Table B.12 Burial Costs at the South Carolina Site
Reference BWR (1996 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	64,400	680,400	0	29,218	774,018
FUEL SUPPORT & PIECES	0	32,200	680,400	0	14,650	727,250
CONTROL RODS/INCORES	12,480	18,400	966,400	0	43,868	1,041,148
CONTROL RODS GUIDES	0	27,600	72,240	0	11,671	111,511
JET PUMPS	0	92,000	972,000	0	40,971	1,104,971
TOP FUEL GUIDES	0	165,600	2,928,240	0	70,189	3,164,029
CORE SUPPORT PLATE	0	71,300	251,100	0	32,198	354,598
CORE SHROUD[a]	0	322,000	16,912,000	0	137,398	17,371,398
REACTOR VESSEL WALL	48,180	50,600	444,400	0	23,424	566,604
SAC SHIELD	75,600	0	0	0	263,043	338,643
REACT. WATER REC	58,000	0	0	0	257,249	315,249
SAC SHIELD	205,200	0	0	0	906,166	1,111,366
OTHER PRIMARY CONTAINMENT	0	0	0	0	10,335,490	10,335,490
CONTAINM. ATMOSPHERIC	4,380	0	0	0	140,295	144,675
HIGH PRESSURE CORE SPRAY	8,300	0	0	0	49,662	57,962
LOW PRESSURE CORE SPRAY	2,820	0	0	0	29,218	32,038
REACTOR BLDG CLOSED COOLING	6,570	0	0	0	93,530	100,100
REACTOR CORE ISO COOLING	2,190	0	0	0	37,991	40,181
RESIDUAL HEAT REMOVAL	19,740	0	0	0	181,266	201,006
POOL LINER & RACKS	81,000	0	0	0	1,113,670	1,194,670
CONTAMINATED CONCRETE	35,040	0	0	0	1,268,616	1,303,656
OTHER REACTOR BUILDING	0	0	0	0	4,147,605	4,147,605
TURBINE	163,560	0	0	0	4,109,696	4,273,256
NUCLEAR STEAM CONDENSATE	33,840	0	0	0	1,061,029	1,094,869
LOW PRESSURE FEEDWATER HEATERS	226,800	0	0	0	2,154,172	2,380,972
MAIN STEAM	8,460	0	0	0	207,587	216,047
MOISTURE SEPARATOR REHEATERS	140,400	0	0	0	2,089,943	2,230,343
REACTOR FEEDWATER PUMPS	21,900	0	0	0	567,057	588,957
HIGH PRESSURE FEEDWATER HEATERS	43,200	0	0	0	353,676	396,876
OTHER TG BLDG	0	0	0	0	14,196,710	14,196,710
RAD WASTE BLDG	0	0	0	0	7,029,739	7,029,739
REACTOR BLDG	0	147,200	342,400	0	886,467	1,376,067
TG BLDG	0	96,600	224,700	0	598,427	919,727
RAD WASTE & CONTROL	0	87,400	203,300	0	516,485	807,185
CONCENTRATOR BOTTOMS	0	517,500	5,598,060	0	1,862,325	7,977,885
OTHER	0	140,300	485,020	0	504,897	1,130,217
POST-TMI-2 ADDITIONS	0	0	0	0	105,283	105,283
TOTAL BWR COSTS	1,197,660	1,833,100	30,760,660	0	55,470,881	89,262,301

BARNWELL COUNTY BUSINESS TAX	2,142,295
SOUTH CAROLINA LLRW DISPOSAL TAX (INSIDE SE COMPACT)	157,492,535
SOUTH CAROLINA LLRW DISPOSAL TAX (OUTSIDE SE COMPACT)	157,492,535
TOTAL BWR COSTS (INSIDE SE COMPACT)	248,897,132
TOTAL BWR COSTS (OUTSIDE SE COMPACT)	248,897,132

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.13 Burial Costs at the South Carolina Site
Reference PWR (1995 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	83,220	87,400	1,545,460	0	319,960	2,036,040
VESSEL HEAD & BOTTOM	0	92,000	214,000	0	336,800	642,800
UPPER CORE SUPPORT ASSM	0	9,200	21,400	0	33,680	64,280
UPPER SUPPORT COLUMN	0	9,200	32,400	0	33,680	75,280
UPPER CORE BARREL	0	4,600	81,340	0	16,840	102,780
UPPER CORE GRID PLATE	0	11,500	373,750	0	42,100	427,350
GUIDE TUBES	0	13,800	48,600	0	50,520	112,920
LOWER CORE BARREL[a]	0	73,600	3,865,600	0	269,440	4,208,640
THERMAL SHIELDS[a]	0	13,800	724,800	0	50,520	789,120
CORE SHROUD[a]	0	9,200	7,368,800	0	33,680	7,411,680
LOWER GRID PLATE[a]	0	11,500	1,208,000	0	42,100	1,261,600
LOWER SUPPORT COLUMN	0	2,300	93,470	0	8,420	104,190
LOWER CORE FORGING	0	25,300	356,840	0	92,620	474,760
MISC INTERNALS	0	18,400	259,520	0	67,360	345,280
BIO SHIELD CONCRETE	0	0	0	0	2,101,632	2,101,632
REACTOR CAVITY LINER	0	0	0	0	43,110	43,110
REACTOR COOLANT PUMPS	139,200	0	0	0	353,640	492,840
PRESSURIZER	22,560	0	0	0	303,120	325,680
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	33,680	33,680
PRESSURIZER RELIEF TANK	4,380	0	0	0	101,040	105,420
SAFETY INJECTION ACCUM TANKS	33,200	0	0	0	336,800	370,000
STEAM GENERATORS	480,000	0	0	0	1,798,680	2,278,680
REACTOR COOLANT PIPING	29,050	0	0	0	277,860	306,910
REMAINING CONTAM. MATLS	0	0	0	0	4,429,594	4,429,594
CONTAMINATED MATRL OTHR BLD	0	0	0	0	40,171,988	40,171,988
FILTER CARTRIDGES	0	13,800	291,600	0	26,523	331,923
SPENT RESINS	0	46,000	1,495,000	0	168,400	1,709,400
COMBUSTIBLE WASTES	0	138,000	321,000	0	852,525	1,311,525
EVAPORATOR BOTTOMS	0	216,200	2,356,940	0	791,480	3,364,620
POST-TMI-2 ADDITIONS	0	0	0	0	1,310,405	1,310,405
SUBTOTAL PWR COSTS	791,610	795,800	20,658,520	0	54,498,197	76,744,127

BARNWELL COUNTY BUSINESS TAX	1,841,859
SOUTH CAROLINA LLRW DISPOSAL TAX (INSIDE SE COMPACT)	152,103,045
SOUTH CAROLINA LLRW DISPOSAL TAX (OUTSIDE SE COMPACT)	152,103,045
TOTAL PWR COSTS (INSIDE SE COMPACT)	230,689,031
TOTAL PWR COSTS (OUTSIDE SE COMPACT)	230,689,031

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.13 Burial Costs at the South Carolina Site
Reference BWR (1995 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	64,400	680,400	0	29,723	774,523
FUEL SUPPORT & PIECES	0	32,200	680,400	0	14,903	727,503
CONTROL RODS/INCORES	12,480	18,400	966,400	0	44,626	1,041,906
CONTROL RODS GUIDES	0	27,600	72,240	0	11,872	111,712
JET PUMPS	0	92,000	972,000	0	41,679	1,105,679
TOP FUEL GUIDES	0	165,600	2,928,240	0	71,402	3,165,242
CORE SUPPORT PLATE	0	71,300	251,100	0	32,754	355,154
CORE SHROUD[a]	0	322,000	16,912,000	0	139,772	17,373,772
REACTOR VESSEL WALL	48,180	50,600	444,400	0	23,829	567,009
SAC SHIELD	75,600	0	0	0	267,588	343,188
REACT. WATER REC	58,000	0	0	0	261,694	319,694
SAC SHIELD	205,200	0	0	0	921,822	1,127,022
OTHER PRIMARY CONTAINMENT	0	0	0	0	10,514,054	10,514,054
CONTAINM. ATMOSPHERIC	4,380	0	0	0	142,719	147,099
HIGH PRESSURE CORE SPRAY	8,300	0	0	0	50,520	58,820
LOW PRESSURE CORE SPRAY	2,820	0	0	0	29,723	32,543
REACTOR BLDG CLOSED COOLING	6,570	0	0	0	95,146	101,716
REACTOR CORE ISO COOLING	2,190	0	0	0	38,648	40,838
RESIDUAL HEAT REMOVAL	19,740	0	0	0	184,398	204,138
POOL LINER & RACKS	81,000	0	0	0	1,132,911	1,213,911
CONTAMINATED CONCRETE	35,040	0	0	0	1,290,533	1,325,573
OTHER REACTOR BUILDING	0	0	0	0	4,219,262	4,219,262
TURBINE	163,560	0	0	0	4,180,698	4,344,258
NUCLEAR STEAM CONDENSATE	33,840	0	0	0	1,079,360	1,113,200
LOW PRESSURE FEEDWATER HEATERS	226,800	0	0	0	2,191,389	2,418,189
MAIN STEAM	8,460	0	0	0	211,174	219,634
MOISTURE SEPARATOR REHEATERS	140,400	0	0	0	2,126,050	2,266,450
REACTOR FEEDWATER PUMPS	21,900	0	0	0	576,854	598,754
HIGH PRESSURE FEEDWATER HEATERS	43,200	0	0	0	359,787	402,987
OTHER TG-BLDG	0	0	0	0	14,441,984	14,441,984
RAD WASTE BLDG	0	0	0	0	7,151,190	7,151,190
REACTOR BLDG	0	147,200	342,400	0	901,782	1,391,382
TG BLDG	0	96,600	224,700	0	608,766	930,066
RAD WASTE & CONTROL	0	87,400	203,300	0	525,408	816,108
CONCENTRATOR BOTTOMS	0	517,500	5,598,060	0	1,894,500	8,010,060
OTHER	0	140,300	485,020	0	513,620	1,138,940
POST-TMI-2 ADDITIONS	0	0	0	0	107,102	107,102
SUBTOTAL BWR COSTS	1,197,660	1,833,100	30,760,660	0	56,429,240	90,220,660
BARNWELL COUNTY BUSINESS TAX						2,165,296
SOUTH CAROLINA LLRW DISPOSAL TAX (INSIDE SE COMPACT)						157,492,535
SOUTH CAROLINA LLRW DISPOSAL TAX (OUTSIDE SE COMPACT)						157,492,535
TOTAL BWR COSTS (INSIDE SE COMPACT)						249,878,491
TOTAL BWR COSTS (OUTSIDE SE COMPACT)						249,878,491

