	109	-	67	353	353	-	-	-	833	-	-	-	53.965	2,994	-
2a.1.5.51	Westinghouse Process Instruments	-	4	0	0	-	2	-	1	7	7	-	-	-	13	-	-	-	851	95	-
2a.1.5	Totals	1,131	6,291	1,076	599	-	5,688	-	3,520	18,305	15.779	-	2,526	-	43.924	-	-	-	2,815.905	171,837	-
2a.1.6	Scaffolding in support of decommissioning	-	546	7	4	-	39	-	148	744	744	-	-	-	307	-	-	-	19,534	17,252	-
2a.1	Subtotal Period 2a Activity Costs	1,605	28,135	27,207	8,341	-	48,551	783	35,704	150,326	147,799	-	2,526	-	306,512	963	337	-	19,658,880	311,145	7,500
Period 2a Additional Costs																					
2a.2.1	Remedial Action Surveys	-	-	-	-	-	-	1,922	576	2,498	2.498	-	-	-	-	-	-	-	-	35,080	-
2a.2.2	Asbestos Abatement	-	-	-	-	-	-	1,000	150	1,150	-	-	1,150	-	-	-	-	-	-	-	-
2a.2.3	Mixed Waste Disposal	-	-	-	-	-	-	50	8	58	58	-	-	-	-	-	-	-	-	-	-
2a.2.4	Retired HP and LP Turbine Rotors	-	111	372	446	-	526	-	263	1,719	1.719	-	-	-	3.500	-	-	-	1,032.150	3,893	1,000
2a.2.5	Retired Reactor Closure Head	-	-	559	769	-	445	-	283	2,057	2.057	-	-	-	2.954	-	-	-	510.800	1,540	2,000
2a.2	Subtotal Period 2a Additional Costs	-	111	931	1,216	-	972	2,972	1,280	7,481	6,331	-	1,150	-	6,455	-	-	-	1,542,950	40,513	3,000
Period 2a Collateral Costs																					
2a.3.1	Process decommissioning water waste	114	-	79	111	-	87	-	103	494	494	-	-	-	663	-	-	-	39,807	129	-
2a.3.2	Process decommissioning chemical flush waste	4	-	129	341	-	263	-	132	869	869	-	-	-	1,128	-	-	-	120,223	211	-
2a.3.3	Small tool allowance	-	260	-	-	-	-	-	39	299	269	-	30	-	-	-	-	-	-	-	-
2a.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	32,219	4,833	37,051	-	37,051	-	-	-	-	-	-	-	-	-
2a.3.5	Severance	-	-	-	-	-	-	3,370	506	3,876	3.876	-	-	-	-	-	-	-	-	-	-
2a.3	Subtotal Period 2a Collateral Costs	118	260	208	452	-	350	35,589	5,612	42,589	5.508	37,051	30	-	1.792	-	-	-	160.030	341	-
Period 2a Period-Dependent Costs																					
2a.4.1	Decon supplies	150	-	-	-	-	-	-	38	188	188	-	-	-	-	-	-	-	-	-	-
2a.4.2	Insurance	-	-	-	-	-	-	877	88	964	964	-	-	-	-	-	-	-	-	-	-
2a.4.3	Property taxes	-	-	-	-	-	-	6,836	684	7,520	7,520	-	-	-	-	-	-	-	-	-	-
2a.4.4	Health physics supplies	-	4,794	-	-	-	-	-	1,199	5,993	5,993	-	-	-	-	-	-	-	-	-	-
2a.4.5	Heavy equipment rental	-	4,741	-	-	-	-	-	711	5,453	5,453	-	-	-	-	-	-	-	-	-	-
2a.4.6	Disposal of DAW generated	-	-	102	47	-	108	-	44	300	300	-	-	-	4.936	-	-	-	98.716	161	-
2a.4.7	Plant energy budget	-	-	-	-	-	-	3,878	582	4,460	4.460	-	-	-	-	-	-	-	-	-	-
2a.4.8	NRC Fees	-	-	-	-	-	-	1,389	139	1,528	1.528	-	-	-	-	-	-	-	-	-	-
2a.4.9	Emergency Planning Fees	-	-	-	-	-	-	290	29	319	-	319	-	-	-	-	-	-	-	-	-
2a.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	868	130	998	-	998	-	-	-	-	-	-	-	-	-
2a.4.11	ISFSI Operating Costs	-	-	-	-	-	-	112	17	129	-	129	-	-	-	-	-	-	-	-	-
2a.4.12	Security Staff Cost	-	-	-	-	-	-	10,008	1,501	11,510	11,510	-	-	-	-	-	-	-	-	-	224,657
2a.4.13	DOC Staff Cost	-	-	-	-	-	-	26,150	3,922	30,072	30,072	-	-	-	-	-	-	-	-	-	266,787
2a.4.14	Utility Staff Cost	-	-	-	-	-	-	41,507	6,226	47,733	47,733	-	-	-	-	-	-	-	-	-	494,635
2a.4	Subtotal Period 2a Period-Dependent Costs	150	9,536	102	47	-	108	91,915	15,209	117,167	115,721	1,447	-	-	4,936	-	-	-	98,716	161	986,079
2a.0	TOTAL PERIOD 2a COST	1,873	38,042	28,448	10.055	-	49,981	131,259	57,905	317,563	275.359	38,498	3,706	-	319.694	963	337	-	21,460.580	352,160	996,579
PERIOD 2b - Site Decontamination																					
Period 2b Direct Decommissioning Activities																					
Disposal of Plant Systems																					
2b.1.1.1	Auxiliary Building HVAC (insulated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2b.1.1.2	Auxiliary Building HVAC (uninsulated)	-	9	1	1	-	8	-	4	23	23	-	-	-	63	-	-	-	4,014	218	-
2b.1.1.3	Batt Rms & Misc Uncontrolled Acc. HVAC	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	53	-
2b.1.1.4	Compressed Air - Instr. Air (insulated)	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	58	-
2b.1.1.5	Compressed Air - Instrument Air - RCA (i	-	11	2	1	-	7	-	5	25	25	-	-	-	51	-	-	-	3.348	233	-
2b.1.1.6	Compressed Air - Instrument Air - RCA (u	-	128	17	7	-	67	-	52	271	271	-	-	-	513	-	-	-	33.385	2,823	-
2b.1.1.7	Compressed Air - Service Air	-	29	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	883	-
2b.1.1.8	Compressed Air - Service Air - RCA	-	148	21	9	-	86	-	62	326	326	-	-	-	658	-	-	-	42,761	3,229	-
2b.1.1.9	Compressed Air -Instr. Air (uninsulated)	-	29	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	883	-
2b.1.1.10	Containment Hatches	-	8	1	1	-	5	-	4	19	19	-	-	-	40	-	-	-	2,568	191	-
2b.1.1.11	Containment Hydrogen Purge HVAC	-	42	11	6	-	56	-	27	142	142	-	-	-	427	-	-	-	27,475	1,057	-
2b.1.1.12	Containment Spray	-	405	330	180	-	1,710	-	589	3,214	3,214	-	-	-	13,197	-	-	-	846,674	9,916	-
2b.1.1.13	Containmnt Ventilation HVAC (insulated)	-	236	122	75	-	710	-	260	1,403	1.403	-	-	-	5.503	-	-	-	351.564	5,521	-
2b.1.1.14	Containmnt Ventilation HVAC(uninsulated)	-	34	10	7	-	65	-	27	142	142	-	-	-	504	-	-	-	31.997	804	-

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems (continued)																					
2b.1.1.15	Control Room HVAC	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	62	-
2b.1.1.16	Demineralized & RCS Makeup Water	-	33	-	-	-	-	-	5	38	-	-	38	-	-	-	-	-	-	911	-
2b.1.1.17	Demineralized & RCS Makeup Water - RCA	-	102	16	7	-	65	-	44	234	234	-	-	-	491	-	-	-	31,957	2,095	-
2b.1.1.18	Diesel Gen & Auxiliaries (insulated)	-	6	-	-	-	-	-	1	7	-	-	7	-	-	-	-	-	-	182	-
2b.1.1.19	Diesel Gen & Auxiliaries (uninsulated)	-	78	-	-	-	-	-	12	90	-	-	90	-	-	-	-	-	-	2,239	-
2b.1.1.20	Diesel Generator Fuel Oil	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	364	-
2b.1.1.21	Diesel Room HVAC	-	4	-	-	-	-	-	1	5	-	-	5	-	-	-	-	-	-	117	-
2b.1.1.22	Electrical - Clean	-	1,754	-	-	-	-	-	263	2,017	-	-	2,017	-	-	-	-	-	-	49,247	-
2b.1.1.23	Electrical - Contaminated	-	162	15	10	-	96	-	67	350	350	-	-	-	745	-	-	-	47,359	3,491	-
2b.1.1.24	Electrical - RCA	-	1,056	137	92	-	870	-	509	2,664	2,664	-	-	-	6,779	-	-	-	430,624	21,014	-
2b.1.1.25	Fire Protection	-	89	-	-	-	-	-	13	103	-	-	103	-	-	-	-	-	-	2,628	-
2b.1.1.26	Fire Protection - RCA	-	214	42	20	-	187	-	107	570	570	-	-	-	1,424	-	-	-	92,756	4,585	-
2b.1.1.27	Leak Rate Test	-	11	3	1	-	14	-	7	35	35	-	-	-	104	-	-	-	6,718	266	-
2b.1.1.28	Potable Water	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
2b.1.1.29	Radiation Monitoring	-	1	-	-	-	-	-	0	1	-	-	1	-	-	-	-	-	-	33	-
2b.1.1.30	Safeguards Building HVAC (insulated)	-	18	3	2	-	22	-	11	57	57	-	-	-	171	-	-	-	11,048	360	-
2b.1.1.31	Safeguards Building HVAC (uninsulated)	-	50	8	6	-	52	-	27	144	144	-	-	-	409	-	-	-	25,970	1,164	-
2b.1.1.32	Service Water	-	42	-	-	-	-	-	6	48	-	-	48	-	-	-	-	-	-	1,240	-
2b.1.1.33	Service Water - RCA	-	202	75	48	-	461	-	180	967	967	-	-	-	3,578	-	-	-	228,038	4,988	-
2b.1.1.34	Turbine Building HVAC (insulated)	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	92	-
2b.1.1.35	Turbine Building HVAC (uninsulated)	-	24	-	-	-	-	-	4	28	-	-	28	-	-	-	-	-	-	722	-
2b.1.1.36	Vents & Drains	-	17	-	-	-	-	-	3	20	-	-	20	-	-	-	-	-	-	495	-
2b.1.1.37	Vents & Drains - RCA	97	170	21	10	-	94	-	118	510	510	-	-	-	714	-	-	-	46,313	5,477	-
2b.1.1.38	Waste Management (uninsulated)	-	3	-	-	-	-	-	0	4	-	-	4	-	-	-	-	-	-	91	-
2b.1.1.39	Waste Processing Liquid (insulated)	75	146	16	7	-	67	-	93	404	404	-	-	-	508	-	-	-	33,022	4,811	-
2b.1.1.40	Waste Processing Liquid (uninsulated)	38	70	9	4	-	38	-	48	206	206	-	-	-	291	-	-	-	18,868	2,316	-
2b.1.1.41	Waste Processing Solid	-	2	0	0	-	2	-	1	5	5	-	-	-	14	-	-	-	860	53	-
2b.1.1	Totals	210	5,361	857	493	-	4,681	-	2,562	14,164	11,711	-	2,453	-	36,196	-	-	-	2,317,317	134,950	-
2b.1.2	Scaffolding in support of decommissioning	-	683	8	5	-	49	-	185	931	931	-	-	-	384	-	-	-	24,418	21,565	-
Decontamination of Site Buildings																					
2b.1.3.1	Reactor	1,283	839	113	203	-	1,531	-	1,276	5,245	5,245	-	-	-	18,945	-	-	-	862,451	49,418	-
2b.1.3.2	Safeguard	164	83	17	24	-	164	-	149	601	601	-	-	-	2,008	-	-	-	98,799	5,673	-
2b.1.3	Totals	1,447	922	130	227	-	1,695	-	1,425	5,846	5,846	-	-	-	20,954	-	-	-	961,250	55,091	-
2b.1.4	Prepare/submit License Termination Plan	-	-	-	-	-	-	618	93	710	710	-	-	-	-	-	-	-	-	-	4,096
2b.1.5	Receive NRC approval of termination plan									a											
2b.1	Subtotal Period 2b Activity Costs	1,657	6,967	996	725	-	6,425	618	4,264	21,651	19,198	-	2,453	-	57,534	-	-	-	3,302,985	211,606	4,096
Period 2b Additional Costs																					
2b.2.1	Remedial Action Surveys	-	-	-	-	-	-	2,633	790	3,423	3,423	-	-	-	-	-	-	-	-	48,064	-
2b.2	Subtotal Period 2b Additional Costs	-	-	-	-	-	-	2,633	790	3,423	3,423	-	-	-	-	-	-	-	-	48,064	-
Period 2b Collateral Costs																					
2b.3.1	Process decommissioning water waste	91	-	65	91	-	72	-	84	404	404	-	-	-	547	-	-	-	32,833	107	-
2b.3.2	Process decommissioning chemical flush waste	0	-	13	34	-	26	-	13	87	87	-	-	-	113	-	-	-	12,042	21	-
2b.3.3	Small tool allowance	-	129	-	-	-	-	-	19	149	149	-	-	-	-	-	-	-	-	-	-
2b.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	51,864	7,780	59,644	-	59,644	-	-	-	-	-	-	-	-	-
2b.3.5	Severance	-	-	-	-	-	-	2,158	324	2,482	2,482	-	-	-	-	-	-	-	-	-	-
2b.3	Subtotal Period 2b Collateral Costs	92	129	78	126	-	98	54,023	8,220	62,766	3,122	59,644	-	-	660	-	-	-	44,875	128	-
Period 2b Period-Dependent Costs																					
2b.4.1	Decon supplies	1,240	-	-	-	-	-	-	310	1,550	1,550	-	-	-	-	-	-	-	-	-	-
2b.4.2	Insurance	-	-	-	-	-	-	1,201	120	1,321	1,321	-	-	-	-	-	-	-	-	-	-
2b.4.3	Property taxes	-	-	-	-	-	-	1,041	104	1,145	1,145	-	-	-	-	-	-	-	-	-	-
2b.4.4	Health physics supplies	-	4,368	-	-	-	-	-	1,092	5,460	5,460	-	-	-	-	-	-	-	-	-	-
2b.4.5	Heavy equipment rental	-	6,658	-	-	-	-	-	999	7,657	7,657	-	-	-	-	-	-	-	-	-	-
2b.4.6	Disposal of DAW generated	-	-	68	31	-	71	-	29	199	199	-	-	-	3,278	-	-	-	65,558	107	-
2b.4.7	Plant energy budget	-	-	-	-	-	-	4,195	629	4,825	4,825	-	-	-	-	-	-	-	-	-	-
2b.4.8	NRC Fees	-	-	-	-	-	-	1,903	190	2,093	2,093	-	-	-	-	-	-	-	-	-	-
2b.4.9	Emergency Planning Fees	-	-	-	-	-	-	398	40	438	-	438	-	-	-	-	-	-	-	-	-
2b.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	1,189	178	1,368	-	1,368	-	-	-	-	-	-	-	-	-
2b.4.11	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	600	90	689	689	-	-	-	-	-	-	-	-	-	-
2b.4.12	ISFSI Operating Costs	-	-	-	-	-	-	154	23	177	-	177	-	-	-	-	-	-	-	-	-
2b.4.13	Security Staff Cost	-	-	-	-	-	-	13,713	2,057	15,770	15,770	-	-	-	-	-	-	-	-	-	307,809
2b.4.14	DOC Staff Cost	-	-	-	-	-	-	24,699	3,705	28,404	28,404	-	-	-	-	-	-	-	-	-	259,721

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 2b Period-Dependent Costs (continued)																					
2b.4.15	Utility Staff Cost	-	-	-	-	-	-	40,288	6,043	46,331	46,331	-	-	-	-	-	-	-	-	-	483,369
2b.4	Subtotal Period 2b Period-Dependent Costs	1,240	11,026	68	31	-	71	89,380	15,610	117,426	115,444	1,982	-	-	3,278	-	-	-	65,558	107	1,050,899
2b.0	TOTAL PERIOD 2b COST	2,989	18,122	1,142	881	-	6,595	146,653	28,884	205,265	141,187	61,626	2,453	-	61,472	-	-	-	3,413,418	259,904	1,054,995
PERIOD 2c - Spent fuel delay prior to SFP decon																					
Period 2c Collateral Costs																					
2c.3.1	Severance	-	-	-	-	-	-	4,968	745	5,713	5.713	-	-	-	-	-	-	-	-	-	-
2c.3	Subtotal Period 2c Collateral Costs	-	-	-	-	-	-	4,968	745	5,713	5.713	-	-	-	-	-	-	-	-	-	-
Period 2c Period-Dependent Costs																					
2c.4.1	Insurance	-	-	-	-	-	-	1,551	155	1,706	1,706	-	-	-	-	-	-	-	-	-	-
2c.4.2	Property taxes	-	-	-	-	-	-	1,343	134	1,477	1,477	-	-	-	-	-	-	-	-	-	-
2c.4.3	Health physics supplies	-	1,006	-	-	-	-	-	251	1,257	1,257	-	-	-	-	-	-	-	-	-	-
2c.4.4	Disposal of DAW generated	-	-	23	11	-	24	-	10	68	68	-	-	-	1.117	-	-	-	22.340	36	-
2c.4.5	Plant energy budget	-	-	-	-	-	-	5,418	813	6,231	6.231	-	-	-	-	-	-	-	-	-	-
2c.4.6	NRC Fees	-	-	-	-	-	-	2,329	233	2,562	2.562	-	-	-	-	-	-	-	-	-	-
2c.4.7	Emergency Planning Fees	-	-	-	-	-	-	514	51	565	-	565	-	-	-	-	-	-	-	-	-
2c.4.8	Spent Fuel Pool O&M	-	-	-	-	-	-	1,536	230	1,766	-	1,766	-	-	-	-	-	-	-	-	-
2c.4.9	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	774	116	890	890	-	-	-	-	-	-	-	-	-	-
2c.4.10	ISFSI Operating Costs	-	-	-	-	-	-	199	30	228	-	228	-	-	-	-	-	-	-	-	-
2c.4.11	Security Staff Cost	-	-	-	-	-	-	17,709	2,656	20,366	20,366	-	-	-	-	-	-	-	-	-	397,526
2c.4.12	Utility Staff Cost	-	-	-	-	-	-	3,704	556	4,259	4,259	-	-	-	-	-	-	-	-	-	46,586
2c.4	Subtotal Period 2c Period-Dependent Costs	-	1,006	23	11	-	24	35,076	5,236	41,376	38,816	2,560	-	-	1,117	-	-	-	22,340	36	444,112
2c.0	TOTAL PERIOD 2c COST	-	1,006	23	11	-	24	40,044	5,981	47,089	44.529	2,560	-	-	1.117	-	-	-	22.340	36	444,112
PERIOD 2d - Decontamination Following Wet Fuel Storage																					
Period 2d Direct Decommissioning Activities																					
2d.1.1	Remove spent fuel racks	290	28	130	41	-	390	-	269	1,148	1,148	-	-	-	3,042	-	-	-	193,246	838	-
Disposal of Plant Systems																					
2d.1.2.1	Fuel Building HVAC (uninsulated)	-	7	1	1	-	5	-	3	17	17	-	-	-	42	-	-	-	2,679	170	-
2d.1.2.2	Fuel Handling	-	6	1	1	-	8	-	4	20	20	-	-	-	61	-	-	-	3,891	152	-
2d.1.2.3	Spent Fuel Pool Cooling & Cleanup	-	139	15	7	-	67	-	54	282	282	-	-	-	508	-	-	-	33.005	3,144	-
2d.1.2	Totals	-	152	17	8	-	80	-	61	319	319	-	-	-	611	-	-	-	39.575	3,465	-
2d.1.4	Scaffolding in support of decommissioning	-	137	2	1	-	10	-	37	186	186	-	-	-	77	-	-	-	4884	4,313	-
2d.1	Subtotal Period 2d Activity Costs	290	317	149	51	-	480	-	367	1,653	1,653	-	-	-	3,730	-	-	-	237,704	8,616	-
Period 2d Additional Costs																					
2d.2.1	License Termination Survey Planning	-	-	-	-	-	-	1,236	371	1,607	1,607	-	-	-	-	-	-	-	-	-	6,240
2d.2.2	Operational Tools & Equipment	-	-	11	43	-	218	-	62	333	333	-	-	-	5,850	-	-	-	146,250	16	-
2d.2.3	Excavation of Underground Services	-	1,794	-	-	-	-	757	562	3,113	3.113	-	-	-	-	-	-	-	-	11,945	-
2d.2.4	Remedial Action Surveys	-	-	-	-	-	-	90	27	118	118	-	-	-	-	-	-	-	-	1,651	-
2d.2	Subtotal Period 2d Additional Costs	-	1,794	11	43	-	218	2,083	1,022	5,171	5.171	-	-	-	5.850	-	-	-	146.250	13,613	6,240
Period 2d Collateral Costs																					
2d.3.1	Process decommissioning water waste	48	-	26	50	-	40	-	45	219	219	-	-	-	301	-	-	-	18,058	59	-
2d.3.2	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2d.3.3	Small tool allowance	-	18	-	-	-	-	-	3	21	21	-	-	-	-	-	-	-	-	-	-
2d.3.4	Decommissioning Equipment Disposition	-	-	116	71	-	679	-	192	1,058	1,058	-	-	-	5,290	-	-	-	336,079	147	-
2d.3	Subtotal Period 2d Collateral Costs	48	18	152	122	-	718	-	240	1,298	1,298	-	-	-	5,591	-	-	-	354,137	206	-
Period 2d Period-Dependent Costs																					
2d.4.1	Decon supplies	7	-	-	-	-	-	-	2	9	9	-	-	-	-	-	-	-	-	-	-
2d.4.2	Insurance	-	-	-	-	-	-	41	4	45	45	-	-	-	-	-	-	-	-	-	-
2d.4.3	Property taxes	-	-	-	-	-	-	36	4	39	39	-	-	-	-	-	-	-	-	-	-
2d.4.4	Health physics supplies	-	240	-	-	-	-	-	60	300	300	-	-	-	-	-	-	-	-	-	-
2d.4.5	Heavy equipment rental	-	229	-	-	-	-	-	34	263	263	-	-	-	-	-	-	-	-	-	-
2d.4.6	Disposal of DAW generated	-	-	8	3	-	8	-	3	22	22	-	-	-	366	-	-	-	7,311	12	-
2d.4.7	Plant energy budget	-	-	-	-	-	-	77	12	88	88	-	-	-	-	-	-	-	-	-	-
2d.4.8	NRC Fees	-	-	-	-	-	-	62	6	68	68	-	-	-	-	-	-	-	-	-	-
2d.4.9	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	41	6	47	47	-	-	-	-	-	-	-	-	-	-
2d.4.10	ISFSI Operating Costs	-	-	-	-	-	-	5	1	6	-	6	-	-	-	-	-	-	-	-	-

