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March 29, 2010

PG&E Letter HBL-10-009

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Docket No. 50-133, OP-DPR-7
Humboldt Bay Power Plant Unit 3
Decommissioning Funding Report for Humboldt Bay Power Plant Unit 3

Dear Commissioners and Staff:

PG&E is submitting the decommissioning funding report for Humboldt Bay Power Plant (HBPP) Unit 3, pursuant to the requirements of 10 CFR 50.75(f). The decommissioning funding assurance for the Independent Spent Fuel Storage Installation (ISFSI) is addressed in this report in accordance with 10 CFR 72.30(c)(5).

Humboldt Bay Unit 3

At the end of calendar year 2009, the market value of the HBPP Unit 3 (220 MWt) decommissioning trust funds was $327.0 million. PG&E estimates an additional $30.132 million (future nominal dollars) will need to be collected over three years beginning in 2010 based on a site-specific decommissioning cost estimate prepared by TLG Services, Inc. and submitted in the Nuclear Decommissioning Cost Triennial Proceeding (NDCTP) Application 09-04-007 to the California Public Utilities Commission (CPUC). The CPUC Application is based on an ISFSI that would be in operation until 2020 when all fuel would be removed from HBPP by the Department of Energy (DOE). A Decision from the CPUC is imminent.

The market value of the HBPP trust is lower than the minimum NRC decommissioning estimate of $596.6 million (2010 dollars) that was calculated pursuant to the requirements specified in 10 CFR 50.75(c), which is based on a minimum 1200 MWt plant.

PG&E is confident the HBPP trust, with the noted additional contributions, will be sufficient to ensure successful decommissioning and maintaining the spent fuel in an ISFSI at HBPP until 2020, based on a site-specific decommissioning cost estimate prepared by TLG Services, Inc. and the CPUC Application 09-04-007.

Supporting Cost Estimates

Based on a site-specific cost estimate prepared by TLG Services, Inc. PG&E has estimated that the decommissioning costs are approximately $428.7 million (including $69.7 million disbursed from the Trust(s) through December 2009 and $359.0 million

NMSS01
FSME

future radiological removal costs) for HBPP Unit 3 in 2010 dollars. These costs do not include site restoration of the facilities ($2.0 million), nor spent fuel management until 2020 ($106.4 million).

To assure that sufficient funds will be available for decommissioning, PG&E has established external sinking trust fund accounts for HBPP Unit 3.

Supporting Enclosures

Enclosure 1 provides decommissioning funding status information in a format suggested by Nuclear Energy Institute (NEI) and the NRC.

Enclosure 2 provides information on the escalation of the required decommissioning funding amounts from 1986 dollars to 2010 dollars. As required by 10 CFR 50.75(c)(2), and using NUREG-1577, "Standard Review Plan on Power Reactor Licensee Financial Qualifications and Decommissioning Funding Assurance," Revision 1, and NUREG-1307, "Report on Waste Burial Charges," Revision 13, the information includes escalation factors for energy, labor, and waste burial costs.

Enclosure 3 is Appendix D from the TLG Services, Inc. decommissioning cost estimate report prepared in March 2009 for PG&E for HBPP Unit 3 escalated to 2010 dollars. The report provides cost estimates for decommissioning of both the nuclear and non-nuclear facilities, including the ISFSI.

Enclosure 4 is a cash flow of the total decommissioning of HBPP that identifies the monies for NRC scope (removal of radiological contamination), site restoration (including the non-radiological work) and the spent fuel management.

Enclosure 5 contains the TLG Services, Inc. decommissioning cost estimate report prepared in March 2009 for PG&E for the HBPP Unit 3. The report provides cost estimates for the decommissioning of the nuclear, non-nuclear facilities, and spent fuel management, including operation of the ISFSI in 2008 dollars.

There are no new regulatory commitments in this letter.

If you have questions regarding this submittal, please contact Bob Kapus at 707-444-0810.