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.14 Burial Costs at the South Carolina Site
Reference PWR (1994 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	64,030	68,210	1,188,640	0	272,080	1,592,960
VESSEL HEAD & BOTTOM	0	71,800	166,000	0	286,400	524,200
UPPER CORE SUPPORT ASSN	0	7,180	16,600	0	28,640	52,420
UPPER SUPPORT COLUMN	0	7,180	24,940	0	28,640	60,760
UPPER CORE BARREL	0	3,590	62,560	0	14,320	80,470
UPPER CORE GRID PLATE	0	8,975	287,500	0	35,800	332,275
GUIDE TUBES	0	10,770	37,410	0	42,960	91,140
LOWER CORE BARREL[a]	0	57,440	3,129,600	0	229,120	3,416,160
THERMAL SHIELDS[a]	0	10,770	724,800	0	42,960	778,530
CORE SHROUD[a]	0	7,180	10,574,271	0	28,640	10,610,091
LOWER GRID PLATE[a]	0	8,975	1,725,000	0	35,800	1,769,775
LOWER SUPPORT COLUMN	0	1,795	71,900	0	7,160	80,855
LOWER CORE FORGING	0	19,745	274,505	0	78,760	373,010
MISC INTERNALS	0	14,360	199,640	0	57,280	271,280
BIO SHIELD CONCRETE	0	0	0	0	1,787,136	1,787,136
REACTOR CAVITY LINER	0	0	0	0	36,659	36,659
REACTOR COOLANT PUMPS	107,400	0	0	0	300,720	408,120
PRESSURIZER	17,360	0	0	0	257,760	275,120
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	28,640	28,640
PRESSURIZER RELIEF TANK	3,370	0	0	0	85,920	89,290
SAFETY INJECTION ACCUM TANKS	25,480	0	0	0	286,400	311,880
STEAM GENERATORS	387,200	0	0	0	1,529,519	1,916,719
REACTOR COOLANT PIPING	22,295	0	0	0	236,280	258,575
REMAINING CONTAM. MATLS	0	0	0	0	3,766,733	3,766,733
CONTAMINATED MATRL OTHR BLD	0	0	0	0	34,160,503	34,160,503
FILTER CARTRIDGES	0	10,770	224,250	0	22,554	257,574
SPENT RESINS	0	35,900	1,150,000	0	143,200	1,329,100
COMBUSTIBLE WASTES	0	107,700	249,000	0	724,950	1,081,650
EVAPORATOR BOTTOMS	0	168,730	1,815,395	0	673,040	2,657,165
POST-TMI-2 ADDITIONS	0	0	0	0	1,114,311	1,114,311
SUBTOTAL PWR COSTS	627,135	621,070	21,922,011	0	46,342,885	69,513,101
BARNWELL COUNTY BUSINESS TAX						1,668,314
SOUTHEAST COMPACT ACCESS FEE (IN-REGION)						47,896,278
SOUTHEAST COMPACT ACCESS FEE (OUT-OF-REGION)						142,394,340
TOTAL PWR COSTS (IN-REGION)						119,077,693
TOTAL PWR COSTS (OUT-OF-REGION)						213,575,755

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.14 Burial Costs at the South Carolina Site
Reference BWR (1994 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	50,260	523,250	0	25,275	598,785
FUEL SUPPORT & PIECES	0	25,130	523,250	0	12,673	561,053
CONTROL RODS/INCORES	9,600	14,360	966,400	0	37,948	1,028,308
CONTROL RODS GUIDES	0	21,540	56,520	0	10,096	88,156
JET PUMPS	0	71,800	747,500	0	35,442	854,742
TOP FUEL GUIDES	0	129,240	2,252,160	0	60,717	2,442,117
CORE SUPPORT PLATE	0	55,645	193,285	0	27,852	276,782
CORE SHROUD[a]	0	251,300	24,150,000	0	118,856	24,520,156
REACTOR VESSEL WALL	37,070	39,490	341,550	0	20,263	438,373
SAC SHIELD	58,590	0	0	0	227,545	286,135
REACT. WATER REC	52,500	0	0	0	222,533	275,033
SAC SHIELD	159,030	0	0	0	783,877	942,907
OTHER PRIMARY CONTAINMENT	0	0	0	0	8,940,692	8,940,692
CONTAINM. ATMOSPHERIC	3,370	0	0	0	121,362	124,732
HIGH PRESSURE CORE SPRAY	6,370	0	0	0	42,960	49,330
LOW PRESSURE CORE SPRAY	2,170	0	0	0	25,275	27,445
REACTOR BLDG CLOSED COOLING	5,055	0	0	0	80,908	85,963
REACTOR CORE ISO COOLING	1,685	0	0	0	32,864	34,549
RESIDUAL HEAT REMOVAL	15,190	0	0	0	156,804	171,994
POOL LINER & RACKS	62,775	0	0	0	963,378	1,026,153
CONTAMINATED CONCRETE	26,960	0	0	0	1,097,413	1,124,373
OTHER REACTOR BUILDING	0	0	0	0	3,587,876	3,587,876
TURBINE	125,860	0	0	0	3,555,083	3,680,943
NUCLEAR STEAM CONDENSATE	26,040	0	0	0	917,840	943,880
LOW PRESSURE FEEDWATER HEATERS	175,770	0	0	0	1,863,462	2,039,232
MAIN STEAM	6,510	0	0	0	179,573	186,083
MOISTURE SEPARATOR REHEATERS	108,810	0	0	0	1,807,900	1,916,710
REACTOR FEEDWATER PUMPS	16,850	0	0	0	490,532	507,382
HIGH PRESSURE FEEDWATER HEATERS	33,480	0	0	0	305,947	339,427
OTHER TG BLDG	0	0	0	0	12,280,832	12,280,832
RAD WASTE BLDG	0	0	0	0	6,081,060	6,081,060
REACTOR BLDG	0	116,880	265,600	0	766,836	1,147,316
TG BLDG	0	75,390	174,300	0	517,668	767,358
RAD-WASTE & CONTROL	0	68,210	157,700	0	446,784	672,694
CONCENTRATOR BOTTOMS	0	403,875	4,311,890	0	1,611,000	6,326,765
OTHER	0	109,495	376,515	0	436,760	922,770
POST-TMI-2 ADDITIONS	0	0	0	0	91,075	91,075
SUBTOTAL BWR COSTS	933,685	1,430,615	35,039,920	0	47,984,960	85,389,180
BARNWELL COUNTY BUSINESS TAX						2,049,340
SOUTHEAST COMPACT ACCESS FEE (IN-REGION)						49,593,394
SOUTHEAST COMPACT ACCESS FEE (OUT-OF-REGION)						147,439,820
TOTAL BWR COSTS (IN-REGION)						137,031,914
TOTAL BWR COSTS (OUT-OF-REGION)						234,878,340

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.15 Burial Costs at the South Carolina Site
Reference PWR (1993 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	64,030	68,210	1,188,640	0	224,200	1,545,080
VESSEL HEAD & BOTTOM	0	71,800	166,000	0	236,000	473,800
UPPER CORE SUPPORT ASSM	0	7,180	16,600	0	23,600	47,380
UPPER SUPPORT COLUMN	0	7,180	24,940	0	23,600	55,720
UPPER CORE BARREL	0	3,590	62,560	0	11,800	77,950
UPPER CORE GRID PLATE	0	8,975	287,500	0	29,500	325,975
GUIDE TUBES	0	10,770	37,410	0	35,400	83,580
LOWER CORE BARREL[a]	0	57,440	3,129,600	0	188,800	3,375,840
THERMAL SHIELDS[a]	0	10,770	724,800	0	35,400	770,970
CORE SHROUD[a]	0	7,180	10,574,271	0	23,600	10,605,051
LOWER GRID PLATE[a]	0	8,975	1,725,800	0	29,500	1,763,475
LOWER SUPPORT COLUMN	0	1,795	71,900	0	5,900	79,595
LOWER CORE FORGING	0	19,745	274,505	0	64,900	359,150
MISC INTERNALS	0	14,360	199,640	0	47,200	261,200
BIO SHIELD CONCRETE	0	0	0	0	1,472,640	1,472,640
REACTOR CAVITY LINER	0	0	0	0	30,208	30,208
REACTOR COOLANT PUMPS	107,400	0	0	0	247,800	355,200
PRESSURIZER	17,360	0	0	0	212,400	229,760
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	23,600	23,600
PRESSURIZER RELIEF TANK	3,370	0	0	0	70,800	74,170
SAFETY INJECTION ACCUM TANKS	25,480	0	0	0	236,000	261,480
STEAM GENERATORS	387,200	0	0	0	1,260,358	1,647,558
REACTOR COOLANT PIPING	22,295	0	0	0	194,700	216,995
REMAINING CONTAM. MATLS	0	0	0	0	3,103,872	3,103,872
CONTAMINATED MATRL OTHR BLD	0	0	0	0	28,149,018	28,149,018
FILTER CARTRIDGES	0	10,770	224,250	0	18,585	253,605
SPENT RESINS	0	35,900	1,150,000	0	118,000	1,303,900
COMBUSTIBLE WASTES	0	107,700	249,000	0	597,375	954,075
EVAPORATOR BOTTOMS	0	168,730	1,815,395	0	554,600	2,538,725
POST-TMI-2 ADDITIONS	0	0	0	0	918,217	918,217
SUBTOTAL PWR COSTS	627,135	621,070	21,922,011	0	38,187,573	61,357,789