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
	Period 2d Period-Dependent Costs (continued)																				
2d.4.11	Security Staff Cost	-	-	-	-	-	-	155	23	178	64	114	-	-	-	-	-	-	-	-	3,470
2d.4.12	DOC Staff Cost	-	-	-	-	-	-	571	86	657	657	-	-	-	-	-	-	-	-	-	6,032
2d.4.13	Utility Staff Cost	-	-	-	-	-	-	799	120	918	875	43	-	-	-	-	-	-	-	-	9,998
2d.4	Subtotal Period 2d Period-Dependent Costs	7	469	8	3	-	8	1,787	361	2,643	2,479	164	-	-	366	-	-	-	7,311	12	19,501
2d.0	TOTAL PERIOD 2d COST	345	2,598	319	218	-	1,424	3,871	1,989	10,765	10.601	164	-	-	15.537	-	-	-	745.401	22,446	25,741
	PERIOD 2e - Delay before License Termination																				
	Period 2e Collateral Costs																				
2e.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	163	24	188	-	188	-	-	-	-	-	-	-	-	-
2e.3.2	Severance	-	-	-	-	-	-	347	52	399	399	-	-	-	-	-	-	-	-	-	-
2e.3	Subtotal Period 2e Collateral Costs	-	-	-	-	-	-	511	77	587	399	188	-	-	-	-	-	-	-	-	-
	Period 2e Period-Dependent Costs																				
2e.4.1	Insurance	-	-	-	-	-	-	387	39	426	426	-	-	-	-	-	-	-	-	-	-
2e.4.2	Property taxes	-	-	-	-	-	-	335	34	369	369	-	-	-	-	-	-	-	-	-	-
2e.4.3	Health physics supplies	-	129	-	-	-	-	-	32	162	162	-	-	-	-	-	-	-	-	-	-
2e.4.4	Disposal of DAW generated	-	-	2	1	-	2	-	1	5	5	-	-	-	74	-	-	-	1.486	2	-
2e.4.5	Plant energy budget	-	-	-	-	-	-	361	54	415	415	-	-	-	-	-	-	-	-	-	-
2e.4.6	NRC Fees	-	-	-	-	-	-	342	34	376	376	-	-	-	-	-	-	-	-	-	-
2e.4.7	ISFSI Operating Costs	-	-	-	-	-	-	50	7	57	-	57	-	-	-	-	-	-	-	-	-
2e.4.8	Security Staff Cost	-	-	-	-	-	-	1,454	218	1,672	599	1,074	-	-	-	-	-	-	-	-	32,550
2e.4.9	Utility Staff Cost	-	-	-	-	-	-	892	134	1,025	955	71	-	-	-	-	-	-	-	-	10,850
2e.4	Subtotal Period 2e Period-Dependent Costs	-	129	2	1	-	2	3,821	553	4,506	3,305	1,201	-	-	74	-	-	-	1,486	2	43,400
2e.0	TOTAL PERIOD 2e COST	-	129	2	1	-	2	4,331	629	5,094	3.704	1,389	-	-	74	-	-	-	1.486	2	43,400
	PERIOD 2f - License Termination																				
	Period 2f Direct Decommissioning Activities																				
2f.1.1	ORISE confirmatory survey	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
2f.1.2	Terminate license									8											
2f.1	Subtotal Period 2f Activity Costs	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
	Period 2f Additional Costs																				
2f.2.1	License Termination Survey	-	-	-	-	-	-	4,238	1,272	5,510	5.510	-	-	-	-	-	-	-	-	81,422	3,120
2f.2	Subtotal Period 2f Additional Costs	-	-	-	-	-	-	4,238	1,272	5,510	5.510	-	-	-	-	-	-	-	-	81,422	3,120
	Period 2f Collateral Costs																				
2f.3.1	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2.281	-	-	-	-	-	-	-	-	-	-
2f.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	301	45	346	-	346	-	-	-	-	-	-	-	-	-
2f.3	Subtotal Period 2f Collateral Costs	-	-	-	-	-	-	2,285	343	2,628	2,281	346	-	-	-	-	-	-	-	-	-
	Period 2f Period-Dependent Costs																				
2f.4.1	Insurance	-	-	-	-	-	-	391	39	430	430	-	-	-	-	-	-	-	-	-	-
2f.4.2	Property taxes	-	-	-	-	-	-	339	34	373	373	-	-	-	-	-	-	-	-	-	-
2f.4.3	Health physics supplies	-	1,025	-	-	-	-	-	256	1,281	1.281	-	-	-	-	-	-	-	-	-	-
2f.4.4	Disposal of DAW generated	-	-	7	3	-	7	-	3	20	20	-	-	-	337	-	-	-	6.734	11	-
2f.4.5	Plant energy budget	-	-	-	-	-	-	365	55	419	419	-	-	-	-	-	-	-	-	-	-
2f.4.6	NRC Fees	-	-	-	-	-	-	621	62	683	683	-	-	-	-	-	-	-	-	-	-
2f.4.7	ISFSI Operating Costs	-	-	-	-	-	-	50	8	58	-	58	-	-	-	-	-	-	-	-	-
2f.4.8	Security Staff Cost	-	-	-	-	-	-	1,470	221	1,691	605	1,086	-	-	-	-	-	-	-	-	32,909
2f.4.9	DOC Staff Cost	-	-	-	-	-	-	4,608	691	5,299	5,299	-	-	-	-	-	-	-	-	-	46,622
2f.4.10	Utility Staff Cost	-	-	-	-	-	-	5,212	782	5,994	5,442	551	-	-	-	-	-	-	-	-	59,942
2f.4	Subtotal Period 2f Period-Dependent Costs	-	1,025	7	3	-	7	13,055	2,150	16,248	14,553	1,695	-	-	337	-	-	-	6,734	11	139,473
2f.0	TOTAL PERIOD 2f COST	-	1,025	7	3	-	7	19,759	3,818	24,620	22.579	2,041	-	-	337	-	-	-	6.734	81,433	142,593
	PERIOD 2 TOTALS	5,207	60,923	29,940	11.169	-	58,034	345,916	99,207	610,395	497.959	106,277	6,159	-	308.230	963	337	-	25,649.950	715,982	2.707,419
	PERIOD 3b - Site Restoration																				
	Period 3b Direct Decommissioning Activities																				
	Demolition of Remaining Site Buildings																				
3b.1.1.1	Reactor	-	3,303	-	-	-	-	-	496	3,799	-	-	3,799	-	-	-	-	-	-	31,617	-
3b.1.1.2	Circ Water Yard Piping	-	23	-	-	-	-	-	3	26	-	-	26	-	-	-	-	-	-	36	-

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
	Demolition of Remaining Site Buildings (continued)																				
3b.1.1.3	Diesel Generator	-	455	-	-	-	-	-	68	523	-	-	523	-	-	-	-	-	-	4,210	-
3b.1.1.4	Old Steam Generator Storage Facility	-	511	-	-	-	-	-	77	588	-	-	588	-	-	-	-	-	-	3,622	-
3b.1.1.5	Safeguard	-	1,302	-	-	-	-	-	195	1,497	-	-	1,497	-	-	-	-	-	-	10,725	-
3b.1.1.6	Switchgear	-	91	-	-	-	-	-	14	104	-	-	104	-	-	-	-	-	-	795	-
3b.1.1.7	Turbine	-	575	-	-	-	-	-	86	661	-	-	661	-	-	-	-	-	-	7,280	-
3b.1.1.8	Turbine Pedestal	-	637	-	-	-	-	-	96	732	-	-	732	-	-	-	-	-	-	4,159	-
3b.1.1	Totals	-	6,897	-	-	-	-	-	1,035	7,931	-	-	7,931	-	-	-	-	-	-	62,394	-
	Site Closeout Activities																				
3b.1.2	Grade & landscape site	-	462	-	-	-	-	-	69	532	-	-	532	-	-	-	-	-	-	1,292	-
3b.1.3	Final report to NRC	-	-	-	-	-	-	235	35	270	270	-	-	-	-	-	-	-	-	-	1,560
3b.1	Subtotal Period 3b Activity Costs	-	7,359	-	-	-	-	235	1,139	8,734	270	-	8,463	-	-	-	-	-	-	63,686	1,560
	Period 3b Additional Costs																				
3b.2.1	Concrete Crushing	-	549	-	-	-	-	5	83	637	-	-	637	-	-	-	-	-	-	2,483	-
3b.2.2	Construction Debris	-	-	-	-	-	-	0	0	0	-	-	0	-	-	-	-	-	-	-	-
3b.2.3	Firing Range	-	33	-	-	-	-	66	15	114	-	-	114	-	-	-	-	-	-	237	-
3b.2	Subtotal Period 3b Additional Costs	-	582	-	-	-	-	71	98	751	-	-	751	-	-	-	-	-	-	2,720	-
	Period 3b Collateral Costs																				
3b.3.1	Small tool allowance	-	42	-	-	-	-	-	6	48	-	-	48	-	-	-	-	-	-	-	-
3b.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	799	120	919	-	919	-	-	-	-	-	-	-	-	-
3b.3	Subtotal Period 3b Collateral Costs	-	42	-	-	-	-	799	126	967	-	919	48	-	-	-	-	-	-	-	-
	Period 3b Period-Dependent Costs																				
3b.4.1	Insurance	-	-	-	-	-	-	519	52	571	-	-	571	-	-	-	-	-	-	-	-
3b.4.2	Property taxes	-	-	-	-	-	-	899	90	989	-	989	-	-	-	-	-	-	-	-	-
3b.4.3	Heavy equipment rental	-	7,880	-	-	-	-	-	1,182	9,062	-	-	9,062	-	-	-	-	-	-	-	-
3b.4.4	Plant energy budget	-	-	-	-	-	-	484	73	556	-	-	556	-	-	-	-	-	-	-	-
3b.4.5	NRC ISFSI Fees	-	-	-	-	-	-	490	49	539	-	539	-	-	-	-	-	-	-	-	-
3b.4.6	ISFSI Operating Costs	-	-	-	-	-	-	133	20	153	-	153	-	-	-	-	-	-	-	-	-
3b.4.7	Security Staff Cost	-	-	-	-	-	-	3,903	585	4,489	(0)	2,882	1,607	-	-	-	-	-	-	-	87,358
3b.4.8	DOC Staff Cost	-	-	-	-	-	-	11,197	1,680	12,877	-	-	12,877	-	-	-	-	-	-	-	110,240
3b.4.9	Utility Staff Cost	-	-	-	-	-	-	6,013	902	6,914	0	1,459	5,455	-	-	-	-	-	-	-	70,200
3b.4	Subtotal Period 3b Period-Dependent Costs	-	7,880	-	-	-	-	23,638	4,632	36,150	0	6,021	30,129	-	-	-	-	-	-	-	267,798
3b.0	TOTAL PERIOD 3b COST	-	15,863	-	-	-	-	24,743	5,996	46,602	270	6,940	39,391	-	-	-	-	-	-	66,406	269,358
	PERIOD 3c - Fuel Storage Operations/Shipping																				
	Period 3c Collateral Costs																				
3c.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	20,936	3,140	24,077	-	24,077	-	-	-	-	-	-	-	-	-
3c.3	Subtotal Period 3c Collateral Costs	-	-	-	-	-	-	20,936	3,140	24,077	-	24,077	-	-	-	-	-	-	-	-	-
	Period 3c Period-Dependent Costs																				
3c.4.1	Insurance	-	-	-	-	-	-	13,721	1,372	15,093	-	15,093	-	-	-	-	-	-	-	-	-
3c.4.2	Property taxes	-	-	-	-	-	-	23,761	2,376	26,137	-	26,137	-	-	-	-	-	-	-	-	-
3c.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3c.4.4	NRC ISFSI Fees	-	-	-	-	-	-	12,949	1,295	14,244	-	14,244	-	-	-	-	-	-	-	-	-
3c.4.5	ISFSI Operating Costs	-	-	-	-	-	-	3,512	527	4,039	-	4,039	-	-	-	-	-	-	-	-	-
3c.4.6	Security Staff Cost	-	-	-	-	-	-	66,162	9,924	76,086	-	76,086	-	-	-	-	-	-	-	-	1,428,636
3c.4.7	Utility Staff Cost	-	-	-	-	-	-	33,515	5,027	38,543	-	38,543	-	-	-	-	-	-	-	-	370,906
3c.4	Subtotal Period 3c Period-Dependent Costs	-	-	-	-	-	-	153,620	20,521	174,142	-	174,142	-	-	-	-	-	-	-	-	1,799,542
3c.0	TOTAL PERIOD 3c COST	-	-	-	-	-	-	174,557	23,662	198,219	-	198,219	-	-	-	-	-	-	-	-	1,799,542
	PERIOD 3d - GTCC shipping																				
	Period 3d Direct Decommissioning Activities																				
	Nuclear Steam Supply System Removal																				
3d.1.1.1	Vessel & Internals GTCC Disposal	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
3d.1.1	Totals	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
3d.1	Subtotal Period 3d Activity Costs	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
	Period 3d Period-Dependent Costs																				
3d.4.1	Insurance	-	-	-	-	-	-	10	1	11	11	-	-	-	-	-	-	-	-	-	-
3d.4.2	Property taxes	-	-	-	-	-	-	17	2	19	19	-	-	-	-	-	-	-	-	-	-

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 3d Period-Dependent Costs (continued)																					
3d.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3d.4.4	NRC ISFSI Fees	-	-	-	-	-	-	7	1	8	-	8	-	-	-	-	-	-	-	-	-
3d.4.5	ISFSI Operating Costs	-	-	-	-	-	-	3	0	3	-	3	-	-	-	-	-	-	-	-	-
3d.4.6	Security Staff Cost	-	-	-	-	-	-	48	7	55	55	-	-	-	-	-	-	-	-	-	1,037
3d.4.7	Utility Staff Cost	-	-	-	-	-	-	24	4	28	28	-	-	-	-	-	-	-	-	-	269
3d.4	Subtotal Period 3d Period-Dependent Costs	-	-	-	-	-	-	109	15	124	113	11	-	-	-	-	-	-	-	-	1,306
3d.0	TOTAL PERIOD 3d COST	-	-	1.000	-	-	10,532	109	1,844	13,485	13.475	11	-	-	-	-	-	2,061	401.974	-	1,306
PERIOD 3e - ISFSI Decontamination																					
Period 3e Additional Costs																					
3e.2.1	License Termination ISFSI	-	475	205	506	-	3,229	2,471	1,746	8,732	8,732	-	-	-	20,329	-	-	-	2,015,971	14,285	1,293
3e.2	Subtotal Period 3e Additional Costs	-	475	205	506	-	3,229	2,471	1,746	8,732	8,732	-	-	-	20,329	-	-	-	2,015,971	14,285	1,293
Period 3e Period-Dependent Costs																					
3e.4.1	Insurance	-	-	-	-	-	-	61	15	77	77	-	-	-	-	-	-	-	-	-	-
3e.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3e.4.3	Plant energy budget	-	-	-	-	-	-	8	2	10	10	-	-	-	-	-	-	-	-	-	-
3e.4.4	Security Staff Cost	-	-	-	-	-	-	117	29	146	146	-	-	-	-	-	-	-	-	-	2,479
3e.4.5	Utility Staff Cost	-	-	-	-	-	-	172	43	215	215	-	-	-	-	-	-	-	-	-	1,881
3e.4	Subtotal Period 3e Period-Dependent Costs	-	-	-	-	-	-	358	89	447	447	-	-	-	-	-	-	-	-	-	4,359
3e.0	TOTAL PERIOD 3e COST	-	475	205	506	-	3,229	2,829	1,836	9,179	9,179	-	-	-	20,329	-	-	-	2,015,971	14,285	5,652
PERIOD 3f - ISFSI Site Restoration																					
Period 3f Additional Costs																					
3f.2.1	Demolition and Site Restoration ISFSI	-	6,261	-	-	-	-	35	944	7,240	-	-	7,240	-	-	-	-	-	-	51,188	80
3f.2	Subtotal Period 3f Additional Costs	-	6,261	-	-	-	-	35	944	7,240	-	-	7,240	-	-	-	-	-	-	51,188	80
Period 3f Collateral Costs																					
3f.3.1	Small tool allowance	-	73	-	-	-	-	-	11	84	-	-	84	-	-	-	-	-	-	-	-
3f.3	Subtotal Period 3f Collateral Costs	-	73	-	-	-	-	-	11	84	-	-	84	-	-	-	-	-	-	-	-
Period 3f Period-Dependent Costs																					
3f.4.1	Insurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3f.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3f.4.3	Plant energy budget	-	-	-	-	-	-	4	1	5	-	-	5	-	-	-	-	-	-	-	-
3f.4.4	Security Staff Cost	-	-	-	-	-	-	58	9	67	-	-	67	-	-	-	-	-	-	-	1,239
3f.4.5	Utility Staff Cost	-	-	-	-	-	-	71	11	82	-	-	82	-	-	-	-	-	-	-	769
3f.4	Subtotal Period 3f Period-Dependent Costs	-	-	-	-	-	-	133	20	153	-	-	153	-	-	-	-	-	-	-	2,009
3f.0	TOTAL PERIOD 3f COST	-	6,334	-	-	-	-	168	975	7,477	-	-	7,477	-	-	-	-	-	-	51,188	2,089
PERIOD 3 TOTALS		-	22,672	1,205	506	-	13,761	202,406	34,313	274,963	22,925	205,170	46,869	-	20,329	-	-	2,061	2,417,945	121,880	2,077,947
TOTAL COST TO DECOMMISSION		10,227	87,960	31.402	12.000	-	72,821	693,016	157,689	1.065,116	683.696	326,525	54,896	-	419.851	1.827	337	2,061	28,198.840	881,446	5.804,139

Table C-1
Comanche Peak Nuclear Power Plant Unit 1
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours

TOTAL COST TO DECOMMISSION WITH 17.38% CONTINGENCY:	$1,065,116	thousands of 2024 dollars
TOTAL NRC LICENSE TERMINATION COST IS 64.19% OR:	$683,696	thousands of 2024 dollars
SPENT FUEL MANAGEMENT COST IS 30.66% OR:	$326,525	thousands of 2024 dollars
NON-NUCLEAR DEMOLITION COST IS 5.15% OR:	$54,896	thousands of 2024 dollars
TOTAL LOW-LEVEL RADIOACTIVE WASTE VOLUME BURIED (EXCLUDING GTCC):	422,014	Cubic Feet
TOTAL GREATER THAN CLASS C RADWASTE VOLUME GENERATED:	2,061	Cubic Feet
TOTAL SCRAP METAL REMOVED:	59,580	Tons
TOTAL CRAFT LABOR REQUIREMENTS:	881,446	Man-hours

End Notes:
n/a - indicates that this activity not charged as decommissioning expense
a - indicates that this activity performed by decommissioning staff
0 - indicates that this value is less than 0.5 but is non-zero
A cell containing " - " indicates a zero value