Sincerely,

James R. Becker
Site Vice President

Enclosures
cc/enc: Elmo E. Collins, Jr.
John B. Hickman
INPO
PG Fossil Gen HBPP Humboldt Distribution

NRC Decommissioning Funding Status Report

Humboldt Bay Power Plant – Unit 3 (220 MWt)

(2 Pages)

NRC Decommissioning Funding Status Report
Humboldt Bay Power Plant - Unit 3 (220 MWt)

As provided in 10 CFR 50.75(f)(1), each power reactor licensee is required to report to the NRC on a calendar year basis, beginning March 31, 1999, and annually thereafter, on the status of its decommissioning funding for each reactor that it owns and has already closed.

$ in Millions

1. The minimum decommissioning fund estimate, pursuant to 10 CFR 50.75 (b) and (c).[1]

   January 2010 dollars — $ 596.6

   (HBPP is a shutdown unit with a Site Specific Cost Study; therefore, the minimum decommissioning fund estimate is based on the Site Specific Cost Study shown in item 8 of this enclosure.)

2. The amount accumulated at the end of the calendar year preceding the date of the report for items included in 10 CFR 50.75 (b) and (c). (Alternatively, the total amount accumulated at the end of the calendar year preceding the date of the report can be reported here if the cover letter transmitting the report provides the total estimate and indicates what portion of that estimate is for items not included in 10 CFR 50.75 (b) and (c)).

   Market Value (December 2009 dollars) — $ 327.0

3. A schedule of the annual amounts remaining to be collected; for items in 10 CFR 50.75 (b) and (c). (Alternatively, the annual amounts remaining to be collected can include items beyond those required in 10 CFR 50.75 (b) and (c) if the cover letter transmitting the report provides a total cost estimate and indicates what portion of that estimate is for items that are not included in 10 CFR 50.75 (b) and (c). All values below are from 2009 NDCTP filing, Final Decision has not been received from the CPUC. (See item 6 of this enclosure describing the collection of additional funds.)

Amount remaining	$ 30.132
Number of years to collect beginning in 2010	3 years
Annual amount to be collected	$ 10.044

[1] * The NRC formulas in section 10CFR50.75(c) include only those decommissioning costs incurred by licensees to remove a facility or site safely from service and reduce residual radioactivity to levels that permit: (1) release of the property for unrestricted use and termination of the license; or (2) release of the property under restricted conditions and termination of the license. The cost of dismantling or demolishing non-radiological systems and structures is not included in the NRC decommissioning cost estimates. The costs of managing and storing spent fuel on site until transfers to DOE are not included in the cost formulas.

4. The assumptions used regarding escalation in decommissioning cost, rates of earnings on decommissioning funds (assumes trust will be gradually converted to a more conservative, all fixed income portfolio after 2010), and rates of other factors used in funding projections (all values below are from 2009 NDCTP filing, Final Decision has not been received from the CPUC):

Escalation in decommissioning costs	3.14 percent
Rate of Return on Qualified Trust 2010	4.62 percent
Rate of Return on Qualified Trust 2011	3.76 percent
Rate of Return on Qualified Trust 2012	3.34 percent
Rate of Return on Qualified Trust 2013	2.95 percent
Rate of Return on Qualified Trust (2014-2020)	2.95 percent
Rate of Return on Non-Qualified Trust 2010	2.95 percent
Rate of Return on Non-Qualified Trust 2011	2.95 percent
Rate of Return on Non-Qualified Trust 2012	2.95 percent
Rate of Return on Non-Qualified Trust 2013	2.95 percent
Rate of Return on Non-Qualified Trust (2014-2020)	2.95 percent

5. Any contracts upon which the licensee is relying pursuant to 10 CFR 50.75(e)(1)(v); None

6. Any modifications to a licensee's current method providing financial assurance occurring since the last submitted report. No

7. Any material changes to trust agreements. None

8. CPUC Submittal in 2010 Dollars in Millions:

Total Project (Decommission 2010)	$ 537.1
Scope Excluded from NRC calculations	$ 2.0
Scope of ISFSI from Licensing to Decommissioning in 2020	$ 106.4
Scope Decommissioned and disbursed from Trust(s)	$ 69.7
Total NRC Decommissioning Remaining Scope	$ 359.0

Calculation of Energy Escalation Factor

Reference NUREG-1307, Revision 13, Section 3.2

(16 Pages)