BARNWELL COUNTY BUSINESS TAX	1,472,587
SOUTHEAST COMPACT ACCESS FEE (IN-REGION)	47,896,278
SOUTHEAST COMPACT ACCESS FEE (OUT-OF-REGION)	142,394,340
TOTAL PWR COSTS (IN-REGION)	110,726,654
TOTAL PWR COSTS (OUT-OF-REGION)	205,224,716

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.15 Burial Costs at the South Carolina Site
Reference BWR (1993 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	50,260	523,250	0	20,827	594,337
FUEL SUPPORT & PIECES	0	25,130	523,250	0	10,443	558,823
CONTROL RODS/INCORES	9,600	14,360	966,400	0	31,270	1,021,630
CONTROL RODS GUIDES	0	21,540	56,520	0	8,319	86,379
JET PUMPS	0	71,800	747,500	0	29,205	848,505
TOP FUEL GUIDES	0	129,240	2,252,160	0	50,032	2,431,432
CORE SUPPORT PLATE	0	55,645	193,285	0	22,951	271,881
CORE SHROUD[a]	0	251,300	24,150,000	0	97,940	24,499,240
REACTOR VESSEL WALL	37,070	39,490	341,550	0	16,697	434,807
SAC SHIELD	58,590	0	0	0	187,502	246,092
REACT. WATER REC	52,500	0	0	0	183,372	235,872
SAC SHIELD	159,030	0	0	0	645,932	804,962
OTHER PRIMARY CONTAINMENT	0	0	0	0	7,367,330	7,367,330
CONTAINM. ATMOSPHERIC	3,370	0	0	0	100,005	103,375
HIGH PRESSURE CORE SPRAY	6,370	0	0	0	35,400	41,770
LOW PRESSURE CORE SPRAY	2,170	0	0	0	20,827	22,997
REACTOR BLDG CLOSED COOLING	5,055	0	0	0	66,670	71,725
REACTOR CORE ISO COOLING	1,685	0	0	0	27,081	28,766
RESIDUAL HEAT REMOVAL	15,190	0	0	0	129,210	144,400
POOL LINER & RACKS	62,775	0	0	0	793,845	856,620
CONTAMINATED CONCRETE	26,960	0	0	0	904,293	931,253
OTHER REACTOR BUILDING	0	0	0	0	2,956,490	2,956,490
TURBINE	125,860	0	0	0	2,929,468	3,055,328
NUCLEAR STEAM CONDENSATE	26,040	0	0	0	756,321	782,361
LOW PRESSURE FEEDWATER HEATERS	175,770	0	0	0	1,535,534	1,711,304
MAIN STEAM	6,510	0	0	0	147,972	154,482
MOISTURE SEPARATOR REHEATERS	108,810	0	0	0	1,489,750	1,598,560
REACTOR FEEDWATER PUMPS	16,850	0	0	0	404,209	421,059
HIGH PRESSURE FEEDWATER HEATERS	33,480	0	0	0	252,107	285,587
OTHER TB BLDG	0	0	0	0	10,119,680	10,119,680
RAD WASTE BLDG	0	0	0	0	5,010,929	5,010,929
REACTOR BLDG	0	114,880	265,600	0	631,890	1,012,370
TB BLDG	0	75,390	174,300	0	426,570	676,260
RAD WASTE & CONTROL	0	68,210	157,700	0	368,160	594,070
CONCENTRATOR BOTTOMS	0	403,875	4,311,890	0	1,327,500	6,043,265
OTHER	0	109,495	376,515	0	359,900	845,910
POST-TMI-2 ADDITIONS	0	0	0	0	75,048	75,048
SUBTOTAL BWR COSTS	933,685	1,430,615	35,039,920	0	39,540,679	76,944,899
BARNWELL COUNTY BUSINESS TAX						1,846,678
SOUTHEAST COMPACT ACCESS FEE (IN-REGION)						49,593,394
SOUTHEAST COMPACT ACCESS FEE (OUT-OF-REGION)						147,439,820
TOTAL BWR COSTS (IN-REGION)						128,384,971
TOTAL BWR COSTS (OUT-OF-REGION)						226,231,397

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.16 Burial Costs at the South Carolina Site
Reference PWR (1991 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	55,670	59,280	1,033,600	0	155,914	1,304,464
VESSEL HEAD & BOTTOM	0	62,400	144,600	0	164,120	371,120
UPPER CORE SUPPORT ASSM	0	6,240	14,460	0	16,412	37,112
UPPER SUPPORT COLUMN	0	6,240	14,460	0	16,412	37,112
UPPER CORE BARREL	0	3,120	54,400	0	8,206	65,726
UPPER CORE GRID PLATE	0	7,800	217,000	0	20,515	245,315
GUIDE TUBES	0	9,360	81,000	0	24,618	114,978
LOWER CORE BARREL[a]	0	49,920	2,409,600	0	131,296	2,590,816
THERMAL SHIELDS[a]	0	9,360	451,800	0	24,618	485,778
CORE SHROUD[a]	0	6,240	8,296,000	0	16,412	8,318,652
LOWER GRID PLATE[a]	0	7,800	1,360,000	0	20,515	1,388,315
LOWER SUPPORT COLUMN	0	1,560	55,000	0	4,103	60,663
LOWER CORE FORGING	0	17,160	238,700	0	45,133	300,993
MISC INTERNALS	0	12,480	173,600	0	32,824	218,904
BIO SHIELD CONCRETE	0	0	0	0	1,024,109	1,024,109
REACTOR CAVITY LINER	0	0	0	0	21,007	21,007
REACTOR COOLANT PUMPS	93,600	0	0	0	172,326	265,926
PRESSURIZER	15,080	0	0	0	147,708	162,788
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	16,412	16,412
PRESSURIZER RELIEF TANK	2,930	0	0	0	49,236	52,166
SAFETY INJECTION ACCUM TANKS	22,160	0	0	0	164,120	186,280
STEAM GENERATORS	336,000	0	0	0	876,483	1,212,483
REACTOR COOLANT PIPING	19,390	0	0	0	135,399	154,789
REMAINING CONTAM. MATLS	0	0	0	0	2,158,506	2,158,506
CONTAMINATED MATRL OTHR BLD	0	0	0	0	19,575,495	19,575,495
FILTER CARTRIDGES	0	9,360	195,000	0	12,924	217,284
SPENT RESINS	0	31,200	868,000	0	82,060	981,260
COMBUSTIBLE WASTES	0	93,600	216,900	0	415,429	725,929
EVAPORATOR BOTTOMS	0	146,640	339,810	0	385,682	872,132
POST-TMI-2 ADDITIONS	0	0	0	0	638,550	638,550
SUBTOTAL PWR COSTS	544,830	539,760	16,163,930	0	26,556,544	43,805,064
~~BARNWELL COUNTY BUSINESS TAX (2.4%)~~						~~1,051,322~~
TOTAL PWR COSTS						44,856,386

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.16 Burial Costs at the South Carolina Site
Reference BWR (1991 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	43,680	770,000	0	14,484	828,164
FUEL SUPPORT & PIECES	0	21,840	455,000	0	7,262	484,102
CONTROL RODS/INCORES	4,680	12,480	766,400	0	21,746	805,306
CONTROL RODS GUIDES	0	18,720	43,380	0	5,785	67,885
JET PUMPS	0	62,400	650,000	0	20,310	732,710
TOP FUEL GUIDES	0	112,320	1,958,400	0	34,834	2,105,554
CORE SUPPORT PLATE	0	48,360	168,020	0	16,002	232,382
CORE SHROUD[a]	0	218,400	19,040,000	0	68,110	19,326,510
REACTOR VESSEL WALL	32,230	34,320	297,000	0	10,545	374,095
SAC SHIELD	50,960	0	0	0	147,544	198,504
REACT. WATER REC	45,500	0	0	0	127,603	173,103
SAC SHIELD	138,320	0	0	0	449,279	587,599
OTHER PRIMARY CONTAINMENT	0	0	0	0	5,123,334	5,123,334
CONTAINM. ATMOSPHERIC	2,930	0	0	0	69,505	72,435
HIGH PRESSURE CORE SPRAY	5,540	0	0	0	24,618	30,158
LOW PRESSURE CORE SPRAY	1,885	0	0	0	14,566	16,451
REACTOR BLDG CLOSED COOLING	4,395	0	0	0	46,446	50,841
REACTOR CORE COOLING	1,465	0	0	0	18,874	20,339
RESIDUAL HEAT REMOVAL	13,195	0	0	0	89,938	103,133
POOL LINES & RACKS	54,600	0	0	0	551,977	606,577
CONTAMINATED CONCRETE	23,440	0	0	0	628,785	652,225
OTHER REACTOR BUILDING	0	0	0	0	2,056,301	2,056,301
TURBINE	109,330	0	0	0	2,036,934	2,146,264
NUCLEAR STEAM CONDENSATE	22,620	0	0	0	525,964	548,584
LOW PRESSURE FEEDWATER HEATERS	152,880	0	0	0	1,067,847	1,220,727
MAIN STEAM	5,655	0	0	0	102,944	108,599
MOISTURE SEPARATOR REHEATERS	94,640	0	0	0	1,035,802	1,130,442
REACTOR FEEDWATER PUMPS	14,650	0	0	0	282,574	297,224
HIGH PRESSURE FEEDWATER HEATERS	29,120	0	0	0	175,280	204,400
OTHER TG BLDG	0	0	0	0	7,051,580	7,051,580
RAD WASTE BLDG	0	0	0	0	3,484,760	3,484,760
REACTOR BLDG	0	99,840	231,360	0	439,431	770,631
TG BLDG	0	65,520	151,830	0	296,647	513,997
RAD WASTE & CONTROL	0	59,280	137,370	0	256,027	452,677
CONCENTRATOR BOTTOMS	0	351,000	813,375	0	923,175	2,087,550
OTHER	0	95,160	220,515	0	250,283	565,958
POST-TMI-2 ADDITIONS	0	0	0	0	52,190	52,190
SUBTOTAL BWR COSTS	808,035	1,243,320	25,702,650	0	27,529,284	55,283,289
BARNWELL COUNTY BUSINESS TAX (2.4%)						1,326,799
TOTAL BWR COSTS						56,610,088