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1a - Shutdown through Transition																					
Period 1a Direct Decommissioning Activities																					
1a.1.1	Prepare preliminary decommissioning cost	-	-	-	-	-	-	84	13	96	96	-	-	-	-	-	-	-	-	-	556
1a.1.2	Notification of Cessation of Operations									a											
1a.1.3	Remove fuel & source material									n/a											
1a.1.4	Notification of Permanent Defueling									a											
1a.1.5	Deactivate plant systems & process waste									a											
1a.1.6	Prepare and submit PSDAR	-	-	-	-	-	-	129	19	148	148	-	-	-	-	-	-	-	-	-	856
1a.1.7	Review plant dwgs & specs.	-	-	-	-	-	-	297	45	341	341	-	-	-	-	-	-	-	-	-	1,969
1a.1.8	Perform detailed rad survey									a											
1a.1.9	Estimate by-product inventory	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1a.1.10	End product description	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1a.1.11	Detailed by-product inventory	-	-	-	-	-	-	84	13	96	96	-	-	-	-	-	-	-	-	-	556
1a.1.12	Define major work sequence	-	-	-	-	-	-	484	73	557	557	-	-	-	-	-	-	-	-	-	3,210
1a.1.13	Perform SER and EA	-	-	-	-	-	-	200	30	230	230	-	-	-	-	-	-	-	-	-	1,327
1a.1.14	Prepare/submit Defueled Technical Specifications	-	-	-	-	-	-	484	73	557	557	-	-	-	-	-	-	-	-	-	3,210
1a.1.15	Perform Site-Specific Cost Study	-	-	-	-	-	-	323	48	371	371	-	-	-	-	-	-	-	-	-	2,140
1a.1.16	Prepare/submit Irradiated Fuel Management Plan	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
Activity Specifications																					
1a.1.17.1	Plant & temporary facilities	-	-	-	-	-	-	318	48	365	329	-	37	-	-	-	-	-	-	-	2,106
1a.1.17.2	Plant systems	-	-	-	-	-	-	269	40	309	278	-	31	-	-	-	-	-	-	-	1,783
1a.1.17.3	NSSS Decontamination Flush	-	-	-	-	-	-	32	5	37	37	-	-	-	-	-	-	-	-	-	214
1a.1.17.4	Reactor internals	-	-	-	-	-	-	458	69	527	527	-	-	-	-	-	-	-	-	-	3,039
1a.1.17.5	Reactor vessel	-	-	-	-	-	-	419	63	482	482	-	-	-	-	-	-	-	-	-	2,782
1a.1.17.6	Biological shield	-	-	-	-	-	-	32	5	37	37	-	-	-	-	-	-	-	-	-	214
1a.1.17.7	Steam generators	-	-	-	-	-	-	201	30	232	232	-	-	-	-	-	-	-	-	-	1,335
1a.1.17.8	Reinforced concrete	-	-	-	-	-	-	103	15	119	59	-	59	-	-	-	-	-	-	-	685
1a.1.17.9	Main Turbine	-	-	-	-	-	-	26	4	30	-	-	30	-	-	-	-	-	-	-	171
1a.1.17.10	Main Condensers	-	-	-	-	-	-	26	4	30	-	-	30	-	-	-	-	-	-	-	171
1a.1.17.11	Plant structures & buildings	-	-	-	-	-	-	201	30	232	116	-	116	-	-	-	-	-	-	-	1,335
1a.1.17.12	Waste management	-	-	-	-	-	-	297	45	341	341	-	-	-	-	-	-	-	-	-	1,969
1a.1.17.13	Facility & site closeout	-	-	-	-	-	-	58	9	67	33	-	33	-	-	-	-	-	-	-	385
1a.1.17	Total	-	-	-	-	-	-	2,441	366	2,807	2,472	-	335	-	-	-	-	-	-	-	16,190
Planning & Site Preparations																					
1a.1.18	Prepare dismantling sequence	-	-	-	-	-	-	155	23	178	178	-	-	-	-	-	-	-	-	-	1,027
1a.1.19	Plant prep. & temp. svces	-	-	-	-	-	-	4,200	630	4,830	4,830	-	-	-	-	-	-	-	-	-	-
1a.1.20	Design water clean-up system	-	-	-	-	-	-	90	14	104	104	-	-	-	-	-	-	-	-	-	599
1a.1.21	Rigging/Cont. Cntrl Envlps/tooling/etc.	-	-	-	-	-	-	2,900	435	3,335	3,335	-	-	-	-	-	-	-	-	-	-
1a.1.22	Procure casks/liners & containers	-	-	-	-	-	-	79	12	91	91	-	-	-	-	-	-	-	-	-	526
1a.1	Subtotal Period 1a Activity Costs	-	-	-	-	-	-	12,144	1,822	13,965	13,630	-	335	-	-	-	-	-	-	-	33,451
Period 1a Collateral Costs																					
1a.3	Subtotal Period 1a Collateral Costs	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Period 1a Period-Dependent Costs																					
1a.4.1	Insurance	-	-	-	-	-	-	2,446	245	2,691	2,691	-	-	-	-	-	-	-	-	-	-
1a.4.2	Property taxes	-	-	-	-	-	-	489	49	538	538	-	-	-	-	-	-	-	-	-	-
1a.4.3	Health physics supplies	-	962	-	-	-	-	-	240	1,202	1,202	-	-	-	-	-	-	-	-	-	-
1a.4.4	Heavy equipment rental	-	899	-	-	-	-	-	135	1,033	1,033	-	-	-	-	-	-	-	-	-	-
1a.4.5	Disposal of DAW generated	-	-	13	6	-	13	-	5	37	37	-	-	-	610	-	-	-	12,190	20	-
1a.4.6	Plant energy budget	-	-	-	-	-	-	2,419	363	2,782	2,782	-	-	-	-	-	-	-	-	-	-
1a.4.7	NRC Fees	-	-	-	-	-	-	869	87	956	956	-	-	-	-	-	-	-	-	-	-
1a.4.8	Emergency Planning Fees	-	-	-	-	-	-	499	50	549	-	549	-	-	-	-	-	-	-	-	-
1a.4.9	Spent Fuel Pool O&M	-	-	-	-	-	-	514	77	591	-	591	-	-	-	-	-	-	-	-	-
1a.4.10	ISFSI Operating Costs	-	-	-	-	-	-	66	10	76	-	76	-	-	-	-	-	-	-	-	-
1a.4.11	Security Staff Cost	-	-	-	-	-	-	5,930	890	6,820	6,820	-	-	-	-	-	-	-	-	-	133,116
1a.4.12	Utility Staff Cost	-	-	-	-	-	-	34,338	5,151	39,489	39,489	-	-	-	-	-	-	-	-	-	422,240
1a.4	Subtotal Period 1a Period-Dependent Costs	-	1,861	13	6	-	13	47,572	7,301	56,766	55,549	1,217	-	-	610	-	-	-	12,190	20	555,356
1a.0	TOTAL PERIOD 1a COST	-	1,861	13	6	-	13	59,716	9,123	70,731	69,179	1,217	335	-	610	-	-	-	12,190	20	588,807