Nuclear Regulatory Commission
Estimate of Decommission Costs for BWR
In 2009

	HBPP BWR (millions)	
Jan 1986 Estimate	114.8	
Escalated to 1999	128.9	(Table 2.1 in NUREG 1307 Rev 12 has no value for 1999 Burial)
Escalated to 2000	400.2	($360.9 in 2000 Submittal)
Escalated to 2001	412.4	($425.3 in 2001 Submittal)
Escalated to 2002	418.1	($445.6 in 2002 Submittal)
Escalated to 2003	437.3	($430.1 in 2003 Submittal)
Escalated to 2004	454.5	($439.6 in 2004 Submittal)
Escalated to 2005	485.7	($453.2 in 2005 Submittal)
Escalated to 2006	519.2	($494.3 in 2006 Submittal)
Escalated to 2007	549.8	($548.6 in 2007 Submittal)
Escalated to 2008	565.6	($590.9 in 2008 Submittal)
Escalated to 2009	574.4	($573.8 in 2009 Submittal)
Escalated to 2010	596.6	

Jan 1986 based on 10 CFR 50.75 (c) Table of minimum amounts
BWR based on minimum 1200 MWt = ($104 + (.009xMWt)) million per unit
where BWR less than 1200 MWt use P=1200 MWt, HBPP 220 MWt

Calculating Overall Escalation Rate

BWR	Jan-86	Jan-99	Jan-00	Jan-01	Jan-02	Jan-03	Jan-04	Jan-05	Jan-06	Jan-07	Jan-08	Jan-09	Jan-10	Weight (1)
L (Labor)	1.0000	1.5624	1.6370	1.7183	1.7862	1.8630	1.9521	2.0200	2.0724	2.1465	2.2207	2.2639	2.2948	0.65
E (Energy)	1.0000	0.8257	1.0220	1.1841	0.9715	1.2003	1.2131	1.4810	1.8656	1.8226	2.3961	1.7963	2.1241	0.13
B (Burial)	1.0000	0.0000	10.4061	10.5540	10.7015	11.0993	11.5119	12.3889	13.3331	14.3491	14.4164	14.9931	15.5874	0.22

(1) from NUREG 1307 Revision 13, Report on Waste Burial Charges, Section 2 Summary, Page 3 ... where A, B, and C are the fractions of the total 1986 dollar costs that are attributable to labor (0.65), energy (0.13), and burial (0.22), respectively, and sum to 1.0.

(2) Jan-01, Jan-03, Jan-05, Jan-07, Jan-08, Jan-09, and Jan-10 B (Burial) value in this table see calculation notes in Development of B Component spreadsheet

BWR
Combined Escalation Rate for:

Jan-86	Jan-99	Jan-00	Jan-01	Jan-02	Jan-03	Jan-04	Jan-05	Jan-06	Jan-07	Jan-08	Jan-09	Jan-10
1.0000	1.1229	3.4862	3.5927	3.6417	3.8088	3.9592	4.2311	4.5229	4.7890	4.9265	5.0035	5.1970