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.17 Burial Costs at the South Carolina Site
Reference PWR (1988 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	38,380	38,000	718,400	0	134,216	924,996
VESSEL HEAD & BOTTOM	0	40,000	100,000	0	141,280	281,280
UPPER CORE SUPPORT ASSM	0	4,000	10,000	0	14,128	28,128
UPPER SUPPORT COLUMN	0	4,000	10,000	0	14,128	28,128
UPPER CORE BARREL	0	2,000	37,600	0	7,064	46,664
UPPER CORE GRID PLATE	0	5,000	150,000	0	17,660	172,660
GUIDE TUBES	0	6,000	56,100	0	21,192	83,292
LOWER CORE BARREL[a]	0	32,000	1,824,000	0	113,024	1,969,024
THERMAL SHIELDS[a]	0	6,000	360,000	0	21,192	387,192
CORE SHROUD[a]	0	4,000	6,100,000	0	14,128	6,118,128
LOWER GRID PLATE[a]	0	5,000	1,000,000	0	17,660	1,022,660
LOWER SUPPORT COLUMN	0	1,000	36,500	0	3,532	41,032
LOWER CORE FORGING	0	11,000	165,000	0	38,852	214,852
MISC INTERNALS	0	8,000	120,000	0	28,256	156,256
BIO SHIELD CONCRETE	0	0	0	0	881,587	881,587
REACTOR CAVITY LINER	0	0	0	0	18,084	18,084
REACTOR COOLANT PUMPS	36,848	0	0	0	148,344	185,192
PRESSURIZER	10,480	0	0	0	127,152	137,632
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	14,128	14,128
PRESSURIZER RELIEF TANK	2,020	0	0	0	42,384	44,404
SAFETY INJECTION ACCUM TANKS	15,320	0	0	0	141,280	156,600
STEAM GENERATORS	134,848	0	0	0	754,506	889,354
REACTOR COOLANT PIPING	13,405	0	0	0	116,556	129,961
REMAINING CONTAM. MATLS	0	0	0	0	1,858,115	1,858,115
CONTAMINATED MATRL OTHR BLD	0	0	0	0	16,851,243	16,851,243
FILTER CARTRIDGES	0	6,000	135,000	0	11,126	152,126
SPENT RESINS	0	20,000	600,000	0	70,640	690,640
COMBUSTIBLE WASTES	0	60,000	150,000	0	357,615	567,615
EVAPORATOR BOTTOMS	0	94,000	235,000	0	332,008	661,008
POST-TMI-2 ADDITIONS	0	0	0	0	549,685	549,685
SUBTOTAL PWR COSTS	251,301	346,000	11,803,600	0	22,860,764	35,261,665
BARNWELL COUNTY BUSINESS TAX (2.4%)						846,280
TOTAL PWR COSTS						36,107,945

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.17 Burial Costs at the South Carolina Site

Reference BWR (1988 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	28,000	529,200	0	12,468	569,668
FUEL SUPPORT & PIECES	0	14,000	315,000	0	6,252	335,252
CONTROL RODS/INCORES	3,240	8,000	529,600	0	18,720	559,560
CONTROL RODS GUIDES	0	12,000	30,000	0	4,980	46,980
JET PUMPS	0	40,000	450,000	0	17,483	507,483
TOP FUEL GUIDES	0	72,000	1,353,600	0	29,987	1,455,587
CORE SUPPORT PLATE	0	31,000	116,250	0	13,775	161,025
CORE SHROUD[a]	0	140,000	13,230,000	0	58,631	13,428,631
REACTOR VESSEL WALL	22,220	22,000	205,700	0	9,077	258,997
SAC SHIELD	35,280	0	0	0	127,011	162,291
REACT. WATER REC	19,551	0	0	0	109,845	129,396
SAC SHIELD	95,760	0	0	0	386,754	482,514
OTHER PRIMARY CONTAINMENT	0	0	0	0	4,410,338	4,410,338
CONTAIN. ATMOSPHERIC	2,020	0	0	0	59,832	61,852
HIGH PRESSURE CORE SPRAY	3,830	0	0	0	21,192	25,022
LOW PRESSURE CORE SPRAY	1,310	0	0	0	12,539	13,849
REACTOR BLDG CLOSED COOLING	3,030	0	0	0	39,982	43,012
REACTOR CORE COOLING	1,010	0	0	0	16,247	17,257
RESIDUAL HEAT REMOVAL	9,170	0	0	0	77,421	86,591
POOL LINES & RACKS	37,800	0	0	0	475,160	512,960
CONTAMINATED CONCRETE	16,160	0	0	0	541,279	557,439
OTHER REACTOR BUILDING	0	0	0	0	1,770,132	1,770,132
TURBINE	75,980	0	0	0	1,753,461	1,829,441
NUCLEAR STEAM CONDENSATE	15,720	0	0	0	452,767	468,487
LOW PRESSURE FEEDWATER HEATERS	105,840	0	0	0	919,238	1,025,078
MAIN STEAM	3,930	0	0	0	88,618	92,548
MOISTURE SEPARATOR REHEATERS	65,520	0	0	0	891,653	957,173
REACTOR FEEDWATER PUMPS	10,100	0	0	0	243,249	253,349
HIGH PRESSURE FEEDWATER HEATERS	20,160	0	0	0	150,887	171,047
OTHER TG BLDG	0	0	0	0	6,070,236	6,070,236
RAD WASTE BLDG	0	0	0	0	2,999,798	2,999,798
REACTOR BLDG	0	64,000	160,000	0	378,277	602,277
TG BLDG	0	42,000	105,000	0	255,364	402,364
RAD WASTE & CONTROL	0	38,000	95,000	0	220,397	353,397
CONCENTRATOR BOTTOMS	0	225,000	562,500	0	794,700	1,582,200
OTHER	0	61,000	152,500	0	215,452	428,952
POST-TMI-2 ADDITIONS	0	0	0	0	44,927	44,927
SUBTOTAL BWR COSTS	547,631	797,000	17,834,350	0	23,698,131	42,877,112
BARNWELL COUNTY BUSINESS TAX (2.4%)						1,029,051
TOTAL BWR COSTS						43,906,162

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.18 Burial Costs at the South Carolina Site
Reference PWR (1986 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	34,580	26,600	714,400	0	106,400	881,980
VESSEL HEAD & BOTTOM	0	28,000	0	0	112,000	140,000
UPPER CORE SUPPORT ASSM	0	2,800	0	0	11,200	14,000
UPPER SUPPORT COLUMN	0	2,800	0	0	11,200	14,000
UPPER CORE BARREL	0	1,400	37,600	0	5,600	44,600
UPPER CORE GRID PLATE	0	3,500	150,000	0	14,000	167,500
GUIDE TUBES	0	4,200	56,100	0	16,800	77,100
LOWER CORE BARREL[a]	0	22,400	1,824,000	0	89,600	1,936,000
THERMAL SHIELDS[a]	0	4,200	360,000	0	16,800	381,000
CORE SHROUD[a]	0	2,800	6,100,000	0	11,200	6,114,000
LOWER GRID PLATE[a]	0	3,500	1,000,000	0	14,000	1,017,500
LOWER SUPPORT COLUMN	0	700	36,500	0	2,800	40,000
LOWER CORE FORGING	0	7,700	165,000	0	30,800	203,500
MISC INTERNALS	0	5,600	120,000	0	22,400	148,000
BIO SHIELD CONCRETE	0	0	0	0	698,880	698,880
REACTOR CAVITY LINER	0	0	0	0	14,336	14,336
REACTOR COOLANT PUMPS	36,848	0	0	0	117,600	154,448
PRESSURIZER	9,680	0	0	0	100,800	110,480
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	11,200	11,200
PRESSURIZER RELIEF TANK	1,820	0	0	0	33,600	35,420
SAFETY INJECTION ACCUM TANKS	14,520	0	0	0	112,000	126,520
STEAM GENERATORS	134,848	0	0	0	598,136	732,984
REACTOR COOLANT PIPING	12,705	0	0	0	92,400	105,105
REMAINING CONTAM. MATLS	0	0	0	0	1,473,024	1,473,024
CONTAMINATED MATRL OTHR BLD	0	0	0	0	13,358,856	13,358,856
FILTER CARTRIDGES	0	4,200	135,000	0	8,820	148,020
SPENT RESINS	0	14,000	600,000	0	56,000	670,000
COMBUSTIBLE WASTES	0	42,000	0	0	283,500	325,500
EVAPORATOR BOTTOMS	0	65,800	0	0	263,200	329,000
SUBTOTAL PWR COSTS	245,001	242,200	11,298,600	0	17,687,152	29,472,953
BARNWELL COUNTY BUSINESS TAX (2.4%)						707,351
TOTAL PWR COSTS						30,180,304

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.18. Burial Costs at the South Carolina Site