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1b - Decommissioning Preparations																					
Period 1b Direct Decommissioning Activities																					
Detailed Work Procedures																					
1b.1.1.1	Plant systems	-	-	-	-	-	-	305	46	351	316	-	35	-	-	-	-	-	-	-	2,026
1b.1.1.2	NSSS Decontamination Flush	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1b.1.1.3	Reactor internals	-	-	-	-	-	-	161	24	186	186	-	-	-	-	-	-	-	-	-	1,070
1b.1.1.4	Remaining buildings	-	-	-	-	-	-	87	13	100	25	-	75	-	-	-	-	-	-	-	578
1b.1.1.5	CRD cooling assembly	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1b.1.1.6	CRD housings & ICI tubes	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1b.1.1.7	Incore instrumentation	-	-	-	-	-	-	65	10	74	74	-	-	-	-	-	-	-	-	-	428
1b.1.1.8	Reactor vessel	-	-	-	-	-	-	234	35	269	269	-	-	-	-	-	-	-	-	-	1,554
1b.1.1.9	Facility closeout	-	-	-	-	-	-	77	12	89	45	-	45	-	-	-	-	-	-	-	514
1b.1.1.10	Missile shields	-	-	-	-	-	-	29	4	33	33	-	-	-	-	-	-	-	-	-	193
1b.1.1.11	Biological shield	-	-	-	-	-	-	77	12	89	89	-	-	-	-	-	-	-	-	-	514
1b.1.1.12	Steam generators	-	-	-	-	-	-	297	45	341	341	-	-	-	-	-	-	-	-	-	1,969
1b.1.1.13	Reinforced concrete	-	-	-	-	-	-	65	10	74	37	-	37	-	-	-	-	-	-	-	428
1b.1.1.14	Main Turbine	-	-	-	-	-	-	101	15	116	-	-	116	-	-	-	-	-	-	-	668
1b.1.1.15	Main Condensers	-	-	-	-	-	-	101	15	116	-	-	116	-	-	-	-	-	-	-	668
1b.1.1.16	Auxiliary building	-	-	-	-	-	-	176	26	203	182	-	20	-	-	-	-	-	-	-	1,168
1b.1.1.17	Reactor building	-	-	-	-	-	-	176	26	203	182	-	20	-	-	-	-	-	-	-	1,168
1b.1.1	Total	-	-	-	-	-	-	2,145	322	2,467	2,003	-	464	-	-	-	-	-	-	-	14,228
1b.1.2	Decon primary loop	1,105	-	-	-	-	-	-	553	1,658	1,658	-	-	-	-	-	-	-	-	1,067	-
1b.1	Subtotal Period 1b Activity Costs	1,105	-	-	-	-	-	2,145	874	4,125	3,661	-	464	-	-	-	-	-	-	1,067	14,228
Period 1b Additional Costs																					
1b.2.1	Spent Fuel Pool Isolation	-	-	-	-	-	-	10,037	1,505	11,542	11.542	-	-	-	-	-	-	-	-	-	-
1b.2.2	Site Characterization	-	-	-	-	-	-	2,490	747	3,237	3.237	-	-	-	-	-	-	-	-	13,794	4,616
1b.2	Subtotal Period 1b Additional Costs	-	-	-	-	-	-	12,527	2,252	14,779	14.779	-	-	-	-	-	-	-	-	13,794	4,616
Period 1b Collateral Costs																					
1b.3.1	Decon equipment	1,253	-	-	-	-	-	-	188	1,441	1,441	-	-	-	-	-	-	-	-	-	-
1b.3.2	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2,281	-	-	-	-	-	-	-	-	-	-
1b.3.3	Process decommissioning water waste	57	-	39	54	-	43	-	51	244	244	-	-	-	326	-	-	-	19,555	64	-
1b.3.4	Process decommissioning chemical flush waste	3	-	99	261	-	963	-	291	1,617	1,617	-	-	-	-	864	-	-	92,070	162	-
1b.3.5	Small tool allowance	-	2	-	-	-	-	-	0	3	3	-	-	-	-	-	-	-	-	-	-
1b.3.6	Pipe cutting equipment	-	1,500	-	-	-	-	-	225	1,725	1.725	-	-	-	-	-	-	-	-	-	-
1b.3.7	Decon rig	2,558	-	-	-	-	-	-	384	2,941	2.941	-	-	-	-	-	-	-	-	-	-
1b.3	Subtotal Period 1b Collateral Costs	3,870	1,502	137	316	-	1,006	1,984	1,437	10,252	10.252	-	-	-	326	864	-	-	111.626	225	-
Period 1b Period-Dependent Costs																					
1b.4.1	Decon supplies	44	-	-	-	-	-	-	11	56	56	-	-	-	-	-	-	-	-	-	-
1b.4.2	Insurance	-	-	-	-	-	-	1,220	122	1,342	1,342	-	-	-	-	-	-	-	-	-	-
1b.4.3	Property taxes	-	-	-	-	-	-	224	22	247	247	-	-	-	-	-	-	-	-	-	-
1b.4.4	Health physics supplies	-	545	-	-	-	-	-	136	682	682	-	-	-	-	-	-	-	-	-	-
1b.4.5	Heavy equipment rental	-	448	-	-	-	-	-	67	515	515	-	-	-	-	-	-	-	-	-	-
1b.4.6	Disposal of DAW generated	-	-	7	3	-	8	-	3	22	22	-	-	-	356	-	-	-	7.122	12	-
1b.4.7	Plant energy budget	-	-	-	-	-	-	2,412	362	2,774	2.774	-	-	-	-	-	-	-	-	-	-
1b.4.8	NRC Fees	-	-	-	-	-	-	293	29	322	322	-	-	-	-	-	-	-	-	-	-
1b.4.9	Emergency Planning Fees	-	-	-	-	-	-	249	25	274	-	274	-	-	-	-	-	-	-	-	-
1b.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	256	38	295	-	295	-	-	-	-	-	-	-	-	-
1b.4.11	ISFSI Operating Costs	-	-	-	-	-	-	33	5	38	-	38	-	-	-	-	-	-	-	-	-
1b.4.12	Security Staff Cost	-	-	-	-	-	-	2,957	444	3,401	3,401	-	-	-	-	-	-	-	-	-	66,376
1b.4.13	DOC Staff Cost	-	-	-	-	-	-	6,249	937	7,186	7,186	-	-	-	-	-	-	-	-	-	63,266
1b.4.14	Utility Staff Cost	-	-	-	-	-	-	17,214	2,582	19,796	19,796	-	-	-	-	-	-	-	-	-	211,579
1b.4	Subtotal Period 1b Period-Dependent Costs	44	993	7	3	-	8	31,108	4,785	36,949	36.342	607	-	-	356	-	-	-	7.122	12	341,221
1b.0	TOTAL PERIOD 1b COST	5,020	2,496	145	319	-	1,014	47,763	9,348	66,105	65.034	607	464	-	682	864	-	-	118.747	15,098	360,065
PERIOD 1 TOTALS		5,020	4,356	157	325	-	1,027	107,479	18,471	136,836	134.213	1,823	799	-	1.292	864	-	-	130.938	15,118	948,873
PERIOD 2a - Large Component Removal																					
Period 2a Direct Decommissioning Activities																					
Nuclear Steam Supply System Removal																					
2a.1.1.1	Reactor Coolant Piping	94	102	25	34	-	180	-	125	561	561	-	-	-	1.275	-	-	-	88.984	4,317	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Nuclear Steam Supply System Removal (continued)																					
2a.1.1.2	Pressurizer Relief Tank	25	21	11	16	-	82	-	41	196	196	-	-	-	581	-	-	-	40,513	1,082	-
2a.1.1.3	Reactor Coolant Pumps & Motors	92	74	426	275	-	1,234	-	457	2,559	2,559	-	-	-	7,394	-	-	-	863,642	4,595	100
2a.1.1.4	Pressurizer	-	42	456	131	-	575	-	219	1,423	1,423	-	-	-	3,445	-	-	-	240,508	1,346	938
2a.1.1.5	Steam Generators	-	5,169	1,815	2,113	-	9,934	-	4,274	23,304	23,304	-	-	-	59,529	-	-	-	3,713,200	12,531	2,125
2a.1.1.6	CRDMs/ICIs/Service Structure Removal	122	245	269	62	-	362	-	249	1,309	1,309	-	-	-	4,852	-	-	-	179,025	8,214	-
2a.1.1.7	Reactor Vessel Internals	50	6,182	16,898	781	-	4,908	391	11,594	40,805	40,805	-	-	-	4,289	963	337	-	348,455	31,507	1,419
2a.1.1.8	Reactor Vessel	91	8,005	3,221	812	-	1,782	391	8,007	22,309	22,309	-	-	-	13,584	-	-	-	973,221	31,507	1,419
2a.1.1	Totals	474	19,840	23,121	4,224	-	19,056	783	24,967	92,465	92,465	-	-	-	94,949	963	337	-	6,447,548	95,098	6,000
Removal of Major Equipment																					
2a.1.2	Main Turbine/Generator	-	313	1,001	618	-	5,870	-	1,739	9,541	9,541	-	-	-	45,743	-	-	-	2,905,964	7,936	-
2a.1.3	Main Condensers	-	492	1,358	838	-	7,964	-	2,375	13,027	13,027	-	-	-	62,059	-	-	-	3,942,421	12,750	-
Cascading Costs from Clean Building Demolition																					
2a.1.4.1	Reactor	-	582	-	-	-	-	-	87	669	669	-	-	-	-	-	-	-	-	5,559	-
2a.1.4.2	Auxiliary	-	274	-	-	-	-	-	41	315	315	-	-	-	-	-	-	-	-	2,033	-
2a.1.4.3	Safeguard	-	68	-	-	-	-	-	10	79	79	-	-	-	-	-	-	-	-	558	-
2a.1.4.4	Fuel	-	301	-	-	-	-	-	45	346	346	-	-	-	-	-	-	-	-	3,097	-
2a.1.4	Totals	-	1,225	-	-	-	-	-	184	1,409	1,409	-	-	-	-	-	-	-	-	11,248	-
Disposal of Plant Systems																					
2a.1.5.1	Auxiliary Feedwater (insulated)	-	638	169	92	-	874	-	409	2,182	2,182	-	-	-	6,755	-	-	-	432,570	14,312	-
2a.1.5.2	Auxiliary Steam	-	127	-	-	-	-	-	19	146	-	-	146	-	-	-	-	-	-	3,676	-
2a.1.5.3	Boron Recycle (insulated)	20	39	4	2	-	18	-	25	108	108	-	-	-	135	-	-	-	8,754	1,295	-
2a.1.5.4	Boron Recycle (uninsulated)	304	387	80	46	-	441	-	374	1,632	1,632	-	-	-	3,420	-	-	-	218,469	15,708	-
2a.1.5.5	Boron Thermal Regeneration (insulated)	48	90	11	5	-	47	-	60	261	261	-	-	-	359	-	-	-	23,281	2,877	-
2a.1.5.6	Boron Thermal Regeneration (uninsulated)	136	242	34	17	-	158	-	174	760	760	-	-	-	1,215	-	-	-	78,456	7,885	-
2a.1.5.7	Carbon Dioxide Gas	-	1	-	-	-	-	-	0	1	-	-	1	-	-	-	-	-	-	20	-
2a.1.5.8	Chemical & Volume Control (insulated)	110	213	23	11	-	102	-	137	596	596	-	-	-	779	-	-	-	50,589	6,876	-
2a.1.5.9	Chemical & Volume Control (uninsulated)	362	565	95	51	-	489	-	462	2,024	2,024	-	-	-	3,774	-	-	-	242,220	20,090	-
2a.1.5.10	Chemical Feed	-	15	-	-	-	-	-	2	17	-	-	17	-	-	-	-	-	-	421	-
2a.1.5.11	Chemical Feed - RCA	-	9	1	0	-	2	-	3	15	15	-	-	-	15	-	-	-	971	253	-
2a.1.5.12	Chilled Water - Safety	-	5	-	-	-	-	-	1	6	-	-	6	-	-	-	-	-	-	159	-
2a.1.5.13	Chilled Water - Safety - RCA	-	106	15	7	-	62	-	44	233	233	-	-	-	471	-	-	-	30,651	2,232	-
2a.1.5.14	Chlorine	-	14	-	-	-	-	-	2	16	-	-	16	-	-	-	-	-	-	369	-
2a.1.5.15	Circulating Water	-	352	-	-	-	-	-	53	404	-	-	404	-	-	-	-	-	-	10,429	-
2a.1.5.16	Component Cooling Water	-	27	-	-	-	-	-	4	31	-	-	31	-	-	-	-	-	-	763	-
2a.1.5.17	Component Cooling Water - RCA	-	1,152	409	242	-	2,295	-	939	5,037	5,037	-	-	-	17,786	-	-	-	1,136,365	26,319	-
2a.1.5.18	Condensate (insulated)	-	146	-	-	-	-	-	22	168	-	-	168	-	-	-	-	-	-	4,373	-
2a.1.5.19	Condensate (uninsulated)	-	123	-	-	-	-	-	19	142	-	-	142	-	-	-	-	-	-	3,541	-
2a.1.5.20	Condensate Polishing	-	113	-	-	-	-	-	17	130	-	-	130	-	-	-	-	-	-	3,327	-
2a.1.5.21	Condenser Vacuum & Water Box Priming	-	69	-	-	-	-	-	10	79	-	-	79	-	-	-	-	-	-	2,017	-
2a.1.5.22	Extraction Steam	-	60	-	-	-	-	-	9	69	-	-	69	-	-	-	-	-	-	1,806	-
2a.1.5.23	Feedwater	-	239	-	-	-	-	-	36	275	-	-	275	-	-	-	-	-	-	7,084	-
2a.1.5.24	Feedwater - RCA	-	64	27	17	-	161	-	61	331	331	-	-	-	1,250	-	-	-	79,675	1,502	-
2a.1.5.25	Generator & Exciter	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
2a.1.5.26	Generator Gas Cooling	-	9	-	-	-	-	-	1	10	-	-	10	-	-	-	-	-	-	247	-
2a.1.5.27	Generator Primary Water	-	60	-	-	-	-	-	9	69	-	-	69	-	-	-	-	-	-	1,745	-
2a.1.5.28	Generator Seal Oil	-	8	-	-	-	-	-	1	9	-	-	9	-	-	-	-	-	-	218	-
2a.1.5.29	Hydrogen Gas	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	54	-
2a.1.5.30	Main Steam Reheat & Steam Dump	-	40	-	-	-	-	-	6	46	-	-	46	-	-	-	-	-	-	1,136	-
2a.1.5.31	Main Steam Reheat & Steam Dump - RCA	-	467	141	77	-	731	-	325	1,742	1,742	-	-	-	5,641	-	-	-	361,941	10,542	-
2a.1.5.32	Main Turbine Lube Oil	-	48	-	-	-	-	-	7	55	-	-	55	-	-	-	-	-	-	1,383	-
2a.1.5.33	Main Turbine Oil Purification	-	92	-	-	-	-	-	14	106	-	-	106	-	-	-	-	-	-	2,663	-
2a.1.5.34	Nitrogen Gas	-	1	-	-	-	-	-	0	1	-	-	1	-	-	-	-	-	-	39	-
2a.1.5.35	Oxygen Gas	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	42	-
2a.1.5.36	Post Accident Sampling	-	8	0	0	-	2	-	3	14	14	-	-	-	15	-	-	-	951	222	-
2a.1.5.37	Process Sampling (uninsulated)	-	11	3	2	-	23	-	9	48	48	-	-	-	177	-	-	-	11,236	269	-
2a.1.5.38	Reactor Coolant	65	124	15	7	-	70	-	84	364	364	-	-	-	534	-	-	-	34,556	3,921	-
2a.1.5.39	Reservoir Makeup Water	-	95	-	-	-	-	-	14	109	-	-	109	-	-	-	-	-	-	2,790	-
2a.1.5.40	Reservoir Return Water	-	70	-	-	-	-	-	11	81	-	-	81	-	-	-	-	-	-	2,095	-
2a.1.5.41	Reservoir Service Tower	-	10	-	-	-	-	-	2	12	-	-	12	-	-	-	-	-	-	308	-
2a.1.5.42	Residual Heat Removal	464	252	148	80	-	758	-	511	2,213	2,213	-	-	-	5,833	-	-	-	375,247	7,176	-
2a.1.5.43	Safety Injection (insulated)	-	123	37	20	-	190	-	85	454	454	-	-	-	1,465	-	-	-	93,997	2,765	-
2a.1.5.44	Safety Injection (uninsulated)	-	385	167	100	-	953	-	366	1,972	1,972	-	-	-	7,406	-	-	-	471,598	9,419	-
2a.1.5.45	Secondary Plant Sampling	-	32	-	-	-	-	-	5	37	-	-	37	-	-	-	-	-	-	1,040	-
2a.1.5.46	Steam Generator Blowdown & Cleanup	-	146	-	-	-	-	-	22	168	-	-	168	-	-	-	-	-	-	4,265	-
2a.1.5.47	Turbine Electrohydr Cntrl (insulated)	-	28	-	-	-	-	-	4	33	-	-	33	-	-	-	-	-	-	838	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems (continued)																					
2a.1.5.48	Turbine Electrohydr Cntrl (uninsulated)	-	20	-	-	-	-	-	3	23	-	-	23	-	-	-	-	-	-	552	-
2a.1.5.49	Turbine Gland Steam & Drains	-	38	-	-	-	-	-	6	44	-	-	44	-	-	-	-	-	-	1,132	-
2a.1.5.50	Turbine Heater Drains	-	411	-	-	-	-	-	62	473	-	-	473	-	-	-	-	-	-	12,296	-
2a.1.5.51	Turbine Plant Cooling (insulated)	-	18	-	-	-	-	-	3	21	-	-	21	-	-	-	-	-	-	549	-
2a.1.5.52	Turbine Plant Cooling (uninsulated)	-	149	-	-	-	-	-	22	172	-	-	172	-	-	-	-	-	-	4,420	-
2a.1.5.53	Turbines (HIGH - LOW) (insulated)	-	5	-	-	-	-	-	1	6	-	-	6	-	-	-	-	-	-	156	-
2a.1.5.54	Turbines (HIGH - LOW) (uninsulated)	-	16	-	-	-	-	-	2	18	-	-	18	-	-	-	-	-	-	474	-
2a.1.5.55	Vent Chilled Water - Non Safety	-	82	-	-	-	-	-	12	95	-	-	95	-	-	-	-	-	-	2,423	-
2a.1.5.56	Vent Chilled Water - Non Safety - RCA	-	639	143	70	-	664	-	350	1,866	1,866	-	-	-	5,088	-	-	-	328,470	13,960	-
2a.1.5.57	Westinghouse Process Instruments	-	4	0	0	-	2	-	2	8	8	-	-	-	16	-	-	-	993	111	-
2a.1.5	Totals	1,509	8,193	1,522	846	-	8,042	-	4,825	24,936	21,860	-	3,076	-	62,132	-	-	-	3,980,992	226,622	-
2a.1.6	Scaffolding in support of decommissioning	-	1,336	25	16	-	149	-	376	1,901	1,901	-	-	-	1,157	-	-	-	73,520	40,258	-
2a.1	Subtotal Period 2a Activity Costs	1,984	31,399	27,027	6,542	-	41,080	783	34,466	143,279	140,203	-	3,076	-	266,041	963	337	-	17,350,450	393,912	6,000
Period 2a Additional Costs																					
2a.2.1	Remedial Action Surveys	-	-	-	-	-	-	1,922	576	2,498	2,498	-	-	-	-	-	-	-	-	35,080	-
2a.2.2	Asbestos Abatement	-	-	-	-	-	-	1,000	150	1,150	-	-	1,150	-	-	-	-	-	-	-	-
2a.2.3	Mixed Waste Disposal	-	-	-	-	-	-	50	8	58	58	-	-	-	-	-	-	-	-	-	-
2a.2	Subtotal Period 2a Additional Costs	-	-	-	-	-	-	2,972	734	3,705	2,555	-	1,150	-	-	-	-	-	-	35,080	-
Period 2a Collateral Costs																					
2a.3.1	Process decommissioning water waste	203	-	141	197	-	155	-	184	880	880	-	-	-	1,181	-	-	-	70,844	230	-
2a.3.2	Process decommissioning chemical flush waste	4	-	136	361	-	279	-	139	919	919	-	-	-	1,194	-	-	-	127,197	223	-
2a.3.3	Small tool allowance	-	310	-	-	-	-	-	47	357	321	-	36	-	-	-	-	-	-	-	-
2a.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	24,484	3,673	28,157	-	28,157	-	-	-	-	-	-	-	-	-
2a.3.5	Severance	-	-	-	-	-	-	3,339	501	3,839	3,839	-	-	-	-	-	-	-	-	-	-
2a.3	Subtotal Period 2a Collateral Costs	207	310	277	558	-	434	27,823	4,543	34,152	5,959	28,157	36	-	2,374	-	-	-	198,041	454	-
Period 2a Period-Dependent Costs																					
2a.4.1	Decon supplies	150	-	-	-	-	-	-	38	188	188	-	-	-	-	-	-	-	-	-	-
2a.4.2	Insurance	-	-	-	-	-	-	877	88	964	964	-	-	-	-	-	-	-	-	-	-
2a.4.3	Property taxes	-	-	-	-	-	-	759	76	835	835	-	-	-	-	-	-	-	-	-	-
2a.4.4	Health physics supplies	-	5,488	-	-	-	-	-	1,372	6,860	6,860	-	-	-	-	-	-	-	-	-	-
2a.4.5	Heavy equipment rental	-	4,741	-	-	-	-	-	711	5,453	5,453	-	-	-	-	-	-	-	-	-	-
2a.4.6	Disposal of DAW generated	-	-	129	59	-	137	-	56	381	381	-	-	-	6,267	-	-	-	125,350	204	-
2a.4.7	Plant energy budget	-	-	-	-	-	-	3,878	582	4,460	4,460	-	-	-	-	-	-	-	-	-	-
2a.4.8	NRC Fees	-	-	-	-	-	-	933	93	1,027	1,027	-	-	-	-	-	-	-	-	-	-
2a.4.9	Emergency Planning Fees	-	-	-	-	-	-	290	29	319	-	319	-	-	-	-	-	-	-	-	-
2a.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	868	130	998	-	998	-	-	-	-	-	-	-	-	-
2a.4.11	ISFSI Operating Costs	-	-	-	-	-	-	112	17	129	-	129	-	-	-	-	-	-	-	-	-
2a.4.12	Security Staff Cost	-	-	-	-	-	-	10,008	1,501	11,510	11,510	-	-	-	-	-	-	-	-	-	224,657
2a.4.13	DOC Staff Cost	-	-	-	-	-	-	26,150	3,922	30,072	30,072	-	-	-	-	-	-	-	-	-	266,787
2a.4.14	Utility Staff Cost	-	-	-	-	-	-	41,723	6,258	47,982	47,982	-	-	-	-	-	-	-	-	-	496,715
2a.4	Subtotal Period 2a Period-Dependent Costs	150	10,230	129	59	-	137	85,599	14,874	111,179	109,732	1,447	-	-	6,267	-	-	-	125,350	204	988,159
2a.0	TOTAL PERIOD 2a COST	2,340	41,939	27,433	7,159	-	41,650	117,176	54,617	292,314	258,450	29,603	4,262	-	274,683	963	337	-	17,673,840	429,650	994,159
PERIOD 2b - Site Decontamination																					
Period 2b Direct Decommissioning Activities																					
Disposal of Plant Systems																					
2b.1.1.1	Auxiliary Building HVAC (insulated)	-	58	11	7	-	70	-	34	181	181	-	-	-	549	-	-	-	34,870	1,137	-
2b.1.1.2	Auxiliary Building HVAC (uninsulated)	-	72	12	9	-	82	-	41	216	216	-	-	-	638	-	-	-	40,534	1,483	-
2b.1.1.3	Batt Rms & Misc Uncontrolled Acc. HVAC	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	91	-
2b.1.1.4	Compressed Air - Instr. Air (insulated)	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	83	-
2b.1.1.5	Compressed Air - Instrument Air - RCA (i	-	48	4	2	-	16	-	17	86	86	-	-	-	121	-	-	-	7,932	1,178	-
2b.1.1.6	Compressed Air - Instrument Air - RCA (u	-	142	21	9	-	85	-	60	317	317	-	-	-	649	-	-	-	42,216	2,977	-
2b.1.1.7	Compressed Air - Service Air	-	29	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	886	-
2b.1.1.8	Compressed Air - Service Air - RCA	-	148	19	8	-	77	-	59	311	311	-	-	-	583	-	-	-	37,981	3,284	-
2b.1.1.9	Compressed Air - instr. Air(uninsulated)	-	43	-	-	-	-	-	6	49	-	-	49	-	-	-	-	-	-	1,267	-
2b.1.1.10	Containment Hatches	-	18	2	1	-	12	-	8	42	42	-	-	-	93	-	-	-	6,019	414	-
2b.1.1.11	Containment Hydrogen Purge HVAC	-	61	15	8	-	75	-	37	195	195	-	-	-	578	-	-	-	37,163	1,464	-
2b.1.1.12	Containment Spray	-	415	333	182	-	1,726	-	596	3,251	3,251	-	-	-	13,318	-	-	-	854,341	10,156	-
2b.1.1.13	Containment Ventilation HVAC (uninsul)	-	34	10	7	-	65	-	27	142	142	-	-	-	504	-	-	-	31,997	804	-
2b.1.1.14	Containment Ventilation HVAC(insulated)	-	231	124	76	-	726	-	263	1,420	1,420	-	-	-	5,623	-	-	-	359,197	5,365	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems (continued)																					
2b.1.1.15	Control Room HVAC	-	39	-	-	-	-	-	6	45	-	-	45	-	-	-	-	-	-	1,144	-
2b.1.1.16	Demineralized & RCS Makeup Water	-	132	-	-	-	-	-	20	152	-	-	152	-	-	-	-	-	-	3,662	-
2b.1.1.17	Demineralized & RCS Makeup Water - RCA	-	454	70	31	-	296	-	199	1,049	1,049	-	-	-	2,253	-	-	-	146,336	9,541	-
2b.1.1.18	Diesel Gen & Auxiliaries (insulated)	-	6	-	-	-	-	-	1	7	-	-	7	-	-	-	-	-	-	185	-
2b.1.1.19	Diesel Gen & Auxiliaries (uninsulated)	-	81	-	-	-	-	-	12	93	-	-	93	-	-	-	-	-	-	2,314	-
2b.1.1.20	Diesel Generator Fuel Oil	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	365	-
2b.1.1.21	Diesel Room HVAC	-	4	-	-	-	-	-	1	5	-	-	5	-	-	-	-	-	-	117	-
2b.1.1.22	Electrical - Clean	-	2,023	-	-	-	-	-	303	2,326	-	-	2,326	-	-	-	-	-	-	56,765	-
2b.1.1.23	Electrical - Contaminated	-	330	40	28	-	266	-	157	821	821	-	-	-	2,073	-	-	-	131,669	7,400	-
2b.1.1.24	Electrical - RCA	-	2,958	361	250	-	2,375	-	1,407	7,352	7,352	-	-	-	18,511	-	-	-	1,175,973	66,381	-
2b.1.1.25	Fire Protection	-	518	-	-	-	-	-	78	596	-	-	596	-	-	-	-	-	-	14,858	-
2b.1.1.26	Leak Rate Test	-	5	1	0	-	4	-	3	14	14	-	-	-	34	-	-	-	2,202	123	-
2b.1.1.27	Misc Plant HVAC (insulated)	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	72	-
2b.1.1.28	Misc Plant HVAC (uninsulated)	-	30	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	955	-
2b.1.1.29	Miscellaneous Equipment	-	7	1	1	-	10	-	5	24	24	-	-	-	75	-	-	-	4,779	178	-
2b.1.1.30	Office & Service HVAC	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	84	-
2b.1.1.31	Potable Water	-	68	-	-	-	-	-	10	78	-	-	78	-	-	-	-	-	-	1,892	-
2b.1.1.32	Primary Plant HVAC (insulated)	-	60	11	8	-	73	-	36	188	188	-	-	-	570	-	-	-	36,188	1,190	-
2b.1.1.33	Primary Plant HVAC (uninsulated)	-	110	26	18	-	168	-	75	397	397	-	-	-	1,312	-	-	-	83,321	2,436	-
2b.1.1.34	Radiation Monitoring	-	4	-	-	-	-	-	1	4	-	-	4	-	-	-	-	-	-	102	-
2b.1.1.35	Safeguards Building HVAC (insulated)	-	18	3	2	-	22	-	11	57	57	-	-	-	174	-	-	-	11,048	360	-
2b.1.1.36	Safeguards Building HVAC (uninsulated)	-	50	8	6	-	52	-	27	144	144	-	-	-	409	-	-	-	25,970	1,164	-
2b.1.1.37	Service Water	-	64	-	-	-	-	-	10	73	-	-	73	-	-	-	-	-	-	1,882	-
2b.1.1.38	Service Water - RCA	-	229	112	70	-	666	-	246	1,323	1,323	-	-	-	5,178	-	-	-	329,913	5,480	-
2b.1.1.39	Turbine Building HVAC (insulated)	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	92	-
2b.1.1.40	Turbine Building HVAC (uninsulated)	-	29	-	-	-	-	-	4	33	-	-	33	-	-	-	-	-	-	840	-
2b.1.1.41	UPS HVAC	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
2b.1.1.42	Vents & Drains	-	38	-	-	-	-	-	6	44	-	-	44	-	-	-	-	-	-	1,092	-
2b.1.1.43	Vents & Drains - RCA	280	496	61	29	-	277	-	344	1,488	1,488	-	-	-	2,118	-	-	-	137,326	15,760	-
2b.1.1.44	Waste Management (insulated)	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	399	-
2b.1.1.45	Waste Management (uninsulated)	-	139	-	-	-	-	-	21	160	-	-	160	-	-	-	-	-	-	4,043	-
2b.1.1.46	Waste Processing Gas (uninsulated)	-	104	35	22	-	213	-	86	461	461	-	-	-	1,658	-	-	-	105,349	2,687	-
2b.1.1.47	Waste Processing Liquid (insulated)	157	312	33	15	-	141	-	198	856	856	-	-	-	1,075	-	-	-	69,909	10,244	-
2b.1.1.48	Waste Processing Liquid (uninsulated)	345	416	101	61	-	580	-	441	1,944	1,944	-	-	-	4,505	-	-	-	287,192	17,449	-
2b.1.1.49	Waste Processing Soild	8	24	9	6	-	56	-	26	129	129	-	-	-	428	-	-	-	27,878	673	-
2b.1.1.50	Water Treatment (insulated)	-	60	-	-	-	-	-	9	69	-	-	69	-	-	-	-	-	-	1,780	-
2b.1.1.51	Water Treatment (uninsulated)	-	639	-	-	-	-	-	96	735	-	-	735	-	-	-	-	-	-	18,716	-
2b.1.1	Totals	790	10,790	1,424	856	-	8,135	-	4,698	26,694	22,110	-	4,584	-	63,039	-	-	-	4,027,302	282,996	-
2b.1.2	Scaffolding in support of decommissioning	-	1,670	32	20	-	186	-	470	2,376	2,376	-	-	-	1,447	-	-	-	91,900	50,323	-
Decontamination of Site Buildings																					
2b.1.3.1	Reactor	1,283	839	113	203	-	1,531	-	1,276	5,245	5,245	-	-	-	18,945	-	-	-	862,451	49,418	-
2b.1.3.2	Auxiliary	847	451	64	150	-	920	-	795	3,227	3,227	-	-	-	12,156	-	-	-	589,032	29,188	-
2b.1.3.3	Radwaste Warehouse	276	30	2	7	-	40	-	157	512	512	-	-	-	571	-	-	-	26,964	7,498	-
2b.1.3.4	Safeguard	164	83	17	24	-	164	-	149	601	601	-	-	-	2,008	-	-	-	98,799	5,673	-
2b.1.3	Totals	2,571	1,403	196	384	-	2,655	-	2,377	9,585	9,585	-	-	-	33,680	-	-	-	1,577,247	91,777	-
2b.1.4	Prepare/submit License Termination Plan	-	-	-	-	-	-	264	40	304	304	-	-	-	-	-	-	-	-	-	1,753
2b.1.5	Receive NRC approval of termination plan									a											
2b.1	Subtotal Period 2b Activity Costs	3,360	13,862	1,652	1,259	-	10,976	264	7,885	39,259	34,676	-	4,584	-	98,166	-	-	-	5,696,449	425,096	1,753
Period 2b Additional Costs																					
2b.2.1	Remedial Action Surveys	-	-	-	-	-	-	2,633	790	3,423	3,423	-	-	-	-	-	-	-	-	48,064	-
2b.2	Subtotal Period 2b Additional Costs	-	-	-	-	-	-	2,633	790	3,423	3,423	-	-	-	-	-	-	-	-	48,064	-
Period 2b Collateral Costs																					
2b.3.1	Process decommissioning water waste	166	-	118	165	-	130	-	152	731	731	-	-	-	990	-	-	-	59,411	193	-
2b.3.2	Process decommissioning chemical flush waste	1	-	37	98	-	76	-	38	250	250	-	-	-	325	-	-	-	34,656	61	-
2b.3.3	Small tool allowance	-	261	-	-	-	-	-	39	300	300	-	-	-	-	-	-	-	-	-	-
2b.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	61,713	9,257	70,970	-	70,970	-	-	-	-	-	-	-	-	-
2b.3.5	Severance	-	-	-	-	-	-	321	48	369	369	-	-	-	-	-	-	-	-	-	-
2b.3	Subtotal Period 2b Collateral Costs	167	261	155	264	-	206	62,033	9,534	72,619	1,650	70,970	-	-	1,315	-	-	-	94,067	254	-
Period 2b Period-Dependent Costs																					
2b.4.1	Decon supplies	2,379	-	-	-	-	-	-	595	2,974	2,974	-	-	-	-	-	-	-	-	-	-
2b.4.2	Insurance	-	-	-	-	-	-	1,201	120	1,321	1,321	-	-	-	-	-	-	-	-	-	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 2b Period-Dependent Costs (continued)																					
2b.4.3	Property taxes	-	-	-	-	-	-	1,040	104	1,144	1,144	-	-	-	-	-	-	-	-	-	-
2b.4.4	Health physics supplies	-	6,463	-	-	-	-	-	1,616	8,079	8,079	-	-	-	-	-	-	-	-	-	-
2b.4.5	Heavy equipment rental	-	6,658	-	-	-	-	-	999	7,657	7,657	-	-	-	-	-	-	-	-	-	-
2b.4.6	Disposal of DAW generated	-	-	122	56	-	129	-	53	360	360	-	-	-	5,923	-	-	-	118,454	193	-
2b.4.7	Plant energy budget	-	-	-	-	-	-	4,195	629	4,825	4,825	-	-	-	-	-	-	-	-	-	-
2b.4.8	NRC Fees	-	-	-	-	-	-	1,279	128	1,407	1,407	-	-	-	-	-	-	-	-	-	-
2b.4.9	Emergency Planning Fees	-	-	-	-	-	-	398	40	438	-	438	-	-	-	-	-	-	-	-	-
2b.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	1,189	178	1,368	-	1,368	-	-	-	-	-	-	-	-	-
2b.4.11	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	600	90	689	689	-	-	-	-	-	-	-	-	-	-
2b.4.12	ISFSI Operating Costs	-	-	-	-	-	-	154	23	177	-	177	-	-	-	-	-	-	-	-	-
2b.4.13	Security Staff Cost	-	-	-	-	-	-	13,713	2,057	15,770	15,770	-	-	-	-	-	-	-	-	-	307,809
2b.4.14	DOC Staff Cost	-	-	-	-	-	-	34,472	5,171	39,642	39,642	-	-	-	-	-	-	-	-	-	351,104
2b.4.15	Utility Staff Cost	-	-	-	-	-	-	54,874	8,231	63,105	63,105	-	-	-	-	-	-	-	-	-	651,707
2b.4	Subtotal Period 2b Period-Dependent Costs	2,379	13,122	122	56	-	129	113,114	20,033	148,955	146,973	1,982	-	-	5,923	-	-	-	118,454	193	1,310,620
2b.0	TOTAL PERIOD 2b COST	5,906	27,244	1,929	1,579	-	11,311	178,044	38,242	264,256	186,721	72,952	4,584	-	105,404	-	-	-	5,908,970	473,607	1,312,373
PERIOD 2d - Decontamination Following Wet Fuel Storage																					
Period 2d Direct Decommissioning Activities																					
2d.1.1	Remove spent fuel racks	290	28	130	41	-	390	-	269	1,148	1,148	-	-	-	3,042	-	-	-	193,246	838	-
Disposal of Plant Systems																					
2d.1.2.1	Electrical - Contaminated FHB	-	76	8	6	-	53	-	34	176	176	-	-	-	412	-	-	-	26,148	1,682	-
2d.1.2.2	Electrical - RCA FHB	-	495	78	52	-	498	-	264	1,387	1,387	-	-	-	3,879	-	-	-	246,432	10,274	-
2d.1.2.3	Fire Protection - RCA	-	851	191	95	-	898	-	470	2,504	2,504	-	-	-	6,893	-	-	-	444,645	18,575	-
2d.1.2.4	Fuel Building HVAC (insulated)	-	26	5	3	-	32	-	16	82	82	-	-	-	248	-	-	-	15,765	514	-
2d.1.2.5	Fuel Building HVAC (uninsulated)	-	33	6	4	-	37	-	19	99	99	-	-	-	290	-	-	-	18,444	684	-
2d.1.2.6	Fuel Handling	-	6	1	1	-	8	-	4	20	20	-	-	-	61	-	-	-	3,891	152	-
2d.1.2.7	Sewage Treatment	-	24	-	-	-	-	-	4	28	-	-	28	-	-	-	-	-	-	678	-
2d.1.2.8	Spent Fuel Pool Cooling & Cleanup	-	947	218	111	-	1,055	-	539	2,869	2,869	-	-	-	8,090	-	-	-	522,128	22,215	-
2d.1.2	Totals	-	2,457	507	272	-	2,580	-	1,349	7,165	7,137	-	28	-	19,873	-	-	-	1,277,454	54,773	-
Decontamination of Site Buildings																					
2d.1.3.1	Fuel	888	967	108	76	-	591	-	856	3,485	3,485	-	-	-	5,884	-	-	-	326,526	43,738	-
2d.1.3	Totals	888	967	108	76	-	591	-	856	3,485	3,485	-	-	-	5,884	-	-	-	326,526	43,738	-
2d.1.4	Scaffolding in support of decommissioning	-	334	6	4	-	37	-	94	475	475	-	-	-	289	-	-	-	18,380	10,065	-
2d.1	Subtotal Period 2d Activity Costs	1,178	3,786	751	392	-	3,598	-	2,567	12,273	12,245	-	28	-	29,088	-	-	-	1,815,615	109,414	-
Period 2d Additional Costs																					
2d.2.1	License Termination Survey Planning	-	-	-	-	-	-	1,236	371	1,607	1,607	-	-	-	-	-	-	-	-	-	6,240
2d.2.2	Operational Tools & Equipment	-	-	11	43	-	218	-	62	333	333	-	-	-	5,850	-	-	-	146,250	16	-
2d.2.3	Excavation of Underground Services	-	1,794	-	-	-	-	757	562	3,113	3,113	-	-	-	-	-	-	-	-	11,945	-
2d.2.4	Remedial Action Surveys	-	-	-	-	-	-	939	282	1,221	1,221	-	-	-	-	-	-	-	-	17,141	-
2d.2	Subtotal Period 2d Additional Costs	-	1,794	11	43	-	218	2,932	1,276	6,274	6,274	-	-	-	5,850	-	-	-	146,250	29,102	6,240
Period 2d Collateral Costs																					
2d.3.1	Process decommissioning water waste	77	-	56	78	-	61	-	71	343	343	-	-	-	466	-	-	-	27,988	91	-
2d.3.2	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2d.3.3	Small tool allowance	-	84	-	-	-	-	-	13	96	96	-	-	-	-	-	-	-	-	-	-
2d.3.4	Decommissioning Equipment Disposition	-	-	116	71	-	679	-	192	1,058	1,058	-	-	-	5,290	-	-	-	336,079	147	-
2d.3.5	Spent Fuel Capital and Transfer	-	-	-	-	-	-	233	35	268	-	268	-	-	-	-	-	-	-	-	-
2d.3.6	Severance	-	-	-	-	-	-	2,137	321	2,457	2,457	-	-	-	-	-	-	-	-	-	-
2d.3	Subtotal Period 2d Collateral Costs	77	84	171	149	-	740	2,370	631	4,223	3,955	268	-	-	5,757	-	-	-	364,067	238	-
Period 2d Period-Dependent Costs																					
2d.4.1	Decon supplies	413	-	-	-	-	-	-	103	517	517	-	-	-	-	-	-	-	-	-	-
2d.4.2	Insurance	-	-	-	-	-	-	428	43	471	471	-	-	-	-	-	-	-	-	-	-
2d.4.3	Property taxes	-	-	-	-	-	-	371	37	408	408	-	-	-	-	-	-	-	-	-	-
2d.4.4	Health physics supplies	-	1,934	-	-	-	-	-	484	2,418	2,418	-	-	-	-	-	-	-	-	-	-
2d.4.5	Heavy equipment rental	-	2,375	-	-	-	-	-	356	2,731	2,731	-	-	-	-	-	-	-	-	-	-
2d.4.6	Disposal of DAW generated	-	-	58	27	-	61	-	25	171	171	-	-	-	2,817	-	-	-	56,341	92	-
2d.4.7	Plant energy budget	-	-	-	-	-	-	798	120	918	918	-	-	-	-	-	-	-	-	-	-
2d.4.8	NRC Fees	-	-	-	-	-	-	438	44	482	482	-	-	-	-	-	-	-	-	-	-
2d.4.9	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	428	64	492	492	-	-	-	-	-	-	-	-	-	-
2d.4.10	ISFSI Operating Costs	-	-	-	-	-	-	55	8	63	-	63	-	-	-	-	-	-	-	-	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 2d Period-Dependent Costs (continued)																					
2d.4.11	Security Staff Cost	-	-	-	-	-	-	1,609	241	1,851	663	1,188	-	-	-	-	-	-	-	-	36,020
2d.4.12	DOC Staff Cost	-	-	-	-	-	-	8,423	1,263	9,686	9,686	-	-	-	-	-	-	-	-	-	85,764
2d.4.13	Utility Staff Cost	-	-	-	-	-	-	14,087	2,113	16,201	15,439	761	-	-	-	-	-	-	-	-	163,810
2d.4	Subtotal Period 2d Period-Dependent Costs	413	4,309	58	27	-	61	26,638	4,902	36,408	34,395	2,013	-	-	2,817	-	-	-	56,341	92	285,594
2d.0	TOTAL PERIOD 2d COST	1,669	9,973	992	611	-	4,618	31,939	9,376	59,177	56.869	2,280	28	-	43.512	-	-	-	2,382.273	138,847	291,834
PERIOD 2f - License Termination																					
Period 2f Direct Decommissioning Activities																					
2f.1.1	ORISE confirmatory survey	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
2f.1.2	Terminate license									a											
2f.1	Subtotal Period 2f Activity Costs	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
Period 2f Additional Costs																					
2f.2.1	License Termination Survey	-	-	-	-	-	-	7,338	2,202	9,540	9.540	-	-	-	-	-	-	-	-	153,524	3,120
2f.2	Subtotal Period 2f Additional Costs	-	-	-	-	-	-	7,338	2,202	9,540	9.540	-	-	-	-	-	-	-	-	153,524	3,120
Period 2f Collateral Costs																					
2f.3.1	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2.281	-	-	-	-	-	-	-	-	-	-
2f.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	232	35	266	-	266	-	-	-	-	-	-	-	-	-
2f.3.3	Severance	-	-	-	-	-	-	5,048	757	5,805	5,805	-	-	-	-	-	-	-	-	-	-
2f.3	Subtotal Period 2f Collateral Costs	-	-	-	-	-	-	7,263	1,089	8,353	8,086	266	-	-	-	-	-	-	-	-	-
Period 2f Period-Dependent Costs																					
2f.4.1	Insurance	-	-	-	-	-	-	391	39	430	430	-	-	-	-	-	-	-	-	-	-
2f.4.2	Property taxes	-	-	-	-	-	-	339	34	373	373	-	-	-	-	-	-	-	-	-	-
2f.4.3	Health physics supplies	-	1,429	-	-	-	-	-	357	1,786	1.786	-	-	-	-	-	-	-	-	-	-
2f.4.4	Disposal of DAW generated	-	-	7	3	-	7	-	3	20	20	-	-	-	337	-	-	-	6.734	11	-
2f.4.5	Plant energy budget	-	-	-	-	-	-	365	55	419	419	-	-	-	-	-	-	-	-	-	-
2f.4.6	NRC Fees	-	-	-	-	-	-	414	41	455	455	-	-	-	-	-	-	-	-	-	-
2f.4.7	ISFSI Operating Costs	-	-	-	-	-	-	50	8	58	-	58	-	-	-	-	-	-	-	-	-
2f.4.8	Security Staff Cost	-	-	-	-	-	-	1,470	221	1,691	605	1,086	-	-	-	-	-	-	-	-	32,909
2f.4.9	DOC Staff Cost	-	-	-	-	-	-	4,608	691	5,299	5,299	-	-	-	-	-	-	-	-	-	46,622
2f.4.10	Utility Staff Cost	-	-	-	-	-	-	5,212	782	5,994	5,442	551	-	-	-	-	-	-	-	-	59,942
2f.4	Subtotal Period 2f Period-Dependent Costs	-	1,429	7	3	-	7	12,848	2,230	16,525	14,831	1,695	-	-	337	-	-	-	6,734	11	139,473
2f.0	TOTAL PERIOD 2f COST	-	1,429	7	3	-	7	27,630	5,575	34,652	32.691	1,961	-	-	337	-	-	-	6.734	153,535	142,593
PERIOD 2 TOTALS		9,915	80,585	30.361	9.352	-	57,587	354,789	107,811	650,400	534.731	106,796	8,873	-	423.956	963	337	-	25,971.820	1.195,639	2.740,959
PERIOD 3b - Site Restoration																					
Period 3b Direct Decommissioning Activities																					
Demolition of Remaining Site Buildings																					
3b.1.1.1	Reactor	-	3,303	-	-	-	-	-	496	3,799	-	-	3,799	-	-	-	-	-	-	31,617	-
3b.1.1.2	Administration	-	93	-	-	-	-	-	14	107	-	-	107	-	-	-	-	-	-	1,232	-
3b.1.1.3	Auxiliary	-	2,467	-	-	-	-	-	370	2,837	-	-	2,837	-	-	-	-	-	-	18,402	-
3b.1.1.4	Chlorination (CW Intake)	-	18	-	-	-	-	-	3	20	-	-	20	-	-	-	-	-	-	307	-
3b.1.1.5	Chlorination (SW Intake)	-	6	-	-	-	-	-	1	7	-	-	7	-	-	-	-	-	-	95	-
3b.1.1.6	Circ Water Intake	-	731	-	-	-	-	-	110	841	-	-	841	-	-	-	-	-	-	5,446	-
3b.1.1.7	Circ Water Yard Piping	-	23	-	-	-	-	-	3	26	-	-	26	-	-	-	-	-	-	36	-
3b.1.1.8	Diesel Generator	-	455	-	-	-	-	-	68	523	-	-	523	-	-	-	-	-	-	4,210	-
3b.1.1.9	Fencing Vehicle Barriers BREs	-	1,226	-	-	-	-	-	184	1,409	-	-	1,409	-	-	-	-	-	-	8,307	-
3b.1.1.10	Flex Storage Buiding	-	558	-	-	-	-	-	84	642	-	-	642	-	-	-	-	-	-	3,621	-
3b.1.1.11	Maintenance	-	180	-	-	-	-	-	27	207	-	-	207	-	-	-	-	-	-	2,403	-
3b.1.1.12	Megawatt Support Ctr & Material Staging	-	263	-	-	-	-	-	40	303	-	-	303	-	-	-	-	-	-	3,909	-
3b.1.1.13	Miscellaneous Site Structures	-	7,631	-	-	-	-	-	1,145	8,776	-	-	8,776	-	-	-	-	-	-	98,785	-
3b.1.1.14	RP Building	-	57	-	-	-	-	-	8	65	-	-	65	-	-	-	-	-	-	732	-
3b.1.1.15	Radwaste Warehouse	-	174	-	-	-	-	-	26	201	-	-	201	-	-	-	-	-	-	3,171	-
3b.1.1.16	Safeguard	-	1,302	-	-	-	-	-	195	1,497	-	-	1,497	-	-	-	-	-	-	10,725	-
3b.1.1.17	Service Water Intake Structure	-	309	-	-	-	-	-	46	355	-	-	355	-	-	-	-	-	-	2,370	-
3b.1.1.18	Stator Rewind	-	130	-	-	-	-	-	20	150	-	-	150	-	-	-	-	-	-	2,030	-
3b.1.1.19	Switchgear	-	91	-	-	-	-	-	14	104	-	-	104	-	-	-	-	-	-	795	-
3b.1.1.20	Switchyard Relay House	-	19	-	-	-	-	-	3	21	-	-	21	-	-	-	-	-	-	290	-
3b.1.1.21	Tanks & Tunnels	-	572	-	-	-	-	-	86	657	-	-	657	-	-	-	-	-	-	7,676	-
3b.1.1.22	Turbine	-	575	-	-	-	-	-	86	661	-	-	661	-	-	-	-	-	-	7,230	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Demolition of Remaining Site Buildings (continued)																					
3b.1.1.23	Turbine Pedestal	-	687	-	-	-	-	-	96	782	-	-	782	-	-	-	-	-	-	4,159	-
3b.1.1.24	Fuel	-	2,709	-	-	-	-	-	406	3,116	-	-	3,116	-	-	-	-	-	-	27,877	-
3b.1.1	Totals	-	23,526	-	-	-	-	-	3,529	27,055	-	-	27,055	-	-	-	-	-	-	245,427	-
Site Closeout Activities																					
3b.1.2	BackFill Site	-	2,577	-	-	-	-	-	387	2,964	-	-	2,964	-	-	-	-	-	-	5,886	-
3b.1.3	Grade & landscape site	-	462	-	-	-	-	-	69	532	-	-	532	-	-	-	-	-	-	1,292	-
3b.1.4	Final report to NRC	-	-	-	-	-	-	101	15	116	116	-	-	-	-	-	-	-	-	-	668
3b.1	Subtotal Period 3b Activity Costs	-	26,566	-	-	-	-	101	4,000	30,667	116	-	30,551	-	-	-	-	-	-	252,605	668
Period 3b Additional Costs																					
3b.2.1	Concrete Crushing	-	1,670	-	-	-	-	15	253	1,937	-	-	1,937	-	-	-	-	-	-	7,552	-
3b.2.2	Construction Debris	-	-	-	-	-	-	2,802	420	3,222	-	-	3,222	-	-	-	-	-	-	-	-
3b.2.3	Service Water Cofferdam	-	459	-	-	-	-	-	69	528	-	-	528	-	-	-	-	-	-	3,811	-
3b.2.4	Circulating Water Cofferdam	-	474	-	-	-	-	-	71	545	-	-	545	-	-	-	-	-	-	3,941	-
3b.2.5	Firing Range	-	33	-	-	-	-	66	15	114	-	-	114	-	-	-	-	-	-	237	-
3b.2	Subtotal Period 3b Additional Costs	-	2,636	-	-	-	-	2,882	828	6,346	-	-	6,346	-	-	-	-	-	-	15,542	-
Period 3b Collateral Costs																					
3b.3.1	Small tool allowance	-	169	-	-	-	-	-	25	194	-	-	194	-	-	-	-	-	-	-	-
3b.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	799	120	919	-	919	-	-	-	-	-	-	-	-	-
3b.3	Subtotal Period 3b Collateral Costs	-	169	-	-	-	-	799	145	1,113	-	919	194	-	-	-	-	-	-	-	-
Period 3b Period-Dependent Costs																					
3b.4.1	Insurance	-	-	-	-	-	-	519	52	571	-	-	571	-	-	-	-	-	-	-	-
3b.4.2	Property taxes	-	-	-	-	-	-	899	90	989	-	989	-	-	-	-	-	-	-	-	-
3b.4.3	Heavy equipment rental	-	7,880	-	-	-	-	-	1,182	9,062	-	-	9,062	-	-	-	-	-	-	-	-
3b.4.4	Plant energy budget	-	-	-	-	-	-	484	73	556	-	-	556	-	-	-	-	-	-	-	-
3b.4.5	NRC ISFSI Fees	-	-	-	-	-	-	490	49	539	-	539	-	-	-	-	-	-	-	-	-
3b.4.6	ISFSI Operating Costs	-	-	-	-	-	-	133	20	153	-	153	-	-	-	-	-	-	-	-	-
3b.4.7	Security Staff Cost	-	-	-	-	-	-	3,903	585	4,489	(0)	2,882	1,607	-	-	-	-	-	-	-	87,358
3b.4.8	DOC Staff Cost	-	-	-	-	-	-	11,197	1,680	12,877	-	-	12,877	-	-	-	-	-	-	-	110,240
3b.4.9	Utility Staff Cost	-	-	-	-	-	-	6,013	902	6,914	0	1,459	5,455	-	-	-	-	-	-	-	70,200
3b.4	Subtotal Period 3b Period-Dependent Costs	-	7,880	-	-	-	-	23,638	4,632	36,150	0	6,021	30,129	-	-	-	-	-	-	-	267,798
3b.0	TOTAL PERIOD 3b COST	-	37,251	-	-	-	-	27,420	9,605	74,276	116	6,940	67,220	-	-	-	-	-	-	268,147	268,465
PERIOD 3c - Fuel Storage Operations/Shipping																					
Period 3c Collateral Costs																					
3c.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	20,936	3,140	24,077	-	24,077	-	-	-	-	-	-	-	-	-
3c.3	Subtotal Period 3c Collateral Costs	-	-	-	-	-	-	20,936	3,140	24,077	-	24,077	-	-	-	-	-	-	-	-	-
Period 3c Period-Dependent Costs																					
3c.4.1	Insurance	-	-	-	-	-	-	13,721	1,372	15,093	-	15,093	-	-	-	-	-	-	-	-	-
3c.4.2	Property taxes	-	-	-	-	-	-	23,761	2,376	26,137	-	26,137	-	-	-	-	-	-	-	-	-
3c.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3c.4.4	NRC ISFSI Fees	-	-	-	-	-	-	12,949	1,295	14,244	-	14,244	-	-	-	-	-	-	-	-	-
3c.4.5	ISFSI Operating Costs	-	-	-	-	-	-	3,512	527	4,039	-	4,039	-	-	-	-	-	-	-	-	-
3c.4.6	Security Staff Cost	-	-	-	-	-	-	66,162	9,924	76,086	-	76,086	-	-	-	-	-	-	-	-	1,428,636
3c.4.7	Utility Staff Cost	-	-	-	-	-	-	33,515	5,027	38,543	-	38,543	-	-	-	-	-	-	-	-	370,906
3c.4	Subtotal Period 3c Period-Dependent Costs	-	-	-	-	-	-	153,620	20,521	174,142	-	174,142	-	-	-	-	-	-	-	-	1,799,542
3c.0	TOTAL PERIOD 3c COST	-	-	-	-	-	-	174,557	23,662	198,219	-	198,219	-	-	-	-	-	-	-	-	1,799,542
PERIOD 3d - GTCC shipping																					
Period 3d Direct Decommissioning Activities																					
Nuclear Steam Supply System Removal																					
3d.1.1.1	Vessel & Internals GTCC Disposal	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
3d.1.1	Totals	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
3d.1	Subtotal Period 3d Activity Costs	-	-	1,000	-	-	10,532	-	1,830	13,362	13,362	-	-	-	-	-	-	2,061	401,974	-	-
Period 3d Period-Dependent Costs																					
3d.4.1	Insurance	-	-	-	-	-	-	10	1	11	11	-	-	-	-	-	-	-	-	-	-
3d.4.2	Property taxes	-	-	-	-	-	-	17	2	19	19	-	-	-	-	-	-	-	-	-	-
3d.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3d.4.4	NRC ISFSI Fees	-	-	-	-	-	-	7	1	8	-	8	-	-	-	-	-	-	-	-	-