Reference BWR (1986 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	19,600	529,200	0	9,884	558,684
FUEL SUPPORT & PIECES	0	9,800	315,000	0	4,956	329,756
CONTROL RODS/INCORES	2,440	5,600	529,600	0	14,840	552,480
CONTROL RODS GUIDES	0	8,400	0	0	3,948	12,348
JET PUMPS	0	28,000	450,000	0	13,860	491,860
TOP FUEL GUIDES	0	50,400	1,353,600	0	23,772	1,427,772
CORE SUPPORT PLATE	0	21,700	116,250	0	10,920	148,870
CORE SHROUD[a]	0	98,000	13,230,000	0	46,480	13,374,480
REACTOR VESSEL WALL	20,020	15,400	205,700	0	7,196	248,316
SAC SHIELD	33,880	0	0	0	100,688	134,568
REACT. WATER REC	19,551	0	0	0	87,080	106,631
SAC SHIELD	91,960	0	0	0	306,600	398,560
OTHER PRIMARY CONTAINMENT	0	0	0	0	3,496,304	3,496,304
CONTAINM. ATMOSPHERIC	1,820	0	0	0	47,432	49,252
HIGH PRESSURE CORE SPRAY	3,630	0	0	0	16,800	20,430
LOW PRESSURE CORE SPRAY	1,210	0	0	0	9,940	11,150
REACTOR BLDG CLOSED COOLING	2,730	0	0	0	31,696	34,426
REACTOR CORE COOLING	910	0	0	0	12,880	13,790
RESIDUAL HEAT REMOVAL	8,470	0	0	0	61,376	69,846
POOL LINES & RACKS	36,300	0	0	0	376,684	412,984
CONTAMINATED CONCRETE	14,560	0	0	0	429,100	443,660
OTHER REACTOR BUILDING	0	0	0	0	1,403,276	1,403,276
TURBINE	70,180	0	0	0	1,390,060	1,460,240
NUCLEAR STEAM CONDENSATE	14,520	0	0	0	358,932	373,452
LOW PRESSURE FEEDWATER HEATERS	101,640	0	0	0	728,728	830,368
MAIN STEAM	3,630	0	0	0	70,252	73,882
MOISTURE SEPARATOR REHEATERS	62,920	0	0	0	706,860	769,780
REACTOR FEEDWATER PUMPS	9,100	0	0	0	192,836	201,936
HIGH PRESSURE FEEDWATER HEATERS	19,360	0	0	0	119,616	138,976
OTHER TG BLDG	0	0	0	0	4,812,192	4,812,192
RAD WASTE BLDG	0	0	0	0	2,378,096	2,378,096
REACTOR BLDG	0	44,800	0	0	299,880	344,680
TG BLDG	0	29,400	0	0	202,440	231,840
RAD WASTE & CONTROL	0	26,600	0	0	174,720	201,320
CONCENTRATOR BOTTOMS	0	157,500	0	0	630,000	787,500
OTHER	0	42,700	0	0	170,800	213,500
SUBTOTAL BWR COSTS	518,831	557,900	16,729,350	0	18,751,124	36,557,205
BARNWELL COUNTY BUSINESS TAX (2.4%)						877,373
TOTAL BWR COSTS						37,434,578

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.19 Disposition Costs using Waste Vendors with Burial Costs at the Washington Site
Reference PWR (1998 dollars)

COMPONENT	VOLUME CHARGE	SHIPMENT CHARGE	CONTAINER CHARGE	LINER DOSE RATE CHARGE	WASTE VENDOR CHARGE	DISPOSAL COST
VESSEL WALL	116,280	238,640	44,004	2,147,000	0	2,545,924
VESSEL HEAD & BOTTOM	122,400	251,200	46,320	0	0	419,920
UPPER CORE SUPPORT ASSM	12,240	25,120	4,632	151,200	0	193,192
UPPER SUPPORT COLUMN	12,240	25,120	4,632	151,200	0	193,192
UPPER CORE BARREL	6,120	12,560	2,316	113,000	0	133,996
UPPER CORE GRID PLATE	15,300	31,400	5,790	282,500	0	334,990
GUIDE TUBES	18,360	37,680	6,948	226,800	0	289,788
LOWER CORE BARREL[a]	97,920	200,960	37,056	1,808,000	0	2,143,936
THERMAL SHIELDS[a]	18,360	37,680	6,948	339,000	0	401,988
CORE SHROUD[a]	12,240	25,120	4,632	26,000	0	267,992
LOWER GRID PLATE[a]	15,300	31,400	5,790	282,500	0	334,990
LOWER SUPPORT COLUMN	3,060	6,280	1,158	56,500	0	66,998
LOWER CORE FORGING	33,660	69,080	12,738	621,500	0	736,978
MISC INTERNALS	24,480	50,240	9,264	452,000	0	535,984
BIO SHIELD CONCRETE	0	0	0	0	3,235,923	3,235,923
REACTOR CAVITY LINER	15,667	6,280	4,632	0	0	26,579
REACTOR COOLANT PUMPS	0	0	0	0	1,247,905	1,247,905
PRESSURIZER	0	0	0	0	323,592	323,592
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	19,581	19,581
PRESSURIZER RELIEF TANK	0	0	0	0	45,137	45,137
SAFETY INJECTION ACCUM TANKS	0	0	0	0	507,791	507,791
STEAM GENERATORS	0	0	0	0	4,566,800	4,566,800
REACTOR COOLANT PIPING	0	0	0	0	368,394	368,394
REMAINING CONTAM. MATLS	0	0	0	0	6,512,503	6,512,503
CONTAMINATED MATRL OTHR BLD	0	0	0	0	50,100,903	50,100,903
FILTER CARTRIDGES	0	0	0	0	89,610	89,610
SPENT RESINS	0	0	0	0	298,701	298,701
COMBUSTIBLE WASTES	0	0	0	0	896,102	896,102
EVAPORATOR BOTTOMS	287,640	590,320	188,852	1,676,341	0	2,663,153
POST-TMI-2 ADDITIONS	476,228	0	0	0	0	476,228
HEAVY OBJECT CHARGE						0
SITE AVAILABILITY CHARGES, (3 YRS)						413,462
SUBTOTAL PWR COSTS	1,287,495	1,639,080	305,712	8,533,541	68,212,943	80,392,213
TAXES & FEES (% OF CHARGES)						523,709
TAXES & FEES ($/CU.FT.)						599,569
ANNUAL PERMIT FEES (3 YRS)						120,000
TOTAL PWR COSTS						81,635,491

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.20 Disposition Costs using Waste Vendors with Burial Costs at the South Carolina Site

Reference PWR (1998 dollars)

COMPONENT	BASE DISPOSAL CHARGE	CASK HANDLING	CURIE SURCHARGE	DOSE RATE SURCHARGE	WASTE VENDOR CHARGE	DISPOSAL COST
VESSEL WALL	2,379,200	1,140,000	4,560,000	1,142,016	0	9,221,216
VESSEL HEAD & BOTTOM	1,515,780	1,200,000	6,000	0	0	2,721,780
UPPER CORE SUPPORT ASSM	143,100	120,000	3,000	45,792	0	311,892
UPPER SUPPORT COLUMN	132,300	120,000	30,000	42,336	0	324,636
UPPER CORE BARREL	63,000	60,000	240,000	30,240	0	393,240
UPPER CORE GRID PLATE	157,500	150,000	600,000	75,600	0	983,100
GUIDE TUBES	233,100	180,000	30,000	62,937	0	506,037
LOWER CORE BARREL[a]	1,008,000	960,000	3,840,000	483,840	0	6,291,840
THERMAL SHIELDS[a]	189,000	180,000	720,000	90,720	0	1,179,720
CORE SHROUD[a]	108,400	120,000	7,320,000	52,032	0	7,600,432
LOWER GRID PLATE[a]	38,280	150,000	1,200,000	18,374	0	1,406,654
LOWER SUPPORT COLUMN	39,960	30,000	120,000	19,181	0	209,141
LOWER CORE FORGING	434,160	330,000	750,000	208,397	0	1,722,557
MISC INTERNALS	352,000	240,000	600,000	168,960	0	1,360,960
BIO SHIELD CONCRETE	0	0	0	0	3,235,923	3,235,923
REACTOR CAVITY LINER	172,800	0	3,000	0	0	175,800
REACTOR COOLANT PUMPS	0	0	0	0	1,247,905	1,247,905
PRESSURIZER	0	0	0	0	323,592	323,592
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	19,581	19,581
PRESSURIZER RELIEF TANK	0	0	0	0	45,137	45,137
SAFETY INJECTION ACCUM TANKS	0	0	0	0	507,791	507,791
STEAM GENERATORS	0	0	0	0	4,566,800	4,566,800
REACTOR COOLANT PIPING	0	0	0	0	368,394	368,394
REMAINING CONTAM. MATLS	0	0	0	0	6,512,503	6,512,503
CONTAMINATED MATRL OTHR BLD	0	0	0	0	50,100,903	50,100,903
FILTER CARTRIDGES	0	0	0	0	89,610	89,610
SPENT RESINS	0	0	0	0	298,701	298,701
COMBUSTIBLE WASTES	0	0	0	0	896,102	896,102
EVAPORATOR BOTTOMS	3,722,400	2,820,000	11,280,000	508,464	0	18,330,864
POST-TMI-2 ADDITIONS	7,470,863	0	0	0	0	7,470,863
SITE ACCESS FEES, (3 YRS)						615,000
SUBTOTAL PWR COSTS	18,159,843	7,800,000	31,302,000	2,948,889	68,212,943	129,038,675
TAXES AND SURCHARGES						0
TOTAL PWR COSTS						129,038,675

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.20 Disposition Costs using Waste Vendors with Burial Costs at the South Carolina Site

Reference BWR (1998 dollars)

COMPONENT	BASE DISPOSAL CHARGE	CASK HANDLING	CURIE SURCHARGE	DOSE RATE SURCHARGE	WASTE VENDOR CHARGE	DISPOSAL COST
STEAM SEPARATOR	146,216	840,000	1,680,000	70,184	0	2,736,400
FUEL SUPPORT & PIECES	64,411	420,000	210,000	30,917	0	725,329
CONTROL RODS/INCORES	191,770	240,000	960,000	92,049	0	1,483,819
CONTROL RODS GUIDES	53,900	360,000	30,000	19,943	0	463,843
JET PUMPS	155,925	1,200,000	2,400,000	74,844	0	3,830,769
TOP FUEL GUIDES	267,120	2,160,000	8,640,000	128,218	0	11,195,338
CORE SUPPORT PLATE	179,080	930,000	195,000	66,260	0	1,370,340
CORE SHROUD[a]	522,900	4,200,000	16,800,000	250,992	0	21,773,892
REACTOR VESSEL WALL	113,767	660,000	648,000	42,094	0	1,463,861
SAC SHIELD	0	0	0	0	1,156,150	1,156,150
REACT. WATER REC	0	0	0	0	370,562	370,562
SAC SHIELD	0	0	0	0	2,994,078	2,994,078
OTHER PRIMARY CONTAINMENT	0	0	0	0	11,999,265	11,999,265
CONTAINM. ATMOSPHERIC	0	0	0	0	48,302	48,302
HIGH PRESSURE CORE SPRAY	0	0	0	0	117,856	117,856
LOW PRESSURE CORE SPRAY	0	0	0	0	42,505	42,505
REACTOR BLDG CLOSED COOLING	0	0	0	0	115,615	115,615
REACTOR CORE ISO COOLING	0	0	0	0	37,532	37,532
RESIDUAL HEAT REMOVAL	0	0	0	0	355,503	355,503
POOL LINER & RACKS	0	0	0	0	1,473,661	1,473,661
CONTAMINATED CONCRETE	0	0	0	0	2,106,991	2,106,991
OTHER REACTOR BUILDING	0	0	0	0	2,625,947	2,625,947
TURBINE	0	0	0	0	7,067,707	7,067,707
NUCLEAR STEAM CONDENSATE	0	0	0	0	934,140	934,140
LOW PRESSURE FEEDWATER HEATERS	0	0	0	0	3,136,896	3,136,896
MAIN STEAM	0	0	0	0	137,178	137,178
MOISTURE SEPARATOR REHEATERS	0	0	0	0	1,773,791	1,773,791
REACTOR FEEDWATER PUMPS	0	0	0	0	466,581	466,581
HIGH PRESSURE FEEDWATER HEATERS	0	0	0	0	624,659	624,659
OTHER TG BLDG	0	0	0	0	13,558,135	13,558,135
RAD WASTE BLDG	0	0	0	0	4,630,960	4,630,960
REACTOR BLDG	0	0	0	0	3,303,554	3,303,554
TG BLDG	0	0	0	0	2,173,391	2,173,391
RAD WASTE & CONTROL	0	0	0	0	1,999,520	1,999,520
CONCENTRATOR BOTTOMS	15,297,858	6,750,000	27,000,000	2,072,350	0	51,120,208
OTHER	4,147,419	1,830,000	287,700	103,346	0	6,368,465
POST-TMI-2 ADDITIONS	610,611	0	0	0	0	610,611
SITE ACCESS FEES, (3.5 YRS)						717,500
SUBTOTAL BWR COSTS	21,750,978	19,590,000	58,850,700	2,951,196	63,250,478	167,110,852
TAXES AND SURCHARGES						0
TOTAL BWR COSTS						167,110,852

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs

Table B.21 Burial Costs at the Nevada Site
Reference PWR (1991 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	29,613	45,600	61,993	136,800	122,018	396,025
VESSEL HEAD & BOTTOM	0	22,000	0	0	128,440	150,440
UPPER CORE SUPPORT ASSM	0	4,800	0	2,750	12,844	20,394
UPPER SUPPORT COLUMN	0	4,800	0	2,750	12,844	20,394
UPPER CORE BARREL	0	2,400	3,268	8,700	6,422	20,790
UPPER CORE GRID PLATE	0	6,000	12,008	21,750	16,055	55,813
GUIDE TUBES	0	7,200	0	1,696	19,266	28,162
LOWER CORE BARREL[a]	0	38,400	166,291	139,200	102,752	446,643
THERMAL SHIELDS[a]	0	7,200	33,204	26,100	19,266	85,770
CORE SHROUD[a]	0	4,800	706,575	17,400	12,844	741,619
LOWER GRID PLATE[a]	0	6,000	114,100	21,750	16,055	157,905
LOWER SUPPORT COLUMN	0	1,200	3,314	4,350	3,211	12,075
LOWER CORE FORGING	0	13,200	17,318	47,850	35,321	113,689
MISC INTERNALS	0	9,600	12,629	34,800	25,688	82,717
BIO SHIELD CONCRETE	0	0	0	0	801,466	801,466
REACTOR CAVITY LINER	0	0	0	0	16,440	16,440
REACTOR COOLANT PUMPS	184,800	0	0	0	134,862	319,662
PRESSURIZER	13,212	0	0	0	115,596	128,808
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	12,844	12,844
PRESSURIZER RELIEF TANK	1,148	0	0	0	38,532	39,680
SAFETY INJECTION ACCUM TANKS	123,200	0	0	0	128,440	251,640
STEAM GENERATORS	627,200	0	0	0	685,934	1,313,134
REACTOR COOLANT PIPING	107,800	0	0	0	105,963	213,763
REMAINING CONTAM. MATLS	0	0	0	0	1,689,243	1,689,243
CONTAMINATED MATRL OTHR BLD	0	0	0	0	15,319,745	15,319,745
FILTER CARTRIDGES	0	7,200	10,204	8,467	10,115	35,985
SPENT RESINS	0	24,000	39,080	57,400	64,220	184,700
COMBUSTIBLE WASTES	0	33,000	0	0	325,114	358,114
EVAPORATOR BOTTOMS	0	112,800	0	68,765	301,834	483,399
POST-TMI-2 ADDITIONS	0	0	0	0	499,728	499,728
SUBTOTAL PWR COSTS	1,086,973	350,200	1,179,984	600,529	20,783,101	24,000,788
TOTAL PWR COSTS						24,000,788

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.21 Burial Costs at the Nevada Site
Reference BWR (1991 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	33,600	23,397	207,760	11,335	276,092
FUEL SUPPORT & PIECES	0	16,800	0	50,400	5,683	72,883
CONTROL RODS/INCORES	0	9,600	50,072	152,640	17,018	229,330
CONTROL RODS GUIDES	0	14,400	0	16,729	4,528	35,657
JET PUMPS	0	48,000	34,680	466,400	15,894	564,974
TOP FUEL GUIDES	0	86,400	116,467	839,520	27,229	1,069,616
CORE SUPPORT PLATE	0	37,200	0	43,217	12,491	92,908
CORE SHROUD[a]	0	168,000	1,474,760	1,632,400	53,303	3,328,463
REACTOR VESSEL WALL	17,402	26,400	0	30,670	9,087	83,559
SAC SHIELD	215,600	0	0	0	102,046	317,646
REACT. WATER REC	91,800	0	0	0	99,798	191,598
SAC SHIELD	585,200	0	0	0	351,540	936,740
OTHER PRIMARY CONTAINMENT	0	0	0	0	4,009,576	4,009,576
CONTAINM. ATMOSPHERIC	928	0	0	0	54,426	55,354
HIGH PRESSURE CORE SPRAY	30,800	0	0	0	19,266	50,066
LOW PRESSURE CORE SPRAY	1,414	0	0	0	11,335	12,749
REACTOR BLDG CLOSED COOLING	2,742	0	0	0	36,284	39,026
REACTOR CORE ISO COOLING	714	0	0	0	14,738	15,452
RESIDUAL HEAT REMOVAL	107,800	0	0	0	70,321	178,121
POOL LINES & RACKS	231,000	0	0	0	432,040	663,040
CONTAMINATED CONCRETE	9,824	0	0	0	492,150	501,974
OTHER REACTOR BUILDING	0	0	0	0	1,609,032	1,609,032
TURBINE	893,200	0	0	0	1,594,326	2,487,526
NUCLEAR STEAM CONDENSATE	18,668	0	0	0	411,618	430,286
LOW PRESSURE FEEDWATER HEATERS	646,800	0	0	0	835,695	1,482,495
MAIN STEAM	4,742	0	0	0	80,532	85,274
MOISTURE SEPARATOR REHEATERS	400,400	0	0	0	810,778	1,211,178
REACTOR FEEDWATER PUMPS	9,140	0	0	0	219,986	229,126
HIGH PRESSURE FEEDWATER HEATERS	123,200	0	0	0	137,206	260,406
OTHER TG BLDG	0	0	0	0	5,507,507	5,507,507
RAD WASTE BLDG	0	0	0	0	2,727,134	2,727,134
REACTOR BLDG	0	35,200	0	0	346,357	381,557
TG BLDG	0	23,100	0	0	233,815	256,915
RAD WASTE & CONTROL	0	20,900	0	0	201,798	222,698
CONCENTRATOR BOTTOMS	0	270,000	0	162,740	722,475	1,155,215
OTHER	0	73,200	0	2,375	195,871	271,446
POST-TMI-2 ADDITIONS	0	0	0	0	40,844	40,844
SUBTOTAL BWR COSTS	3,391,375	862,800	1,699,376	3,604,862	21,525,062	31,083,464
TOTAL BWR COSTS						31,083,464