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Period 3d Period-Dependent Costs (continued)																					
3d.4.5	ISFSI Operating Costs	-	-	-	-	-	-	3	0	3	-	3	-	-	-	-	-	-	-	-	-
3d.4.6	Security Staff Cost	-	-	-	-	-	-	48	7	55	55	-	-	-	-	-	-	-	-	-	1,037
3d.4.7	Utility Staff Cost	-	-	-	-	-	-	24	4	28	28	-	-	-	-	-	-	-	-	-	269
3d.4	Subtotal Period 3d Period-Dependent Costs	-	-	-	-	-	-	109	15	124	113	11	-	-	-	-	-	-	-	-	1,306
3d.0	TOTAL PERIOD 3d COST	-	-	1,000	-	-	10,532	109	1,844	13,485	13,475	11	-	-	-	-	-	2,061	401,974	-	1,306
PERIOD 3e - ISFSI Decontamination																					
Period 3e Additional Costs																					
3e.2.1	License Termination ISFSI	-	475	205	506	-	3,229	2,471	1,746	8,732	8,732	-	-	-	20,829	-	-	-	2,015,971	14,285	1,293
3e.2	Subtotal Period 3e Additional Costs	-	475	205	506	-	3,229	2,471	1,746	8,732	8,732	-	-	-	20,829	-	-	-	2,015,971	14,285	1,293
Period 3e Period-Dependent Costs																					
3e.4.1	Insurance	-	-	-	-	-	-	61	15	77	77	-	-	-	-	-	-	-	-	-	-
3e.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3e.4.3	Plant energy budget	-	-	-	-	-	-	8	2	10	10	-	-	-	-	-	-	-	-	-	-
3e.4.4	Security Staff Cost	-	-	-	-	-	-	117	29	146	146	-	-	-	-	-	-	-	-	-	2,479
3e.4.5	Utility Staff Cost	-	-	-	-	-	-	172	43	215	215	-	-	-	-	-	-	-	-	-	1,881
3e.4	Subtotal Period 3e Period-Dependent Costs	-	-	-	-	-	-	358	89	447	447	-	-	-	-	-	-	-	-	-	4,359
3e.0	TOTAL PERIOD 3e COST	-	475	205	506	-	3,229	2,829	1,836	9,179	9,179	-	-	-	20,829	-	-	-	2,015,971	14,285	5,652
PERIOD 3f - ISFSI Site Restoration																					
Period 3f Additional Costs																					
3f.2.1	Demolition and Site Restoration ISFSI	-	6,261	-	-	-	-	35	944	7,240	-	-	7,240	-	-	-	-	-	-	51,188	80
3f.2	Subtotal Period 3f Additional Costs	-	6,261	-	-	-	-	35	944	7,240	-	-	7,240	-	-	-	-	-	-	51,188	80
Period 3f Collateral Costs																					
3f.3.1	Small tool allowance	-	73	-	-	-	-	-	11	84	-	-	84	-	-	-	-	-	-	-	-
3f.3	Subtotal Period 3f Collateral Costs	-	73	-	-	-	-	-	11	84	-	-	84	-	-	-	-	-	-	-	-
Period 3f Period-Dependent Costs																					
3f.4.1	Insurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3f.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3f.4.3	Plant energy budget	-	-	-	-	-	-	4	1	5	-	-	5	-	-	-	-	-	-	-	-
3f.4.4	Security Staff Cost	-	-	-	-	-	-	58	9	67	-	-	67	-	-	-	-	-	-	-	1,239
3f.4.5	Utility Staff Cost	-	-	-	-	-	-	71	11	82	-	-	82	-	-	-	-	-	-	-	769
3f.4	Subtotal Period 3f Period-Dependent Costs	-	-	-	-	-	-	133	20	153	-	-	153	-	-	-	-	-	-	-	2,009
3f.0	TOTAL PERIOD 3f COST	-	6,334	-	-	-	-	168	975	7,477	-	-	7,477	-	-	-	-	-	-	51,188	2,089
PERIOD 3 TOTALS		-	44,060	1,205	506	-	13,761	205,083	37,923	302,637	22,770	205,170	74,698	-	20,829	-	-	2,061	2,417,945	323,620	2,077,054
TOTAL COST TO DECOMMISSION		14,935	129,001	31,823	10,183	-	72,375	667,251	164,205	1,089,873	691,713	313,790	84,370	-	445,556	1,827	337	2,061	28,520,700	1,544,377	5,766,886

Table C-2
Comanche Peak Nuclear Power Plant Unit 2
DECON Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours

TOTAL COST TO DECOMMISSION WITH 17.74% CONTINGENCY:	$1,089,873	thousands of 2024 dollars
TOTAL NRC LICENSE TERMINATION COST IS 63.47% OR:	$691,713	thousands of 2024 dollars
SPENT FUEL MANAGEMENT COST IS 28.79% OR:	$313,790	thousands of 2024 dollars
NON-NUCLEAR DEMOLITION COST IS 7.74% OR:	$84,370	thousands of 2024 dollars
TOTAL LOW-LEVEL RADIOACTIVE WASTE VOLUME BURIED (EXCLUDING GTCC):	447,719	Cubic Feet
TOTAL GREATER THAN CLASS C RADWASTE VOLUME GENERATED:	2,061	Cubic Feet
TOTAL SCRAP METAL REMOVED:	95,151	Tons
TOTAL CRAFT LABOR REQUIREMENTS:	1,544,377	Man-hours

End Notes:
n/a - indicates that this activity not charged as decommissioning expense
a - indicates that this activity performed by decommissioning staff
0 - indicates that this value is less than 0.5 but is non-zero
A cell containing " - " indicates a zero value

APPENDIX D

DETAILED COST ESTIMATES

SAFSTOR

Page

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 1a - Shutdown through Transition																					
Period 1a Direct Decommissioning Activities																					
1a.1.1	SAFSTOR site characterization survey	-	-	-	-	-	-	421	126	547	547	-	-	-	-	-	-	-	-	-	-
1a.1.2	Prepare preliminary decommissioning cost	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
1a.1.3	Notification of Cessation of Operations									a											
1a.1.4	Remove fuel & source material									n/a											
1a.1.5	Notification of Permanent Defueling									a											
1a.1.6	Deactivate plant systems & process waste									a											
1a.1.7	Prepare and submit PSDAR	-	-	-	-	-	-	302	45	347	347	-	-	-	-	-	-	-	-	-	2,000
1a.1.8	Review plant dwgs & specs.	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
1a.1.9	Perform detailed rad survey									a											
1a.1.10	Estimate by-product inventory	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1a.1.11	End product description	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1a.1.12	Detailed by-product inventory	-	-	-	-	-	-	226	34	260	260	-	-	-	-	-	-	-	-	-	1,500
1a.1.13	Define major work sequence	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
1a.1.14	Perform SER and EA	-	-	-	-	-	-	467	70	538	538	-	-	-	-	-	-	-	-	-	3,100
1a.1.15	Perform Site-Specific Cost Study	-	-	-	-	-	-	754	113	867	867	-	-	-	-	-	-	-	-	-	5,000
Activity Specifications																					
1a.1.16.1	Prepare plant and facilities for SAFSTOR	-	-	-	-	-	-	742	111	853	853	-	-	-	-	-	-	-	-	-	4,920
1a.1.16.2	Plant systems	-	-	-	-	-	-	628	94	722	722	-	-	-	-	-	-	-	-	-	4,167
1a.1.16.3	Plant structures and buildings	-	-	-	-	-	-	470	71	541	541	-	-	-	-	-	-	-	-	-	3,120
1a.1.16.4	Waste management	-	-	-	-	-	-	302	45	347	347	-	-	-	-	-	-	-	-	-	2,000
1a.1.16.5	Facility and site dormancy	-	-	-	-	-	-	302	45	347	347	-	-	-	-	-	-	-	-	-	2,000
1a.1.16	Total	-	-	-	-	-	-	2,444	367	2,810	2,810	-	-	-	-	-	-	-	-	-	16,207
Detailed Work Procedures																					
1a.1.17.1	Plant systems	-	-	-	-	-	-	178	27	205	205	-	-	-	-	-	-	-	-	-	1,183
1a.1.17.2	Facility closeout & dormancy	-	-	-	-	-	-	181	27	208	208	-	-	-	-	-	-	-	-	-	1,200
1a.1.17	Total	-	-	-	-	-	-	359	54	413	413	-	-	-	-	-	-	-	-	-	2,383
1a.1.18	Procure vacuum drying system	-	-	-	-	-	-	15	2	17	17	-	-	-	-	-	-	-	-	-	100
1a.1.19	Drain/de-energize non-cont. systems									a											
1a.1.20	Drain & dry NSSS									a											
1a.1.21	Drain/de-energize contaminated systems									a											
1a.1.22	Decon/secure contaminated systems									a											
1a.1	Subtotal Period 1a Activity Costs	-	-	-	-	-	-	5,832	938	6,770	6,770	-	-	-	-	-	-	-	-	-	35,890
Period 1a Collateral Costs																					
1a.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	1,991	299	2,289	-	2,289	-	-	-	-	-	-	-	-	-
1a.3	Subtotal Period 1a Collateral Costs	-	-	-	-	-	-	1,991	299	2,289	-	2,289	-	-	-	-	-	-	-	-	-
Period 1a Period-Dependent Costs																					
1a.4.1	Insurance	-	-	-	-	-	-	2,446	245	2,691	2,691	-	-	-	-	-	-	-	-	-	-
1a.4.2	Property taxes	-	-	-	-	-	-	5,300	530	5,830	5,830	-	-	-	-	-	-	-	-	-	-
1a.4.3	Health physics supplies	-	962	-	-	-	-	-	240	1,202	1,202	-	-	-	-	-	-	-	-	-	-
1a.4.4	Heavy equipment rental	-	899	-	-	-	-	-	135	1,033	1,033	-	-	-	-	-	-	-	-	-	-
1a.4.5	Disposal of DAW generated	-	-	13	6	-	13	-	5	37	37	-	-	-	610	-	-	-	12,190	20	-
1a.4.6	Plant energy budget	-	-	-	-	-	-	2,419	363	2,782	2,782	-	-	-	-	-	-	-	-	-	-
1a.4.7	NRC Fees	-	-	-	-	-	-	1,182	118	1,300	1,300	-	-	-	-	-	-	-	-	-	-
1a.4.8	Emergency Planning Fees	-	-	-	-	-	-	499	50	549	-	549	-	-	-	-	-	-	-	-	-
1a.4.9	Spent Fuel Pool O&M	-	-	-	-	-	-	514	77	591	-	591	-	-	-	-	-	-	-	-	-
1a.4.10	ISFSI Operating Costs	-	-	-	-	-	-	66	10	76	-	76	-	-	-	-	-	-	-	-	-
1a.4.11	Security Staff Cost	-	-	-	-	-	-	5,930	890	6,820	6,820	-	-	-	-	-	-	-	-	-	133,116
1a.4.12	Utility Staff Cost	-	-	-	-	-	-	34,338	5,151	39,489	39,489	-	-	-	-	-	-	-	-	-	422,240
1a.4	Subtotal Period 1a Period-Dependent Costs	-	1,861	13	6	-	13	52,695	7,814	62,401	61,184	1,217	-	-	610	-	-	-	12,190	20	555,356
1a.0	TOTAL PERIOD 1a COST	-	1,861	13	6	-	13	60,518	9,050	71,461	67,955	3,506	-	-	610	-	-	-	12,190	20	591,246
PERIOD 1b - SAFSTOR Limited DECON Activities																					
Period 1b Direct Decommissioning Activities																					
Decontamination of Site Buildings																					
1b.1.1.1	Reactor	1,269	-	-	-	-	-	-	635	1,904	1,904	-	-	-	-	-	-	-	-	30,861	-
1b.1.1.2	Safeguard	157	-	-	-	-	-	-	79	236	236	-	-	-	-	-	-	-	-	3,960	-
1b.1.1	Totals	1,426	-	-	-	-	-	-	713	2,140	2,140	-	-	-	-	-	-	-	-	34,821	-

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
1b.1	Subtotal Period 1b Activity Costs	1.426	-	-	-	-	-	-	713	2.140	2,140	-	-	-	-	-	-	-	-	34,821	-
Period 1b Additional Costs																					
1b.2.1	Spent Fuel Pool Isolation	-	-	-	-	-	-	15,055	2,258	17,313	17,313	-	-	-	-	-	-	-	-	-	-
1b.2	Subtotal Period 1b Additional Costs	-	-	-	-	-	-	15,055	2,258	17,313	17,313	-	-	-	-	-	-	-	-	-	-
Period 1b Collateral Costs																					
1b.3.1	Decon equipment	1,253	-	-	-	-	-	-	188	1.441	1,441	-	-	-	-	-	-	-	-	-	-
1b.3.2	Process decommissioning water waste	188	-	128	180	-	141	-	169	807	807	-	-	-	1,077	-	-	-	64.594	210	-
1b.3.3	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1b.3.4	Small tool allowance	-	22	-	-	-	-	-	3	26	26	-	-	-	-	-	-	-	-	-	-
1b.3.5	Spent Fuel Capital and Transfer	-	-	-	-	-	-	4,767	715	5,482	-	5,482	-	-	-	-	-	-	-	-	-
1b.3	Subtotal Period 1b Collateral Costs	1,441	22	128	180	-	141	4,767	1,076	7,756	2,274	5,482	-	-	1,077	-	-	-	64,594	210	-
Period 1b Period-Dependent Costs																					
1b.4.1	Decon supplies	1,009	-	-	-	-	-	-	252	1,261	1,261	-	-	-	-	-	-	-	-	-	-
1b.4.2	Insurance	-	-	-	-	-	-	610	61	671	671	-	-	-	-	-	-	-	-	-	-
1b.4.3	Property taxes	-	-	-	-	-	-	1.197	120	1.316	1,316	-	-	-	-	-	-	-	-	-	-
1b.4.4	Health physics supplies	-	552	-	-	-	-	-	138	690	690	-	-	-	-	-	-	-	-	-	-
1b.4.5	Heavy equipment rental	-	224	-	-	-	-	-	34	258	258	-	-	-	-	-	-	-	-	-	-
1b.4.6	Disposal of DAW generated	-	-	11	5	-	11	-	5	32	32	-	-	-	525	-	-	-	10.506	17	-
1b.4.7	Plant energy budget	-	-	-	-	-	-	603	90	694	694	-	-	-	-	-	-	-	-	-	-
1b.4.8	NRC Fees	-	-	-	-	-	-	224	22	247	247	-	-	-	-	-	-	-	-	-	-
1b.4.9	Emergency Planning Fees	-	-	-	-	-	-	124	12	137	-	137	-	-	-	-	-	-	-	-	-
1b.4.10	Spent Fuel Pool O&M	-	-	-	-	-	-	128	19	147	-	147	-	-	-	-	-	-	-	-	-
1b.4.11	ISFSI Operating Costs	-	-	-	-	-	-	17	2	19	-	19	-	-	-	-	-	-	-	-	-
1b.4.12	Security Staff Cost	-	-	-	-	-	-	1,478	222	1,700	1,700	-	-	-	-	-	-	-	-	-	33,188
1b.4.13	Utility Staff Cost	-	-	-	-	-	-	8.561	1,284	9.845	9,845	-	-	-	-	-	-	-	-	-	105,271
1b.4	Subtotal Period 1b Period-Dependent Costs	1.009	776	11	5	-	11	12.943	2,262	17.018	16,714	303	-	-	525	-	-	-	10.506	17	138,459
1b.0	TOTAL PERIOD 1b COST	3.877	799	139	185	-	153	32.765	6,309	44.226	38,441	5.786	-	-	1,602	-	-	-	75.101	35,048	138,459
PERIOD 1c - Preparations for SAFSTOR Dormancy																					
Period 1c Direct Decommissioning Activities																					
1c.1.1	Prepare support equipment for storage	-	488	-	-	-	-	-	73	561	561	-	-	-	-	-	-	-	-	3,000	-
1c.1.2	Install containment pressure equal. lines	-	29	-	-	-	-	-	4	34	34	-	-	-	-	-	-	-	-	700	-
1c.1.3	Interim survey prior to dormancy	-	-	-	-	-	-	733	220	953	953	-	-	-	-	-	-	-	-	12,593	-
1c.1.4	Secure building accesses									a											
1c.1.5	Prepare & submit interim report	-	-	-	-	-	-	88	13	101	101	-	-	-	-	-	-	-	-	-	583
1c.1	Subtotal Period 1c Activity Costs	-	517	-	-	-	-	821	311	1,648	1,648	-	-	-	-	-	-	-	-	16,293	583
Period 1c Collateral Costs																					
1c.3.1	Process decommissioning water waste	228	-	155	218	-	171	-	205	976	976	-	-	-	1,303	-	-	-	78,201	254	-
1c.3.2	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1c.3.3	Small tool allowance	-	3	-	-	-	-	-	0	3	3	-	-	-	-	-	-	-	-	-	-
1c.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	4.767	715	5.482	-	5.482	-	-	-	-	-	-	-	-	-
1c.3	Subtotal Period 1c Collateral Costs	228	3	155	218	-	171	4.767	920	6.462	980	5.482	-	-	1,303	-	-	-	78.201	254	-
Period 1c Period-Dependent Costs																					
1c.4.1	Insurance	-	-	-	-	-	-	610	61	671	671	-	-	-	-	-	-	-	-	-	-
1c.4.2	Property taxes	-	-	-	-	-	-	1,197	120	1,316	1,316	-	-	-	-	-	-	-	-	-	-
1c.4.3	Health physics supplies	-	387	-	-	-	-	-	97	484	484	-	-	-	-	-	-	-	-	-	-
1c.4.4	Heavy equipment rental	-	224	-	-	-	-	-	34	258	258	-	-	-	-	-	-	-	-	-	-
1c.4.5	Disposal of DAW generated	-	-	3	1	-	3	-	1	9	9	-	-	-	152	-	-	-	3,039	5	-
1c.4.6	Plant energy budget	-	-	-	-	-	-	603	90	694	694	-	-	-	-	-	-	-	-	-	-
1c.4.7	NRC Fees	-	-	-	-	-	-	224	22	247	247	-	-	-	-	-	-	-	-	-	-
1c.4.8	Emergency Planning Fees	-	-	-	-	-	-	124	12	137	-	137	-	-	-	-	-	-	-	-	-
1c.4.9	Spent Fuel Pool O&M	-	-	-	-	-	-	128	19	147	-	147	-	-	-	-	-	-	-	-	-
1c.4.10	ISFSI Operating Costs	-	-	-	-	-	-	17	2	19	-	19	-	-	-	-	-	-	-	-	-
1c.4.11	Security Staff Cost	-	-	-	-	-	-	1,478	222	1,700	1,700	-	-	-	-	-	-	-	-	-	33,188
1c.4.12	Utility Staff Cost	-	-	-	-	-	-	8,561	1,284	9,845	9,845	-	-	-	-	-	-	-	-	-	105,271
1c.4	Subtotal Period 1c Period-Dependent Costs	-	611	3	1	-	3	12,943	1,965	15,527	15,224	303	-	-	152	-	-	-	3,039	5	138,459
1c.0	TOTAL PERIOD 1c COST	228	1,131	158	219	-	175	18,531	3,196	23,638	17,852	5,786	-	-	1,455	-	-	-	81,240	16,552	139,042
PERIOD 1 TOTALS		4.104	3,790	310	410	-	341	111.814	18,556	139.325	124,247	15.078	-	-	3,667	-	-	-	168.531	51,620	868,717

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 2a - SAFSTOR Dormancy with Wet Spent Fuel Storage																					
Period 2a Direct Decommissioning Activities																					
2a.1.1	Quarterly Inspection									a											
2a.1.2	Semi-annual environmental survey									a											
2a.1.3	Prepare reports									a											
2a.1.4	Bituminous roof replacement	-	-	-	-	-	-	4	1	5	5	-	-	-	-	-	-	-	-	-	-
2a.1.5	Maintenance supplies	-	-	-	-	-	-	1,146	287	1,433	1,433	-	-	-	-	-	-	-	-	-	-
2a.1	Subtotal Period 2a Activity Costs	-	-	-	-	-	-	1,150	287	1,437	1,437	-	-	-	-	-	-	-	-	-	-
Period 2a Additional Costs																					
2a.2.1	Asbestos Abatement	-	-	-	-	-	-	1,000	150	1,150	-	-	1,150	-	-	-	-	-	-	-	-
2a.2.2	Mixed Waste Disposal	-	-	-	-	-	-	50	8	58	58	-	-	-	-	-	-	-	-	-	-
2a.2	Subtotal Period 2a Additional Costs	-	-	-	-	-	-	1,050	158	1,208	58	-	1,150	-	-	-	-	-	-	-	-
Period 2a Collateral Costs																					
2a.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	84,083	12,612	96,695	-	96,695	-	-	-	-	-	-	-	-	-
2a.3.2	Severance	-	-	-	-	-	-	10,079	1,512	11,591	11,591	-	-	-	-	-	-	-	-	-	-
2a.3	Subtotal Period 2a Collateral Costs	-	-	-	-	-	-	94,162	14,124	108,286	11,591	96,695	-	-	-	-	-	-	-	-	-
Period 2a Period-Dependent Costs																					
2a.4.1	Insurance	-	-	-	-	-	-	3,629	363	3,991	3,991	-	-	-	-	-	-	-	-	-	-
2a.4.2	Property taxes	-	-	-	-	-	-	9,219	922	10,141	10,141	-	-	-	-	-	-	-	-	-	-
2a.4.3	Health physics supplies	-	2,426	-	-	-	-	-	607	3,033	3,033	-	-	-	-	-	-	-	-	-	-
2a.4.4	Disposal of DAW generated	-	-	29	13	-	30	-	12	85	85	-	-	-	1,895	-	-	-	27,909	46	-
2a.4.5	Plant energy budget	-	-	-	-	-	-	3,380	507	3,887	3,887	-	-	-	-	-	-	-	-	-	-
2a.4.6	NRC Fees	-	-	-	-	-	-	2,792	279	3,072	3,072	-	-	-	-	-	-	-	-	-	-
2a.4.7	Emergency Planning Fees	-	-	-	-	-	-	1,202	120	1,322	-	1,322	-	-	-	-	-	-	-	-	-
2a.4.8	Spent Fuel Pool O&M	-	-	-	-	-	-	3,593	539	4,132	-	4,132	-	-	-	-	-	-	-	-	-
2a.4.9	ISFSI Operating Costs	-	-	-	-	-	-	464	70	534	-	534	-	-	-	-	-	-	-	-	-
2a.4.10	Security Staff Cost	-	-	-	-	-	-	41,430	6,215	47,645	37,592	10,053	-	-	-	-	-	-	-	-	929,991
2a.4.11	Utility Staff Cost	-	-	-	-	-	-	17,589	2,638	20,227	16,425	3,803	-	-	-	-	-	-	-	-	208,006
2a.4	Subtotal Period 2a Period-Dependent Costs	-	2,426	29	13	-	30	83,300	12,272	98,070	78,226	19,844	-	-	1,895	-	-	-	27,909	46	1,137,997
2a.0	TOTAL PERIOD 2a COST	-	2,426	29	13	-	30	179,662	26,841	209,001	91,311	116,539	1,150	-	1,895	-	-	-	27,909	46	1,137,997
PERIOD 2b - SAFSTOR Dormancy with Dry Spent Fuel Storage																					
Period 2b Direct Decommissioning Activities																					
2b.1.1	Quarterly Inspection									a											
2b.1.2	Semi-annual environmental survey									a											
2b.1.3	Prepare reports									a											
2b.1.4	Bituminous roof replacement	-	-	-	-	-	-	26	4	29	29	-	-	-	-	-	-	-	-	-	-
2b.1.5	Maintenance supplies	-	-	-	-	-	-	7,334	1,833	9,167	9,167	-	-	-	-	-	-	-	-	-	-
2b.1	Subtotal Period 2b Activity Costs	-	-	-	-	-	-	7,359	1,837	9,196	9,196	-	-	-	-	-	-	-	-	-	-
Period 2b Collateral Costs																					
2b.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	17,704	2,656	20,360	-	20,360	-	-	-	-	-	-	-	-	-
2b.3.2	Severance	-	-	-	-	-	-	765	115	879	879	-	-	-	-	-	-	-	-	-	-
2b.3	Subtotal Period 2b Collateral Costs	-	-	-	-	-	-	18,469	2,770	21,239	879	20,360	-	-	-	-	-	-	-	-	-
Period 2b Period-Dependent Costs																					
2b.4.1	Insurance	-	-	-	-	-	-	23,219	2,322	25,541	25,541	-	-	-	-	-	-	-	-	-	-
2b.4.2	Property taxes	-	-	-	-	-	-	20,105	2,010	22,115	22,115	-	-	-	-	-	-	-	-	-	-
2b.4.3	Health physics supplies	-	7,957	-	-	-	-	-	1,989	9,946	9,946	-	-	-	-	-	-	-	-	-	-
2b.4.4	Disposal of DAW generated	-	-	95	44	-	101	-	41	281	281	-	-	-	4,618	-	-	-	92,354	151	-
2b.4.5	Plant energy budget	-	-	-	-	-	-	10,814	1,622	12,436	12,436	-	-	-	-	-	-	-	-	-	-
2b.4.6	NRC Fees	-	-	-	-	-	-	17,309	1,731	19,040	19,040	-	-	-	-	-	-	-	-	-	-
2b.4.7	ISFSI Operating Costs	-	-	-	-	-	-	2,972	446	3,417	-	3,417	-	-	-	-	-	-	-	-	-
2b.4.8	Security Staff Cost	-	-	-	-	-	-	87,241	13,086	100,327	35,917	64,410	-	-	-	-	-	-	-	-	1,952,622
2b.4.9	Utility Staff Cost	-	-	-	-	-	-	78,075	11,711	89,786	57,014	32,772	-	-	-	-	-	-	-	-	929,846
2b.4	Subtotal Period 2b Period-Dependent Costs	-	7,957	95	44	-	101	239,734	34,959	282,890	182,290	100,599	-	-	4,618	-	-	-	92,354	151	2,882,468
2b.0	TOTAL PERIOD 2b COST	-	7,957	95	44	-	101	265,562	39,567	313,325	192,366	120,959	-	-	4,618	-	-	-	92,354	151	2,882,468
PERIOD 2 TOTALS		-	10,383	124	57	-	131	445,224	66,407	522,326	283,678	237,498	1,150	-	6,013	-	-	-	120,263	196	4,020,465