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.22 Burial Costs at the Nevada Site
Reference PWR (1988 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	29,613	45,600	61,993	136,800	107,768	381,775
VESSEL HEAD & BOTTOM	0	22,000	0	0	113,440	135,440
UPPER CORE SUPPORT ASSM	0	4,800	0	2,750	11,344	18,894
UPPER SUPPORT COLUMN	0	4,800	0	2,750	11,344	18,894
UPPER CORE BARREL	0	2,400	3,268	8,700	5,672	20,040
UPPER CORE GRID PLATE	0	6,000	12,008	21,750	14,180	53,938
GUIDE TUBES	0	7,200	0	1,696	17,016	25,912
LOWER CORE BARREL[a]	0	38,400	166,291	139,200	90,752	434,643
THERMAL SHIELDS[a]	0	7,200	33,204	26,100	17,016	83,520
CORE SHROUD[a]	0	4,800	706,575	17,400	11,344	740,119
LOWER GRID PLATE[a]	0	6,000	114,100	21,750	14,180	156,030
LOWER SUPPORT COLUMN	0	1,200	3,314	4,350	2,836	11,700
LOWER CORE FORGING	0	13,200	17,318	47,850	31,196	109,564
MISC INTERNALS	0	9,600	12,629	34,800	22,688	79,717
BIO SHIELD CONCRETE	0	0	0	0	707,866	707,866
REACTOR CAVITY LINER	0	0	0	0	14,520	14,520
REACTOR COOLANT PUMPS	163,200	0	0	0	119,112	282,312
PRESSURIZER	13,212	0	0	0	102,096	115,308
R.Hx,Ehx,SUMP PUMP,CAVITY PUMP	0	0	0	0	11,344	11,344
PRESSURIZER RELIEF TANK	1,148	0	0	0	34,032	35,180
SAFETY INJECTION ACCUM TANKS	108,800	0	0	0	113,440	222,240
STEAM GENERATORS	569,600	0	0	0	605,826	1,175,426
REACTOR COOLANT PIPING	95,200	0	0	0	93,588	188,788
REMAINING CONTAM. MATLS	0	0	0	0	1,491,963	1,491,963
CONTAMINATED MATRL OTHR BLD	0	0	0	0	13,530,613	13,530,613
FILTER CARTRIDGES	0	7,200	10,204	8,467	8,933	34,804
SPENT RESINS	0	24,000	39,080	57,400	56,720	177,200
COMBUSTIBLE WASTES	0	33,000	0	0	287,145	320,145
EVAPORATOR BOTTOMS	0	112,800	0	68,765	266,584	448,149
POST-TMI-2 ADDITIONS	0	0	0	0	441,367	441,367
SUBTOTAL PWR COSTS	980,773	350,200	1,179,984	600,529	18,355,925	21,467,411
TOTAL PWR COSTS						21,467,411

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.22 Burial Costs at the Nevada Site
Reference BWR (1988 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	33,600	23,397	207,760	10,011	274,768
FUEL SUPPORT & PIECES	0	16,800	0	50,400	5,020	72,220
CONTROL RODS/INCORES	0	9,600	50,072	152,640	15,031	227,343
CONTROL RODS GUIDES	0	14,400	0	16,729	3,999	35,128
JET PUMPS	0	48,000	34,680	466,400	14,038	563,118
TOP FUEL GUIDES	0	86,400	116,467	839,520	24,049	1,066,436
CORE SUPPORT PLATE	0	37,200	0	43,217	11,032	91,449
CORE SHROUD[a]	0	168,000	1,474,760	1,632,400	47,078	3,322,238
REACTOR VESSEL WALL	17,402	26,400	0	30,670	8,026	82,498
SAC SHIELD	190,400	0	0	0	90,128	280,528
REACT. WATER REC	82,800	0	0	0	88,143	170,943
SAC SHIELD	516,800	0	0	0	310,485	827,285
OTHER PRIMARY CONTAINMENT	0	0	0	0	3,541,313	3,541,313
CONTAINM. ATMOSPHERIC	928	0	0	0	48,070	48,998
HIGH PRESSURE CORE SPRAY	27,200	0	0	0	17,016	44,216
LOW PRESSURE CORE SPRAY	1,414	0	0	0	10,011	11,425
REACTOR BLDG CLOSED COOLING	2,742	0	0	0	32,047	34,789
REACTOR CORE ISO COOLING	714	0	0	0	13,017	13,731
RESIDUAL HEAT REMOVAL	95,200	0	0	0	62,108	157,308
POOL LINES & RACKS	204,000	0	0	0	381,584	585,584
CONTAMINATED CONCRETE	9,824	0	0	0	434,674	444,498
OTHER REACTOR BUILDING	0	0	0	0	1,421,120	1,421,120
TURBINE	788,800	0	0	0	1,408,131	2,196,931
NUCLEAR STEAM CONDENSATE	18,668	0	0	0	363,547	382,215
LOW PRESSURE FEEDWATER HEATERS	571,200	0	0	0	738,097	1,309,297
MAIN STEAM	4,742	0	0	0	71,127	75,869
MOISTURE SEPARATOR REHEATERS	353,600	0	0	0	716,090	1,069,690
REACTOR FEEDWATER PUMPS	9,140	0	0	0	194,294	203,434
HIGH PRESSURE FEEDWATER HEATERS	108,808	0	0	0	121,182	229,982
OTHER TG BLDG	0	0	0	0	4,864,307	4,864,307
RAD WASTE BLDG	0	0	0	0	2,408,643	2,408,643
REACTOR BLDG	0	35,200	0	0	306,194	341,394
TG BLDG	0	23,100	0	0	206,702	229,802
RAD WASTE & CONTROL	0	20,900	0	0	178,398	199,298
CONCENTRATOR BOTTOMS	0	270,000	0	162,740	638,100	1,070,840
OTHER	0	73,200	0	2,375	172,996	248,571
POST-TMI-2 ADDITIONS	0	0	0	0	36,074	36,074
SUBTOTAL BWR COSTS	3,004,375	862,800	1,699,376	3,604,852	19,011,883	28,183,285
TOTAL BWR COSTS						28,183,285

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.23 Burial Costs at the Nevada Site
Reference PWR (1986 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
VESSEL WALL	29,613	30,172	61,613	127,370	78,318	327,087
VESSEL HEAD & BOTTOM	0	31,760	0	0	82,440	114,200
UPPER CORE SUPPORT ASSM	0	3,176	0	5,441	8,244	16,861
UPPER SUPPORT COLUMN	0	3,176	0	5,441	8,244	16,861
UPPER CORE BARREL	0	1,588	3,248	6,704	4,122	15,662
UPPER CORE GRID PLATE	0	3,970	11,958	16,759	10,305	42,992
GUIDE TUBES	0	4,764	0	5,646	12,366	22,776
LOWER CORE BARREL[a]	0	25,408	165,971	107,259	65,952	364,590
THERMAL SHIELDS[a]	0	4,764	33,144	20,111	12,366	70,385
CORE SHROUD[a]	0	3,176	705,965	13,407	8,244	730,793
LOWER GRID PLATE[a]	0	3,970	114,000	16,759	10,305	145,034
LOWER SUPPORT COLUMN	0	794	3,304	3,352	2,061	9,511
LOWER CORE FORGING	0	8,734	17,208	36,870	22,671	85,484
MISC INTERNALS	0	6,352	12,549	26,815	16,488	62,204
BIO SHIELD CONCRETE	0	0	0	0	514,426	514,426
REACTOR CAVITY LINER	0	0	0	0	10,552	10,552
REACTOR COOLANT PUMPS	65,768	0	0	0	86,562	152,330
PRESSURIZER	13,212	0	0	0	74,196	87,408
R.Hx,EHx,SUMP PUMP,CAVITY PUMP	0	0	0	0	8,244	8,244
PRESSURIZER RELIEF TANK	1,148	0	0	0	24,732	25,880
SAFETY INJECTION ACCUM TANKS	24,312	0	0	0	82,440	106,752
STEAM GENERATORS	250,048	0	0	0	440,271	690,319
REACTOR COOLANT PIPING	16,698	0	0	0	68,013	84,711
REMAINING CONTAM. MATLS	0	0	0	0	1,084,251	1,084,251
CONTAMINATED MATRL OTHR BLD	0	0	0	0	9,833,072	9,833,072
FILTER CARTRIDGES	0	4,764	10,144	28,079	6,492	49,478
SPENT RESINS	0	15,880	38,880	59,032	41,220	155,012
COMBUSTIBLE WASTES	0	47,640	0	0	208,676	256,316
EVAPORATOR BOTTOMS	0	74,636	0	68,486	193,734	336,856
SUBTOTAL PWR COSTS	400,800	274,724	1,177,984	547,530	13,019,007	15,420,045
TOTAL PWR COSTS						15,420,045

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

Table B.23 Burial Costs at the Nevada Site
Reference BWR (1986 dollars)

COMPONENT	CRANE SURCHARGE	CASK HANDLING	CURIE SURCHARGE	LINER DOSE RATE	BURIAL CHARGE	DISPOSAL COST
STEAM SEPARATOR	0	22,232	23,257	291,200	7,275	343,964
FUEL SUPPORT & PIECES	0	11,116	0	46,926	3,648	61,690
CONTROL RODS/INCORES	0	6,352	49,992	342,400	10,923	409,667
CONTROL RODS GUIDES	0	9,528	0	20,829	2,906	33,263
JET PUMPS	0	31,760	34,480	680,000	10,202	756,442
TOP FUEL GUIDES	0	57,168	115,747	1,224,000	17,477	1,414,392
CORE SUPPORT PLATE	0	24,614	0	53,809	8,017	86,440
CORE SHROUD[a]	0	111,160	1,473,360	1,792,000	34,213	3,410,733
REACTOR VESSEL WALL	17,402	17,468	0	38,187	5,833	78,889
SAC SHIELD	48,836	0	0	0	65,499	114,335
REACT. WATER REC	35,970	0	0	0	64,056	100,026
SAC SHIELD	138,730	0	0	0	225,638	364,369
OTHER PRIMARY CONTAINMENT	0	0	0	0	2,573,571	2,573,571
CONTAINM. ATMOSPHERIC	928	0	0	0	34,934	35,862
HIGH PRESSURE CORE SPRAY	4,528	0	0	0	12,366	16,894
LOW PRESSURE CORE SPRAY	1,414	0	0	0	7,275	8,689
REACTOR BLDG CLOSED COOLING	2,742	0	0	0	23,289	26,031
REACTOR CORE ISO COOLING	714	0	0	0	9,460	10,174
RESIDUAL HEAT REMOVAL	12,898	0	0	0	45,136	58,034
POOL LINES & RACKS	51,810	0	0	0	277,308	329,118
CONTAMINATED CONCRETE	9,824	0	0	0	315,889	325,713
OTHER REACTOR BUILDING	0	0	0	0	1,032,767	1,032,767
TURBINE	128,215	0	0	0	1,023,328	1,151,543
NUCLEAR STEAM CONDENSATE	18,668	0	0	0	264,200	282,868
LOW PRESSURE FEEDWATER HEATERS	140,687	0	0	0	536,396	677,083
MAIN STEAM	4,742	0	0	0	51,690	56,432
MOISTURE SEPARATOR REHEATERS	86,164	0	0	0	520,403	606,567
REACTOR FEEDWATER PUMPS	9,140	0	0	0	141,199	150,339
HIGH PRESSURE FEEDWATER HEATERS	27,712	0	0	0	88,067	115,779
OTHER TG BLDG	0	0	0	0	3,535,027	3,535,027
RAD WASTE BLDG	0	0	0	0	1,750,428	1,750,428
REACTOR BLDG	0	50,816	0	0	226,481	277,297
TG BLDG	0	33,348	0	0	152,890	186,238
RAD WASTE & CONTROL	0	30,172	0	0	131,954	162,126
CONCENTRATOR BOTTOMS	0	178,650	0	162,320	463,725	804,695
OTHER	0	48,434	0	5,163	125,721	179,318
SUBTOTAL BWR COSTS	741,126	632,818	1,696,836	4,656,832	13,799,189	21,526,801
TOTAL BWR COSTS						21,526,801

(a) GTCC Material: Assumes a low density, distributed packaging scheme and final disposal as LLW. High density packaging and geologic repository disposal could reduce disposal costs.