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 3a - Reactivate Site Following SAFSTOR Dormancy																					
Period 3a Direct Decommissioning Activities																					
3a.1.1	Prepare preliminary decommissioning cost	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
3a.1.2	Review plant dwgs & specs.	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
3a.1.3	Perform detailed rad survey									a											
3a.1.4	End product description	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
3a.1.5	Detailed by-product inventory	-	-	-	-	-	-	196	29	225	225	-	-	-	-	-	-	-	-	-	1,300
3a.1.6	Define major work sequence	-	-	-	-	-	-	1,131	170	1,300	1,300	-	-	-	-	-	-	-	-	-	7,500
3a.1.7	Perform SER and EA	-	-	-	-	-	-	467	70	538	538	-	-	-	-	-	-	-	-	-	3,100
3a.1.8	Prepare/submit Defueled Technical Specifications	-	-	-	-	-	-	1,131	170	1,300	1,300	-	-	-	-	-	-	-	-	-	7,500
3a.1.9	Perform Site-Specific Cost Study	-	-	-	-	-	-	754	113	867	867	-	-	-	-	-	-	-	-	-	5,000
3a.1.10	Prepare/submit Irradiated Fuel Management Plan	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
Activity Specifications																					
3a.1.11.1	Re-activate plant & temporary facilities	-	-	-	-	-	-	1,111	167	1,278	1,150	-	128	-	-	-	-	-	-	-	7,370
3a.1.11.2	Plant systems	-	-	-	-	-	-	628	94	722	650	-	72	-	-	-	-	-	-	-	4,167
3a.1.11.3	Reactor internals	-	-	-	-	-	-	1,071	161	1,231	1,231	-	-	-	-	-	-	-	-	-	7,100
3a.1.11.4	Reactor vessel	-	-	-	-	-	-	980	147	1,127	1,127	-	-	-	-	-	-	-	-	-	6,500
3a.1.11.5	Biological shield	-	-	-	-	-	-	75	11	87	87	-	-	-	-	-	-	-	-	-	500
3a.1.11.6	Steam generators	-	-	-	-	-	-	470	71	541	541	-	-	-	-	-	-	-	-	-	3,120
3a.1.11.7	Reinforced concrete	-	-	-	-	-	-	241	36	277	139	-	139	-	-	-	-	-	-	-	1,600
3a.1.11.8	Main Turbine	-	-	-	-	-	-	60	9	69	-	-	69	-	-	-	-	-	-	-	400
3a.1.11.9	Main Condensers	-	-	-	-	-	-	60	9	69	-	-	69	-	-	-	-	-	-	-	400
3a.1.11.10	Plant structures & buildings	-	-	-	-	-	-	470	71	541	270	-	270	-	-	-	-	-	-	-	3,120
3a.1.11.11	Waste management	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
3a.1.11.12	Facility & site closeout	-	-	-	-	-	-	136	20	156	78	-	78	-	-	-	-	-	-	-	900
3a.1.11	Total	-	-	-	-	-	-	5,998	900	6,897	6,071	-	826	-	-	-	-	-	-	-	39,777
Planning & Site Preparations																					
3a.1.12	Prepare dismantling sequence	-	-	-	-	-	-	362	54	416	416	-	-	-	-	-	-	-	-	-	2,400
3a.1.13	Plant prep. & temp. svces	-	-	-	-	-	-	4,200	630	4,830	4,830	-	-	-	-	-	-	-	-	-	-
3a.1.14	Design water clean-up system	-	-	-	-	-	-	211	32	243	243	-	-	-	-	-	-	-	-	-	1,400
3a.1.15	Rigging/Cont. Cntrl Envlps/tooling/etc.	-	-	-	-	-	-	2,900	435	3,335	3,335	-	-	-	-	-	-	-	-	-	-
3a.1.16	Procure casks/liners & containers	-	-	-	-	-	-	185	28	213	213	-	-	-	-	-	-	-	-	-	1,230
3a.1	Subtotal Period 3a Activity Costs	-	-	-	-	-	-	18,726	2,809	21,535	20,709	-	826	-	-	-	-	-	-	-	77,107
Period 3a Additional Costs																					
3a.2.1	Site Characterization	-	-	-	-	-	-	5,823	1,747	7,570	7,570	-	-	-	-	-	-	-	-	32,260	10,796
3a.2	Subtotal Period 3a Additional Costs	-	-	-	-	-	-	5,823	1,747	7,570	7,570	-	-	-	-	-	-	-	-	32,260	10,796
Period 3a Collateral Costs																					
3a.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	400	60	460	-	460	-	-	-	-	-	-	-	-	-
3a.3	Subtotal Period 3a Collateral Costs	-	-	-	-	-	-	400	60	460	-	460	-	-	-	-	-	-	-	-	-
Period 3a Period-Dependent Costs																					
3a.4.1	Insurance	-	-	-	-	-	-	502	50	552	552	-	-	-	-	-	-	-	-	-	-
3a.4.2	Property taxes	-	-	-	-	-	-	450	45	495	495	-	-	-	-	-	-	-	-	-	-
3a.4.3	Health physics supplies	-	858	-	-	-	-	-	214	1,072	1,072	-	-	-	-	-	-	-	-	-	-
3a.4.4	Heavy equipment rental	-	899	-	-	-	-	-	135	1,033	1,033	-	-	-	-	-	-	-	-	-	-
3a.4.5	Disposal of DAW generated	-	-	11	5	-	11	-	5	31	31	-	-	-	516	-	-	-	10,311	17	-
3a.4.6	Plant energy budget	-	-	-	-	-	-	2,419	363	2,782	2,782	-	-	-	-	-	-	-	-	-	-
3a.4.7	NRC Fees	-	-	-	-	-	-	541	54	595	595	-	-	-	-	-	-	-	-	-	-
3a.4.8	ISFSI Operating Costs	-	-	-	-	-	-	66	10	76	-	76	-	-	-	-	-	-	-	-	-
3a.4.9	Security Staff Cost	-	-	-	-	-	-	1,952	293	2,244	803	1,441	-	-	-	-	-	-	-	-	43,679
3a.4.10	Utility Staff Cost	-	-	-	-	-	-	21,558	3,228	24,786	23,943	843	-	-	-	-	-	-	-	-	260,000
3a.4	Subtotal Period 3a Period-Dependent Costs	-	1,757	11	5	-	11	27,482	4,402	33,667	31,307	2,360	-	-	516	-	-	-	10,311	17	303,679
3a.0	TOTAL PERIOD 3a COST	-	1,757	11	5	-	11	52,431	9,017	63,232	59,586	2,820	826	-	516	-	-	-	10,311	32,277	391,582
PERIOD 3b - Decommissioning Preparations																					
Period 3b Direct Decommissioning Activities																					
Detailed Work Procedures																					
3b.1.1.1	Plant systems	-	-	-	-	-	-	714	107	821	739	-	82	-	-	-	-	-	-	-	4,733
3b.1.1.2	Reactor internals	-	-	-	-	-	-	377	57	433	433	-	-	-	-	-	-	-	-	-	2,500
3b.1.1.3	Remaining buildings	-	-	-	-	-	-	204	31	234	59	-	176	-	-	-	-	-	-	-	1,350
3b.1.1.4	CRD cooling assembly	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Detailed Work Procedures (continued)																					
3b.1.1.5	CRD housings & ICI tubes	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
3b.1.1.6	Incore instrumentation	-	-	-	-	-	-	151	23	173	173	-	-	-	-	-	-	-	-	-	1,000
3b.1.1.7	Reactor vessel	-	-	-	-	-	-	547	82	629	629	-	-	-	-	-	-	-	-	-	3,630
3b.1.1.8	Facility closeout	-	-	-	-	-	-	181	27	208	104	-	104	-	-	-	-	-	-	-	1,200
3b.1.1.9	Missile shields	-	-	-	-	-	-	68	10	78	78	-	-	-	-	-	-	-	-	-	450
3b.1.1.10	Biological shield	-	-	-	-	-	-	181	27	208	208	-	-	-	-	-	-	-	-	-	1,200
3b.1.1.11	Steam generators	-	-	-	-	-	-	694	104	798	798	-	-	-	-	-	-	-	-	-	4,600
3b.1.1.12	Reinforced concrete	-	-	-	-	-	-	151	23	173	87	-	87	-	-	-	-	-	-	-	1,000
3b.1.1.13	Main Turbine	-	-	-	-	-	-	235	35	270	-	-	270	-	-	-	-	-	-	-	1,560
3b.1.1.14	Main Condensers	-	-	-	-	-	-	235	35	270	-	-	270	-	-	-	-	-	-	-	1,560
3b.1.1.15	Auxiliary building	-	-	-	-	-	-	412	62	473	426	-	47	-	-	-	-	-	-	-	2,730
3b.1.1.16	Reactor building	-	-	-	-	-	-	412	62	473	426	-	47	-	-	-	-	-	-	-	2,730
3b.1.1	Total	-	-	-	-	-	-	4,862	729	5,591	4,507	-	1,084	-	-	-	-	-	-	-	32,243
3b.1	Subtotal Period 3b Activity Costs	-	-	-	-	-	-	4,862	729	5,591	4,507	-	1,084	-	-	-	-	-	-	-	32,243
Period 3b Collateral Costs																					
3b.3.1	Decon equipment	1,253	-	-	-	-	-	-	188	1,441	1,441	-	-	-	-	-	-	-	-	-	-
3b.3.2	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2,281	-	-	-	-	-	-	-	-	-	-
3b.3.3	Pipe cutting equipment	-	1,500	-	-	-	-	-	225	1,725	1,725	-	-	-	-	-	-	-	-	-	-
3b.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	197	30	226	-	226	-	-	-	-	-	-	-	-	-
3b.3	Subtotal Period 3b Collateral Costs	1,253	1,500	-	-	-	-	2,180	740	5,673	5,447	226	-	-	-	-	-	-	-	-	-
Period 3b Period-Dependent Costs																					
3b.4.1	Decon supplies	44	-	-	-	-	-	-	11	55	55	-	-	-	-	-	-	-	-	-	-
3b.4.2	Insurance	-	-	-	-	-	-	256	26	282	282	-	-	-	-	-	-	-	-	-	-
3b.4.3	Property taxes	-	-	-	-	-	-	221	22	243	243	-	-	-	-	-	-	-	-	-	-
3b.4.4	Health physics supplies	-	458	-	-	-	-	-	114	572	572	-	-	-	-	-	-	-	-	-	-
3b.4.5	Heavy equipment rental	-	443	-	-	-	-	-	66	510	510	-	-	-	-	-	-	-	-	-	-
3b.4.6	Disposal of DAW generated	-	-	6	3	-	6	-	3	17	17	-	-	-	288	-	-	-	5,750	9	-
3b.4.7	Plant energy budget	-	-	-	-	-	-	1,193	179	1,372	1,372	-	-	-	-	-	-	-	-	-	-
3b.4.8	NRC Fees	-	-	-	-	-	-	267	27	293	293	-	-	-	-	-	-	-	-	-	-
3b.4.9	ISFSI Operating Costs	-	-	-	-	-	-	33	5	38	-	38	-	-	-	-	-	-	-	-	-
3b.4.10	Security Staff Cost	-	-	-	-	-	-	962	144	1,107	396	711	-	-	-	-	-	-	-	-	21,540
3b.4.11	DOC Staff Cost	-	-	-	-	-	-	5,681	852	6,534	6,534	-	-	-	-	-	-	-	-	-	57,442
3b.4.12	Utility Staff Cost	-	-	-	-	-	-	10,629	1,594	12,223	11,807	416	-	-	-	-	-	-	-	-	128,219
3b.4	Subtotal Period 3b Period-Dependent Costs	44	901	6	3	-	6	19,242	3,044	23,246	22,082	1,164	-	-	288	-	-	-	5,750	9	207,202
3b.0	TOTAL PERIOD 3b COST	1,297	2,401	6	3	-	6	26,284	4,513	34,510	32,036	1,390	1,084	-	288	-	-	-	5,750	9	239,445
PERIOD 3 TOTALS		1,297	4,158	17	8	-	18	78,715	13,530	97,742	91,622	4,210	1,910	-	803	-	-	-	16,062	32,286	631,026
PERIOD 4a - Large Component Removal																					
Period 4a Direct Decommissioning Activities																					
Nuclear Steam Supply System Removal																					
4a.1.1.1	Reactor Coolant Piping	19	95	25	23	-	180	-	84	425	425	-	-	-	1,275	-	-	-	88,984	2,465	-
4a.1.1.2	Pressurizer Relief Tank	5	19	11	10	-	82	-	30	158	158	-	-	-	581	-	-	-	40,513	605	-
4a.1.1.3	Reactor Coolant Pumps & Motors	20	66	86	254	-	1,207	-	375	2,009	2,009	-	-	-	7,231	-	-	-	792,800	2,575	100
4a.1.1.4	Pressurizer	-	42	456	131	-	575	-	219	1,423	1,423	-	-	-	3,445	-	-	-	240,508	1,346	638
4a.1.1.5	Steam Generators	-	5,169	708	2,058	-	9,934	-	4,155	22,024	22,024	-	-	-	59,529	-	-	-	3,527,500	11,171	2,125
4a.1.1.6	Retired Steam Generator Units	-	-	644	2,058	-	9,934	-	2,857	15,493	15,493	-	-	-	59,529	-	-	-	3,527,500	104	1,500
4a.1.1.7	CRDMs/ICIs/Service Structure Removal	24	216	269	43	-	362	-	190	1,103	1,103	-	-	-	4,852	-	-	-	179,025	5,442	-
4a.1.1.8	Reactor Vessel Internals	27	5,572	13,766	511	-	3,476	312	9,546	33,210	33,210	-	-	-	5,147	501	337	-	347,513	24,273	1,129
4a.1.1.9	Reactor Vessel	-	7,333	2,127	465	-	2,050	312	7,220	19,506	19,506	-	-	-	15,631	-	-	-	978,871	24,273	1,129
4a.1.1	Totals	96	18,511	18,092	5,553	-	27,799	623	24,676	95,350	95,350	-	-	-	157,220	501	337	-	9,723,214	72,254	6,921
Removal of Major Equipment																					
4a.1.2	Main Turbine/Generator	-	279	1,001	618	-	5,870	-	1,730	9,497	9,497	-	-	-	45,743	-	-	-	2,905,964	7,045	-
4a.1.3	Main Condensers	-	442	1,358	838	-	7,964	-	2,363	12,965	12,965	-	-	-	62,059	-	-	-	3,942,431	11,391	-
Cascading Costs from Clean Building Demolition																					
4a.1.4.1	Reactor	-	582	-	-	-	-	-	87	669	669	-	-	-	-	-	-	-	-	5,559	-
4a.1.4.2	Safeguard	-	68	-	-	-	-	-	10	79	79	-	-	-	-	-	-	-	-	558	-
4a.1.4	Totals	-	650	-	-	-	-	-	98	748	748	-	-	-	-	-	-	-	-	6,117	-

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems																					
4a.1.5.1	Auxiliary Feedwater (insulated)	-	620	165	90	-	851	-	398	2,123	2,123	-	-	-	6,577	-	-	-	421,242	13,852	-
4a.1.5.2	Auxiliary Steam	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	395	-
4a.1.5.3	Boron Recycle (insulated)	-	5	1	0	-	3	-	2	11	11	-	-	-	21	-	-	-	1,370	118	-
4a.1.5.4	Boron Recycle (uninsulated)	-	31	4	2	-	17	-	13	67	67	-	-	-	133	-	-	-	8,660	685	-
4a.1.5.5	Boron Thermal Regeneration (insulated)	-	82	11	5	-	47	-	34	179	179	-	-	-	359	-	-	-	23,309	1,832	-
4a.1.5.6	Boron Thermal Regeneration (uninsulated)	-	206	30	15	-	139	-	91	481	481	-	-	-	1,061	-	-	-	68,730	4,602	-
4a.1.5.7	Chemical & Volume Control (insulated)	-	178	22	10	-	95	-	72	376	376	-	-	-	722	-	-	-	46,896	3,960	-
4a.1.5.8	Chemical & Volume Control (uninsulated)	-	360	53	26	-	244	-	160	843	843	-	-	-	1,867	-	-	-	120,837	8,087	-
4a.1.5.9	Chemical Feed	-	7	-	-	-	-	-	1	9	-	-	9	-	-	-	-	-	-	218	-
4a.1.5.10	Chemical Feed - RCA	-	9	1	0	-	2	-	3	15	15	-	-	-	15	-	-	-	971	253	-
4a.1.5.11	Chilled Water - Safety	-	5	-	-	-	-	-	1	6	-	-	6	-	-	-	-	-	-	139	-
4a.1.5.12	Chilled Water - Safety - RCA	-	95	14	6	-	56	-	40	211	211	-	-	-	427	-	-	-	27,756	2,002	-
4a.1.5.13	Circulating Water	-	193	-	-	-	-	-	29	222	-	-	222	-	-	-	-	-	-	5,720	-
4a.1.5.14	Component Cooling Water	-	25	-	-	-	-	-	4	29	-	-	29	-	-	-	-	-	-	709	-
4a.1.5.15	Component Cooling Water - RCA	-	1,015	378	229	-	2,176	-	870	4,669	4,669	-	-	-	16,878	-	-	-	1,077,151	23,199	-
4a.1.5.16	Condensate (insulated)	-	139	-	-	-	-	-	21	160	-	-	160	-	-	-	-	-	-	4,155	-
4a.1.5.17	Condensate (uninsulated)	-	112	-	-	-	-	-	17	129	-	-	129	-	-	-	-	-	-	3,200	-
4a.1.5.18	Condensate Polishing	-	105	-	-	-	-	-	16	121	-	-	121	-	-	-	-	-	-	3,095	-
4a.1.5.19	Condenser Vacuum & Water Box Priming	-	70	-	-	-	-	-	11	81	-	-	81	-	-	-	-	-	-	2,054	-
4a.1.5.20	Extraction Steam	-	78	-	-	-	-	-	12	89	-	-	89	-	-	-	-	-	-	2,335	-
4a.1.5.21	Feedwater	-	240	-	-	-	-	-	36	275	-	-	275	-	-	-	-	-	-	7,102	-
4a.1.5.22	Feedwater - RCA	-	62	27	16	-	157	-	60	321	321	-	-	-	1,217	-	-	-	77,593	1,449	-
4a.1.5.23	Generator & Exciter	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
4a.1.5.24	Generator Gas Cooling	-	9	-	-	-	-	-	1	10	-	-	10	-	-	-	-	-	-	247	-
4a.1.5.25	Generator Primary Water	-	69	-	-	-	-	-	10	79	-	-	79	-	-	-	-	-	-	2,008	-
4a.1.5.26	Generator Seal Oil	-	8	-	-	-	-	-	1	10	-	-	10	-	-	-	-	-	-	232	-
4a.1.5.27	Hydrogen Gas	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	53	-
4a.1.5.28	Main Steam Reheat & Steam Dump	-	39	-	-	-	-	-	6	45	-	-	45	-	-	-	-	-	-	1,105	-
4a.1.5.29	Main Steam Reheat & Steam Dump - RCA	-	472	141	78	-	744	-	330	1,769	1,769	-	-	-	5,739	-	-	-	368,270	10,634	-
4a.1.5.30	Main Turbine Lube Oil	-	48	-	-	-	-	-	7	55	-	-	55	-	-	-	-	-	-	1,390	-
4a.1.5.31	Main Turbine Oil Purification	-	96	-	-	-	-	-	14	110	-	-	110	-	-	-	-	-	-	2,778	-
4a.1.5.32	Nitrogen Gas	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	50	-
4a.1.5.33	Post Accident Sampling	-	8	0	0	-	2	-	3	14	14	-	-	-	15	-	-	-	951	222	-
4a.1.5.34	Process Sampling (uninsulated)	-	9	3	2	-	23	-	9	47	47	-	-	-	177	-	-	-	11,236	241	-
4a.1.5.35	Reactor Coolant	-	113	15	7	-	70	-	48	253	253	-	-	-	535	-	-	-	34,637	2,522	-
4a.1.5.36	Residual Heat Removal	-	229	149	81	-	765	-	276	1,500	1,500	-	-	-	5,891	-	-	-	378,887	5,722	-
4a.1.5.37	Safety Injection (insulated)	-	142	35	20	-	187	-	89	473	473	-	-	-	1,443	-	-	-	92,591	3,309	-
4a.1.5.38	Safety Injection (uninsulated)	-	184	-	-	-	-	-	28	211	211	-	-	-	-	-	-	-	-	4,753	-
4a.1.5.39	Secondary Plant Sampling	-	32	-	-	-	-	-	5	37	-	-	37	-	-	-	-	-	-	1,040	-
4a.1.5.40	Steam Generator Blowdown & Cleanup	-	119	-	-	-	-	-	18	137	-	-	137	-	-	-	-	-	-	3,483	-
4a.1.5.41	Turbine Electrohydr Cntrl (insulated)	-	22	-	-	-	-	-	3	26	-	-	26	-	-	-	-	-	-	663	-
4a.1.5.42	Turbine Electrohydr Cntrl (uninsulated)	-	15	-	-	-	-	-	2	17	-	-	17	-	-	-	-	-	-	416	-
4a.1.5.43	Turbine Gland Steam & Drains	-	46	-	-	-	-	-	7	53	-	-	53	-	-	-	-	-	-	1,357	-
4a.1.5.44	Turbine Heater Drains	-	421	-	-	-	-	-	63	485	-	-	485	-	-	-	-	-	-	12,600	-
4a.1.5.45	Turbine Plant Cooling (insulated)	-	18	-	-	-	-	-	3	21	-	-	21	-	-	-	-	-	-	533	-
4a.1.5.46	Turbine Plant Cooling (uninsulated)	-	152	-	-	-	-	-	23	175	-	-	175	-	-	-	-	-	-	4,495	-
4a.1.5.47	Turbines (High - Low) (insulated)	-	37	-	-	-	-	-	5	42	-	-	42	-	-	-	-	-	-	1,105	-
4a.1.5.48	Turbines (High - Low) (uninsulated)	-	57	-	-	-	-	-	8	65	-	-	65	-	-	-	-	-	-	1,703	-
4a.1.5.49	Vent Chilled Water - Non Safety	-	17	-	-	-	-	-	3	20	-	-	20	-	-	-	-	-	-	500	-
4a.1.5.50	Vent Chilled Water - Non Safety- RCA	-	141	25	11	-	109	-	67	353	353	-	-	-	833	-	-	-	53,965	2,994	-
4a.1.5.51	Westinghouse Process Instruments	-	3	0	0	-	2	-	1	7	7	-	-	-	13	-	-	-	851	85	-
4a.1.5	Totals	-	6,163	1,076	599	-	5,688	-	2,922	16,449	13,922	-	2,526	-	43,924	-	-	-	2,815,905	155,432	-
4a.1.6	Scaffolding in support of decommissioning	-	516	7	4	-	39	-	140	707	707	-	-	-	307	-	-	-	19,524	16,373	-
4a.1	Subtotal Period 4a Activity Costs	96	26,562	21,533	7,611	-	47,300	623	31,930	135,716	133,189	-	2,526	-	309,253	501	337	-	19,407,050	268,612	6,921
Period 4a Additional Costs																					
4a.2.1	Remedial Action Surveys	-	-	-	-	-	-	1,594	478	2,072	2,072	-	-	-	-	-	-	-	-	29,100	-
4a.2.2	Retired HP and LP Turbine Rotors	-	111	372	446	-	526	-	263	1,719	1,719	-	-	-	3,500	-	-	-	1,032,150	3,893	1,000
4a.2.3	Retired Reactor Closure Head	-	-	559	769	-	445	-	283	2,057	2,057	-	-	-	2,954	-	-	-	510,800	1,540	2,000
4a.2	Subtotal Period 4a Additional Costs	-	111	931	1,216	-	972	1,594	1,024	5,848	5,848	-	-	-	6,455	-	-	-	1,542,950	34,534	3,000
Period 4a Collateral Costs																					
4a.3.1	Process decommissioning water waste	6	-	10	14	-	11	-	9	49	49	-	-	-	83	-	-	-	4,976	16	-
4a.3.2	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4a.3.3	Small tool allowance	-	219	-	-	-	-	-	33	251	226	-	25	-	-	-	-	-	-	-	-
4a.3.4	Spent Fuel Capital and Transfer	-	-	-	-	-	-	560	84	644	-	644	-	-	-	-	-	-	-	-	-