References

1. Konzek, G. J., and R. I. Smith, "Technology, Safety and Costs of Decommissioning a Reference Pressurized Water Reactor Power Station - Technical Support for Decommissioning Matters Related to Preparation of the Final Decommissioning Rule," (Report prepared by Pacific Northwest Laboratory, Richland, Washington), NUREG/CR-0130, Addendum 4, U.S. Nuclear Regulatory Commission, July 1988.

2. Konzek, G. J., and R. I. Smith, "Technology, Safety and Costs of Decommissioning a Reference Boiling Water Reactor Power Station - Technical Support for Decommissioning Matters Related to Preparation of the Final Decommissioning Rule," (Report prepared by Pacific Northwest Laboratory, Richland, Washington), NUREG/CR-0672, Addendum 3, U.S. Nuclear Regulatory Commission, July 1988.

Appendix C

Bureau of Labor Statistics on the World Wide Web

Appendix C

Bureau of Labor Statistics on the World Wide Web

The U.S. Department of Labor, Bureau of Labor Statistics, maintains and periodically updates many parameters relating to the economy of the United States. For use in the adjustment formula in Section 3, the labor adjustment factor for December 1997 was obtained from the "Monthly Labor Review" publication and the energy adjustment factors for the last quarter of calendar year 1997 were obtained from the "Producer Price Indexes" publication.

These dates were chosen to agree with the effective dates of the waste burial rate schedules. As an alternative to using these values, more current adjustment factors can be obtained by accessing the Bureau of Labor Statistics databases on the World Wide Web. Instructions on how to access and obtain the specific adjustment factors used in this report follow below.

Appendix D

Historical Values of Burial Cost Adjustment Factors

Appendix D

Historical Values of Burial Cost Adjustment Factors

B_x is evaluated by recalculating the burial cost of low-level wastes (LLW) from decommissioning the reference PWR and the reference BWR, based on the price schedules provided for the available burial sites in the year of interest, with consideration given to surcharges which were imposed as a result of the Low-Level Radioactive Waste Policy Amendments Act of 1985 (LLRWPAA). The results of these recalculations, excluding any surcharges or penalties imposed as a result of the LLRWPAA, are presented in Table 2.1, by site and by year. Because the LLRWPAA surcharges and penalties ceased effective January 1, 1993, the values of B_x calculated for the years 1993 and later reflect just the basic charges plus any fees or surcharges imposed by the states and compacts within which the disposal sites are located. As noted in the footnotes to Table D.1, the Nevada LLW disposal site ceased operation on December 31, 1992, and is therefore not included in the calculations for the years 1993 and later.

Table D.1 Historical Values of B_x as a Function of LLW Burial Site, Waste Vendor, and Year

Year	Values of B_x (PWR/BWR)[a] (No Surcharges, No Penalties)		
	Washington	Nevada	South Carolina
1998	3.165/14.403[b]	--- / ---[c]	15.886/13.948[d]
	4.538/15.203[b, e]	--- / ---[c]	7.173/6.968[d, e]
1997	3.112/6.264[b]	--- / ---[c]	15.852/13.837[d]
1996	2.845/3.294[b]	--- / ---[c]	12.771/10.379[d]
1995	2.015/1.878[b]	--- / ---[c]	12.824/10.420[d]
1994	2.521/2.373[b]	--- / ---[c]	11.873/9.794[f]
	--- / ---	--- / ---	6.619/5.714[g]
1993	2.002/1.943[b]	--- / ---[c]	11.408/9.434[f]
	--- / ---	--- / ---	6.155/5.354[g]
1991	1.326/1.184	1.334/1.296	2.494/2.361
1988	1.223/1.093	1.193/1.175	2.007/1.831
1986	1.000/1.000	0.857/0.898	1.678/1.561
	Values of B_x (PWR/BWR) (With Surcharges, No Penalties)[h]		
1998[i]	--- / ---	--- / ---	--- / ---
1997[i]	--- / ---	--- / ---	--- / ---
1996[i]	--- / ---	--- / ---	--- / ---
1995[i]	--- / ---	--- / ---	--- / ---
1994[i]	--- / ---	--- / ---	--- / ---
1993[i]	--- / ---	--- / ---	--- / ---
1991	2.765/2.302	2.773/2.414	3.933/3.478
1988	1.942/1.652	1.913/1.734	2.727/2.390
1986	1.360/1.279	1.217/1.177	2.038/1.840
	Values of B_x (PWR/BWR) (With Surcharges Including Penalties)[j]		
1998[j]	--- / ---	--- / ---	--- / ---
1997[j]	--- / ---	--- / ---	--- / ---
1996[j]	--- / ---	--- / ---	--- / ---
1995[j]	--- / ---	--- / ---	--- / ---
1994[j]	--- / ---	--- / ---	--- / ---
1993[j]	--- / ---	--- / ---	--- / ---
1991	4.204/3.420	4.213/3.532	5.372/4.596
1988	2.662/2.211	2.633/2.293	3.446/2.949
1986	1.720/1.559	1.577/1.457	2.397/2.120

(a) The values presented in this table are developed in Appendix B, with all values normalized to the 1986 Washington (PWR/BWR) values with no LLRWPAA surcharges or penalties by dividing the calculated burial costs for each site and year by the Washington site burial costs calculated for the year 1986.
(b) Effective 1/1/93, the Washington site is not accepting waste from outside the Northwest and Rocky Mountain Compacts.
(c) Nevada site closed 12/31/92.
(d) Effective 7/1/95, access is allowed for all states except North Carolina.
(e) Effective with the 1998 update of NUREG-1307, turning over the majority of LLW to waste vendors for disposition is considered a possibility.
(f) Includes $220/ft³ out-of-region access fee.
(g) Includes $74/ft³ in-region access fee.
(h) Waste originating from a state that has met LLRWPAA milestones, and is outside the compact where the LLW disposal facility is located.
(i) No LLRWPAA surcharges or penalties after 12/31/92.
(j) Waste originating from a state that has *not* met LLRWPAA milestones, and is outside the compact where the LLW disposal facility is located.

NRC FORM 335 (12-89) NRCM 1102, 3201, 3202

U.S. NUCLEAR REGULATORY COMMISSION

BIBLIOGRAPHIC DATA SHEET

(See instructions on the reverse)

1. REPORT NUMBER (Assigned by NRC, Add Vol., Supp., Rev., and Addendum Numbers, if any.)

NUREG-1307
Revision 8

2. TITLE AND SUBTITLE

Report on Waste Disposal Charges

Changes in Decommissioning Waste Disposal Costs at Low-Level Waste Burial Facilities

3. DATE REPORT PUBLISHED

MONTH	YEAR
December	1998

4. FIN OR GRANT NUMBER

5. AUTHOR(S)

6. TYPE OF REPORT

Technical

7. PERIOD COVERED (Inclusive Dates)

8. PERFORMING ORGANIZATION – NAME AND ADDRESS (If NRC, provide Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address; if contractor, provide name and mailing address.)

Division of Regulatory Applications
Office of Nuclear Regulatory Research
U.S. Nuclear Regulatory Commission
Washington, DC 20555-0001

9. SPONSORING ORGANIZATION – NAME AND ADDRESS (If NRC, type "Same as above"; if contractor, provide NRC Division, Office or Region, U.S. Nuclear Regulatory Commission, and mailing address.)

Same as 8. above

10. SUPPLEMENTARY NOTES

Supersedes NUREG-1307, Revision 7, dated November 1997.

11. ABSTRACT (200 words or less)

A requirement placed upon nuclear power reactor licensees by the U.S. Nuclear Regulatory Commission (NRC) is that licensees must annually adjust the estimate of the cost of decommissioning their plants, in dollars of the current year, as part of the process to provide reasonable assurance that adequate funds for decommissioning will be available when needed. This report, which is revised periodically, explains the formula that is acceptable to the NRC for determining the minimum decommissioning fund requirements for nuclear power plants. The sources of information used in the formula are identified, and the values developed for the estimation of radioactive waste burial/disposition costs, by site and by year, are given. Licensees may use the formula, coefficients, and burial/disposition adjustment factors from this report in their cost analyses, or they may use adjustment factors at least equal to the approach presented herein.

12. KEY WORDS/DESCRIPTORS (List words or phrases that will assist researchers in locating the report.)

waste burial
decommissioning
cost estimates

13. AVAILABILITY STATEMENT

Unlimited

14. SECURITY CLASSIFICATION

(This Page)

Unclassified

(This Report)

Unclassified

15. NUMBER OF PAGES

16. PRICE