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
4a.3	Subtotal Period 4a Collateral Costs	6	219	10	14	-	11	560	125	944	275	644	25	-	83	-	-	-	4,976	16	-
	Period 4a Period-Dependent Costs																				
4a.4.1	Decon supplies	125	-	-	-	-	-	-	31	156	156	-	-	-	-	-	-	-	-	-	-
4a.4.2	Insurance	-	-	-	-	-	-	727	73	800	800	-	-	-	-	-	-	-	-	-	-
4a.4.3	Property taxes	-	-	-	-	-	-	630	63	693	693	-	-	-	-	-	-	-	-	-	-
4a.4.4	Health physics supplies	-	4,025	-	-	-	-	-	1,006	5,031	5,031	-	-	-	-	-	-	-	-	-	-
4a.4.5	Heavy equipment rental	-	3,933	-	-	-	-	-	590	4,523	4,523	-	-	-	-	-	-	-	-	-	-
4a.4.6	Disposal of DAW generated	-	-	83	38	-	87	-	36	244	244	-	-	-	4,007	-	-	-	80,140	131	-
4a.4.7	Plant energy budget	-	-	-	-	-	-	3,217	483	3,700	3,700	-	-	-	-	-	-	-	-	-	-
4a.4.8	NRC Fees	-	-	-	-	-	-	955	96	1,051	1,051	-	-	-	-	-	-	-	-	-	-
4a.4.9	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	726	109	835	835	-	-	-	-	-	-	-	-	-	-
4a.4.10	ISFSI Operating Costs	-	-	-	-	-	-	93	14	107	-	107	-	-	-	-	-	-	-	-	-
4a.4.11	Security Staff Cost	-	-	-	-	-	-	2,732	410	3,142	1,125	2,017	-	-	-	-	-	-	-	-	61,150
4a.4.12	DOC Staff Cost	-	-	-	-	-	-	19,473	2,921	22,394	22,394	-	-	-	-	-	-	-	-	-	200,142
4a.4.13	Utility Staff Cost	-	-	-	-	-	-	29,922	4,488	34,410	33,378	1,032	-	-	-	-	-	-	-	-	361,407
4a.4	Subtotal Period 4a Period-Dependent Costs	125	7,958	83	38	-	87	58,476	10,319	77,086	73,929	3,156	-	-	4,007	-	-	-	80,140	131	622,699
4a.0	TOTAL PERIOD 4a COST	226	34,850	22,557	8,879	-	48,430	61,253	43,398	219,593	213,241	3,800	2,552	-	319,798	501	337	-	21,036,110	303,292	632,620
	PERIOD 4b - Site Decontamination																				
	Period 4b Direct Decommissioning Activities																				
4b.1.1	Remove spent fuel racks	264	28	130	41	-	390	-	256	1,109	1,109	-	-	-	3,042	-	-	-	193,246	838	-
	Disposal of Plant Systems																				
4b.1.2.1	Auxiliary Building HVAC (insulated)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4b.1.2.2	Auxiliary Building HVAC (uninsulated)	-	8	1	1	-	8	-	4	22	22	-	-	-	63	-	-	-	4,014	195	-
4b.1.2.3	Batt Rms & Misc Uncontrolled Acc. HVAC	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	53	-
4b.1.2.4	Compressed Air - Instr. Air (insulated)	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	58	-
4b.1.2.5	Compressed Air - Instrument Air - RCA (i	-	11	2	1	-	7	-	5	25	25	-	-	-	51	-	-	-	3,348	233	-
4b.1.2.6	Compressed Air - Instrument Air - RCA (u	-	128	17	7	-	67	-	52	271	271	-	-	-	513	-	-	-	33,385	2,823	-
4b.1.2.7	Compressed Air - Service Air	-	29	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	883	-
4b.1.2.8	Compressed Air - Service Air - RCA	-	148	21	9	-	86	-	62	326	326	-	-	-	658	-	-	-	42,761	3,229	-
4b.1.2.9	Compressed Air -Instr. Air (uninsulated)	-	29	-	-	-	-	-	4	34	-	-	34	-	-	-	-	-	-	883	-
4b.1.2.10	Containment Hatches	-	8	1	1	-	5	-	3	18	18	-	-	-	40	-	-	-	2,568	170	-
4b.1.2.11	Containment Hydrogen Purge HVAC	-	39	11	6	-	56	-	26	137	137	-	-	-	427	-	-	-	27,475	944	-
4b.1.2.12	Containment Spray	-	405	330	180	-	1,710	-	589	3,214	3,214	-	-	-	13,197	-	-	-	846,674	9,916	-
4b.1.2.13	Containmnt Ventilation HVAC (insulated)	-	215	122	75	-	710	-	255	1,376	1,376	-	-	-	5,503	-	-	-	351,564	4,889	-
4b.1.2.14	Containmnt Ventilation HVAC(uninsulated)	-	31	10	7	-	65	-	26	138	138	-	-	-	504	-	-	-	31,997	713	-
4b.1.2.15	Control Room HVAC	-	2	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	62	-
4b.1.2.16	Demineralized & RCS Makeup Water	-	33	-	-	-	-	-	5	38	-	-	38	-	-	-	-	-	-	911	-
4b.1.2.17	Demineralized & RCS Makeup Water - RCA	-	102	16	7	-	65	-	44	234	234	-	-	-	491	-	-	-	31,957	2,095	-
4b.1.2.18	Diesel Gen & Auxiliaries (insulated)	-	6	-	-	-	-	-	1	7	-	-	7	-	-	-	-	-	-	182	-
4b.1.2.19	Diesel Gen & Auxiliaries (uninsulated)	-	78	-	-	-	-	-	12	90	-	-	90	-	-	-	-	-	-	2,239	-
4b.1.2.20	Diesel Generator Fuel Oil	-	13	-	-	-	-	-	2	15	-	-	15	-	-	-	-	-	-	364	-
4b.1.2.21	Diesel Room HVAC	-	4	-	-	-	-	-	1	5	-	-	5	-	-	-	-	-	-	117	-
4b.1.2.22	Electrical - Clean	-	1,754	-	-	-	-	-	263	2,017	-	-	2,017	-	-	-	-	-	-	49,247	-
4b.1.2.23	Electrical - Contaminated	-	148	15	10	-	96	-	64	332	332	-	-	-	745	-	-	-	47,359	3,126	-
4b.1.2.24	Electrical - RCA	-	1,056	137	92	-	870	-	509	2,664	2,664	-	-	-	6,779	-	-	-	430,621	21,014	-
4b.1.2.25	Fire Protection	-	89	-	-	-	-	-	13	103	-	-	103	-	-	-	-	-	-	2,628	-
4b.1.2.26	Fire Protection - RCA	-	214	42	20	-	187	-	107	570	570	-	-	-	1,434	-	-	-	92,756	4,585	-
4b.1.2.27	Fuel Building HVAC (uninsulated)	-	6	1	1	-	5	-	3	16	16	-	-	-	42	-	-	-	2,679	152	-
4b.1.2.28	Fuel Handling	-	6	1	1	-	8	-	4	19	19	-	-	-	61	-	-	-	3,891	134	-
4b.1.2.29	Leak Rate Test	-	10	3	1	-	14	-	6	34	34	-	-	-	104	-	-	-	6,718	238	-
4b.1.2.30	Potable Water	-	1	-	-	-	-	-	0	2	-	-	2	-	-	-	-	-	-	39	-
4b.1.2.31	Radiation Monitoring	-	1	-	-	-	-	-	0	1	-	-	1	-	-	-	-	-	-	33	-
4b.1.2.32	Safeguards Building HVAC (insulated)	-	17	3	2	-	22	-	10	55	55	-	-	-	174	-	-	-	11,048	311	-
4b.1.2.33	Safeguards Building HVAC (uninsulated)	-	46	8	6	-	52	-	26	138	138	-	-	-	409	-	-	-	25,970	1,030	-
4b.1.2.34	Service Water	-	42	-	-	-	-	-	6	48	-	-	48	-	-	-	-	-	-	1,240	-
4b.1.2.35	Service Water - RCA	-	184	75	48	-	461	-	176	944	944	-	-	-	3,578	-	-	-	228,038	4,467	-
4b.1.2.36	Spent Fuel Pool Cooling & Cleanup	-	128	15	7	-	67	-	51	268	268	-	-	-	508	-	-	-	33,005	2,817	-
4b.1.2.37	Turbine Building HVAC (insulated)	-	3	-	-	-	-	-	0	3	-	-	3	-	-	-	-	-	-	92	-
4b.1.2.38	Turbine Building HVAC (uninsulated)	-	24	-	-	-	-	-	4	28	-	-	28	-	-	-	-	-	-	722	-
4b.1.2.39	Vents & Drains	-	17	-	-	-	-	-	3	20	-	-	20	-	-	-	-	-	-	495	-
4b.1.2.40	Vents & Drains - RCA	-	156	21	10	-	94	-	66	347	347	-	-	-	714	-	-	-	46,313	3,457	-
4b.1.2.41	Waste Management (uninsulated)	-	3	-	-	-	-	-	0	4	-	-	4	-	-	-	-	-	-	91	-
4b.1.2.42	Waste Processing Liquid (insulated)	-	134	16	7	-	67	-	53	276	276	-	-	-	508	-	-	-	33,022	2,980	-
4b.1.2.43	Waste Processing Liquid (uninsulated)	-	64	9	4	-	38	-	27	142	142	-	-	-	291	-	-	-	18,868	1,428	-

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
Disposal of Plant Systems (continued)																					
4b.1.2.44	Waste Processing Solid	-	2	0	0	-	2	-	1	5	5	-	-	-	14	-	-	-	860	48	-
4b.1.2	Totals	-	5,400	875	501	-	4,761	-	2,489	14,026	11,573	-	2,453	-	36,807	-	-	-	2,356,892	131,333	-
4b.1.3	Scaffolding in support of decommissioning	-	775	10	6	-	59	-	210	1,060	1,060	-	-	-	461	-	-	-	29,301	24,559	-
Decontamination of Site Buildings																					
4b.1.4.1	Reactor	1,156	695	109	184	-	1,173	-	1,084	4,400	4,400	-	-	-	14,749	-	-	-	733,248	43,036	-
4b.1.4.2	Safeguard	146	52	14	15	-	113	-	118	460	460	-	-	-	1,292	-	-	-	64,941	4,627	-
4b.1.4	Totals	1,302	747	123	199	-	1,286	-	1,202	4,860	4,860	-	-	-	16,040	-	-	-	798,189	47,663	-
4b.1.5	Prepare/submit License Termination Plan	-	-	-	-	-	-	618	93	710	710	-	-	-	-	-	-	-	-	-	4,096
4b.1.6	Receive NRC approval of termination plan									a											
4b.1	Subtotal Period 4b Activity Costs	1,566	6,949	1,138	748	-	6,497	618	4,250	21,765	19,312	-	2,453	-	56,851	-	-	-	3,377,627	204,393	4,096
Period 4b Additional Costs																					
4b.2.1	License Termination Survey Planning	-	-	-	-	-	-	1,236	371	1,607	1,607	-	-	-	-	-	-	-	-	-	6,240
4b.2.2	Operational Tools & Equipment	-	-	11	43	-	218	-	62	333	333	-	-	-	5,850	-	-	-	146,250	16	-
4b.2.3	Excavation of Underground Services	-	1,794	-	-	-	-	757	562	3,113	3,113	-	-	-	-	-	-	-	-	11,945	-
4b.2.4	Remedial Action Surveys	-	-	-	-	-	-	2,417	725	3,143	3,143	-	-	-	-	-	-	-	-	44,134	-
4b.2	Subtotal Period 4b Additional Costs	-	1,794	11	43	-	218	4,410	1,720	8,196	8,196	-	-	-	5,850	-	-	-	146,250	56,095	6,240
Period 4b Collateral Costs																					
4b.3.1	Process decommissioning water waste	11	-	20	28	-	22	-	17	97	97	-	-	-	166	-	-	-	9,943	32	-
4b.3.2	Process decommissioning chemical flush waste	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4b.3.3	Small tool allowance	-	137	-	-	-	-	-	21	158	158	-	-	-	-	-	-	-	-	-	-
4b.3.4	Decommissioning Equipment Disposition	-	-	116	71	-	679	-	192	1,058	1,058	-	-	-	5,290	-	-	-	336,079	147	-
4b.3.5	Spent Fuel Capital and Transfer	-	-	-	-	-	-	849	127	976	-	976	-	-	-	-	-	-	-	-	-
4b.3	Subtotal Period 4b Collateral Costs	11	137	135	99	-	701	849	357	2,289	1,313	976	-	-	5,456	-	-	-	346,022	179	-
Period 4b Period-Dependent Costs																					
4b.4.1	Decon supplies	1,176	-	-	-	-	-	-	294	1,470	1,470	-	-	-	-	-	-	-	-	-	-
4b.4.2	Insurance	-	-	-	-	-	-	1,103	110	1,213	1,213	-	-	-	-	-	-	-	-	-	-
4b.4.3	Property taxes	-	-	-	-	-	-	955	96	1,051	1,051	-	-	-	-	-	-	-	-	-	-
4b.4.4	Health physics supplies	-	4,108	-	-	-	-	-	1,027	5,135	5,135	-	-	-	-	-	-	-	-	-	-
4b.4.5	Heavy equipment rental	-	6,114	-	-	-	-	-	917	7,031	7,031	-	-	-	-	-	-	-	-	-	-
4b.4.6	Disposal of DAW generated	-	-	62	28	-	65	-	27	182	182	-	-	-	2,993	-	-	-	59,851	98	-
4b.4.7	Plant energy budget	-	-	-	-	-	-	3,852	578	4,430	4,430	-	-	-	-	-	-	-	-	-	-
4b.4.8	NRC Fees	-	-	-	-	-	-	1,449	145	1,594	1,594	-	-	-	-	-	-	-	-	-	-
4b.4.9	Liquid Radwaste Processing Equipment/Services	-	-	-	-	-	-	1,101	165	1,266	1,266	-	-	-	-	-	-	-	-	-	-
4b.4.10	ISFSI Operating Costs	-	-	-	-	-	-	141	21	162	-	162	-	-	-	-	-	-	-	-	-
4b.4.11	Security Staff Cost	-	-	-	-	-	-	4,144	622	4,765	1,706	3,059	-	-	-	-	-	-	-	-	92,743
4b.4.12	DOC Staff Cost	-	-	-	-	-	-	19,465	2,920	22,385	22,385	-	-	-	-	-	-	-	-	-	207,573
4b.4.13	Utility Staff Cost	-	-	-	-	-	-	30,243	4,536	34,779	33,527	1,252	-	-	-	-	-	-	-	-	370,981
4b.4	Subtotal Period 4b Period-Dependent Costs	1,176	10,222	62	28	-	65	62,452	11,457	85,463	80,990	4,474	-	-	2,993	-	-	-	59,851	98	671,296
4b.0	TOTAL PERIOD 4b COST	2,753	19,103	1,346	918	-	7,480	68,329	17,784	117,714	109,810	5,450	2,453	-	70,649	-	-	-	3,929,751	260,765	681,632
PERIOD 4e - Delay before License Termination																					
Period 4e Collateral Costs																					
4e.3.1	Spent Fuel Capital and Transfer	-	-	-	-	-	-	431	65	496	-	496	-	-	-	-	-	-	-	-	-
4e.3	Subtotal Period 4e Collateral Costs	-	-	-	-	-	-	431	65	496	-	496	-	-	-	-	-	-	-	-	-
Period 4e Period-Dependent Costs																					
4e.4.1	Insurance	-	-	-	-	-	-	561	56	617	617	-	-	-	-	-	-	-	-	-	-
4e.4.2	Property taxes	-	-	-	-	-	-	485	48	533	533	-	-	-	-	-	-	-	-	-	-
4e.4.3	Health physics supplies	-	187	-	-	-	-	-	47	234	234	-	-	-	-	-	-	-	-	-	-
4e.4.4	Disposal of DAW generated	-	-	2	1	-	2	-	1	7	7	-	-	-	108	-	-	-	2,152	4	-
4e.4.5	Plant energy budget	-	-	-	-	-	-	522	78	601	601	-	-	-	-	-	-	-	-	-	-
4e.4.6	NRC Fees	-	-	-	-	-	-	390	39	429	429	-	-	-	-	-	-	-	-	-	-
4e.4.7	ISFSI Operating Costs	-	-	-	-	-	-	72	11	83	-	83	-	-	-	-	-	-	-	-	-
4e.4.8	Security Staff Cost	-	-	-	-	-	-	2,107	316	2,423	867	1,555	-	-	-	-	-	-	-	-	47,149
4e.4.9	Utility Staff Cost	-	-	-	-	-	-	1,292	194	1,485	1,380	105	-	-	-	-	-	-	-	-	15,717
4e.4	Subtotal Period 4e Period-Dependent Costs	-	187	2	1	-	2	5,428	790	6,411	4,668	1,743	-	-	108	-	-	-	2,152	4	62,866
4e.0	TOTAL PERIOD 4e COST	-	187	2	1	-	2	5,859	855	6,907	4,668	2,239	-	-	108	-	-	-	2,152	4	62,866

Table D-1
Comanche Peak Nuclear Power Plant Unit 1
SAFSTOR Decommissioning Cost Estimate
(Thousands of 2024 Dollars)

Activity Index	Activity Description	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs	NRC Lic. Term. Costs	Spent Fuel Management Costs	Site Restoration Costs	Processed Volume Cu. Feet	Burial Volumes Class A Cu. Feet	Burial Volumes Class B Cu. Feet	Burial Volumes Class C Cu. Feet	Burial Volumes GTCC Cu. Feet	Burial / Processed Wt., Lbs.	Craft Manhours	Utility and Contractor Manhours
PERIOD 4f - License Termination																					
Period 4f Direct Decommissioning Activities																					
4f.1.1	ORISE confirmatory survey	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
4f.1.2	Terminate license									a											
4f.1	Subtotal Period 4f Activity Costs	-	-	-	-	-	-	180	54	234	234	-	-	-	-	-	-	-	-	-	-
Period 4f Additional Costs																					
4f.2.1	License Termination Survey	-	-	-	-	-	-	4.238	1,272	5.510	5,510	-	-	-	-	-	-	-	-	81,422	3.120
4f.2	Subtotal Period 4f Additional Costs	-	-	-	-	-	-	4.238	1,272	5.510	5,510	-	-	-	-	-	-	-	-	81,422	3.120
Period 4f Collateral Costs																					
4f.3.1	DOC staff relocation expenses	-	-	-	-	-	-	1,984	298	2,281	2,281	-	-	-	-	-	-	-	-	-	-
4f.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	301	45	347	-	347	-	-	-	-	-	-	-	-	-
4f.3	Subtotal Period 4f Collateral Costs	-	-	-	-	-	-	2,285	343	2,628	2,281	347	-	-	-	-	-	-	-	-	-
Period 4f Period-Dependent Costs																					
4f.4.1	Insurance	-	-	-	-	-	-	391	39	430	430	-	-	-	-	-	-	-	-	-	-
4f.4.2	Property taxes	-	-	-	-	-	-	339	34	373	373	-	-	-	-	-	-	-	-	-	-
4f.4.3	Health physics supplies	-	1,025	-	-	-	-	-	256	1.281	1,281	-	-	-	-	-	-	-	-	-	-
4f.4.4	Disposal of DAW generated	-	-	7	3	-	7	-	3	20	20	-	-	-	337	-	-	-	6.734	11	-
4f.4.5	Plant energy budget	-	-	-	-	-	-	365	55	419	419	-	-	-	-	-	-	-	-	-	-
4f.4.6	NRC Fees	-	-	-	-	-	-	621	62	683	683	-	-	-	-	-	-	-	-	-	-
4f.4.7	ISFSI Operating Costs	-	-	-	-	-	-	50	8	58	-	58	-	-	-	-	-	-	-	-	-
4f.4.8	Security Staff Cost	-	-	-	-	-	-	1,470	221	1,691	605	1,086	-	-	-	-	-	-	-	-	32,909
4f.4.9	DOC Staff Cost	-	-	-	-	-	-	4,608	691	5,299	5,299	-	-	-	-	-	-	-	-	-	46,622
4f.4.10	Utility Staff Cost	-	-	-	-	-	-	5,212	782	5,994	5,442	551	-	-	-	-	-	-	-	-	59,942
4f.4	Subtotal Period 4f Period-Dependent Costs	-	1,025	7	3	-	7	13.056	2,150	16.248	14,554	1.695	-	-	337	-	-	-	6.734	11	139.473
4f.0	TOTAL PERIOD 4f COST	-	1,025	7	3	-	7	19.759	3,818	24.620	22,579	2.041	-	-	337	-	-	-	6.734	81,433	142.593
PERIOD 4 TOTALS		2.979	55,165	23.912	9,801	-	55,920	155.200	65,855	368.833	350,298	13.530	5.005	-	390,891	501	337	-	24,973.750	645,494	1,519,712
PERIOD 5b - Site Restoration																					
Period 5b Direct Decommissioning Activities																					
Demolition of Remaining Site Buildings																					
5b.1.1.1	Reactor	-	3,303	-	-	-	-	-	496	3.799	-	-	3.799	-	-	-	-	-	-	31,617	-
5b.1.1.2	Circ Water Yard Piping	-	23	-	-	-	-	-	3	26	-	-	26	-	-	-	-	-	-	36	-
5b.1.1.3	Diesel Generator	-	455	-	-	-	-	-	68	523	-	-	523	-	-	-	-	-	-	4,210	-
5b.1.1.4	Old Steam Generator Storage Facility	-	511	-	-	-	-	-	77	588	-	-	588	-	-	-	-	-	-	3,622	-
5b.1.1.5	Safeguard	-	1,302	-	-	-	-	-	195	1,497	-	-	1,497	-	-	-	-	-	-	10,725	-
5b.1.1.6	Switchgear	-	91	-	-	-	-	-	14	104	-	-	104	-	-	-	-	-	-	795	-
5b.1.1.7	Turbine	-	575	-	-	-	-	-	86	661	-	-	661	-	-	-	-	-	-	7,230	-
5b.1.1.8	Turbine Pedestal	-	637	-	-	-	-	-	96	732	-	-	732	-	-	-	-	-	-	4,159	-
5b.1.1	Totals	-	6,897	-	-	-	-	-	1,035	7,931	-	-	7,931	-	-	-	-	-	-	62,394	-
Site Closeout Activities																					
5b.1.2	Grade & landscape site	-	462	-	-	-	-	-	69	532	-	-	532	-	-	-	-	-	-	1,292	-
5b.1.3	Final report to NRC	-	-	-	-	-	-	235	35	270	270	-	-	-	-	-	-	-	-	-	1.560
5b.1	Subtotal Period 5b Activity Costs	-	7,359	-	-	-	-	235	1,139	8.734	270	-	8.463	-	-	-	-	-	-	63,686	1.560
Period 5b Additional Costs																					
5b.2.1	Concrete Crushing	-	549	-	-	-	-	5	83	637	-	-	637	-	-	-	-	-	-	2,483	-
5b.2.2	Construction Debris	-	-	-	-	-	-	0	0	0	-	-	0	-	-	-	-	-	-	-	-
5b.2.3	Firing Range	-	33	-	-	-	-	66	15	114	-	-	114	-	-	-	-	-	-	237	-
5b.2	Subtotal Period 5b Additional Costs	-	582	-	-	-	-	71	98	751	-	-	751	-	-	-	-	-	-	2,720	-
Period 5b Collateral Costs																					
5b.3.1	Small tool allowance	-	42	-	-	-	-	-	6	48	-	-	48	-	-	-	-	-	-	-	-
5b.3.2	Spent Fuel Capital and Transfer	-	-	-	-	-	-	800	120	920	-	920	-	-	-	-	-	-	-	-	-
5b.3	Subtotal Period 5b Collateral Costs	-	42	-	-	-	-	800	126	968	-	920	48	-	-	-	-	-	-	-	-
Period 5b Period-Dependent Costs																					
5b.4.1	Insurance	-	-	-	-	-	-	519	52	571	-	-	571	-	-	-	-	-	-	-	-
5b.4.2	Property taxes	-	-	-	-	-	-	900	90	990	-	-	990	-	-	-	-	-	-	-	-
5b.4.3	Heavy equipment rental	-	7,880	-	-	-	-	-	1,182	9.062	-	-	9.062	-	-	-	-	-	-	-	-
5b.4.4	Plant energy budget	-	-	-	-	-	-	484	73	556	-	-	556	-	-	-	-	-	-	-	-