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

	PPI for Fuels & Related Products (1982 = 100) (P) =Industrial Energy Power	PPI for Light Fuel Oils (1982=100) (F) = Light Fuel Oils	REBASED TO 1986 = 100 PPI for Fuels & Related Products (1986 = 100) (P) =Industrial Energy Power BWR wt = 0.54	PPI for Light Fuel Oils (1986=100) (F) = Light Fuel Oils BWR wt = 0.46	Energy Escalation Factor (E) for BWR (Humboldt)
Jan-86	114.2	82.0	1.0000	1.0000	1.0000
Feb-86	115.0	62.4	1.0070	0.7610	0.8938
Mar-86	114.4	51.3	1.0018	0.6256	0.8287
Apr-86	113.7	49.8	0.9956	0.6073	0.8170
May-86	114.1	47.0	0.9991	0.5732	0.8032
Jun-86	115.3	44.7	1.0096	0.5451	0.7960
Jul-86	116.2	36.4	1.0175	0.4439	0.7537
Aug-86	116.3	40.1	1.0184	0.4890	0.7749
Sep-86	116.3	46.3	1.0184	0.5646	0.8097
Oct-86	113.0	43.1	0.9895	0.5256	0.7761
Nov-86	112.7	43.5	0.9869	0.5305	0.7769
Dec-86	112.3	45.6	0.9834	0.5561	0.7868
Jan-87	110.3	51.4	0.9658	0.6268	0.8099
Feb-87	109.8	53.1	0.9615	0.6476	0.8171
Mar-87	110.2	49.7	0.9650	0.6061	0.7999
Apr-87	109.9	52.0	0.9623	0.6341	0.8114
May-87	111.8	53.3	0.9790	0.6500	0.8277
Jun-87	113.9	55.1	0.9974	0.6720	0.8477
Jul-87	116.2	56.3	1.0175	0.6866	0.8653
Aug-87	115.7	59.4	1.0131	0.7244	0.8803
Sep-87	115.5	56.8	1.0114	0.6927	0.8648
Oct-87	111.0	59.3	0.9720	0.7232	0.8575
Nov-87	109.2	61.2	0.9562	0.7463	0.8597
Dec-87	109.6	58.1	0.9597	0.7085	0.8442
Jan-88	108.8	54.8	0.9527	0.6683	0.8219
Feb-88	109.0	51.5	0.9545	0.6280	0.8043
Mar-88	109.0	49.7	0.9545	0.6061	0.7942
Apr-88	109.1	53.3	0.9553	0.6500	0.8149
May-88	108.9	54.3	0.9536	0.6622	0.8195
Jun-88	117.2	50.6	1.0263	0.6171	0.8380
Jul-88	118.2	46.9	1.0350	0.5720	0.8220
Aug-88	118.3	46.8	1.0359	0.5707	0.8219
Sep-88	118.5	45.9	1.0377	0.5598	0.8178
Oct-88	114.2	42.3	1.0000	0.5159	0.7773
Nov-88	109.2	47.2	0.9562	0.5756	0.7811
Dec-88	110.5	50.6	0.9676	0.6171	0.8064
Jan-89	112.0	54.9	0.9807	0.6695	0.8376
Feb-89	112.0	54.0	0.9807	0.6585	0.8325
Mar-89	112.3	57.3	0.9834	0.6988	0.8525
Apr-89	112.4	61.5	0.9842	0.7500	0.8765
May-89	113.6	57.5	0.9947	0.7012	0.8597
Jun-89	119.8	53.3	1.0490	0.6500	0.8655
Jul-89	122.2	52.7	1.0701	0.6427	0.8735
Aug-89	122.4	53.5	1.0718	0.6524	0.8789
Sep-89	122.5	59.3	1.0727	0.7232	0.9119
Oct-89	117.2	64.0	1.0263	0.7805	0.9132
Nov-89	113.5	64.4	0.9939	0.7854	0.8980
Dec-89	114.2	68.1	1.0000	0.8305	0.9220
Jan-90	114.9	85.3	1.0061	1.0402	1.0218

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

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Feb-90	115.0	59.4	1.0070	0.7244	0.8770
Mar-90	115.4	60.4	1.0105	0.7366	0.8845
Apr-90	115.1	61.0	1.0079	0.7439	0.8865
May-90	117.0	58.4	1.0245	0.7122	0.8808
Jun-90	123.9	53.0	1.0849	0.6463	0.8832
Jul-90	124.4	51.6	1.0893	0.6293	0.8777
Aug-90	124.6	72.3	1.0911	0.8817	0.9948
Sep-90	125.0	87.3	1.0946	1.0646	1.0808
Oct-90	121.2	104.8	1.0613	1.2780	1.1610
Nov-90	120.2	98.9	1.0525	1.2061	1.1232
Dec-90	118.9	89.3	1.0412	1.0890	1.0632
Jan-91	124.2	82.9	1.0876	1.0110	1.0523
Feb-91	124.3	74.3	1.0884	0.9061	1.0046
Mar-91	124.3	61.6	1.0884	0.7512	0.9333
Apr-91	124.7	60.0	1.0919	0.7317	0.9262
May-91	128.2	59.6	1.1226	0.7268	0.9405
Jun-91	132.6	57.6	1.1611	0.7024	0.9501
Jul-91	134.5	58.1	1.1778	0.7085	0.9619
Aug-91	133.8	62.1	1.1716	0.7573	0.9810
Sep-91	133.8	65.4	1.1716	0.7976	0.9996
Oct-91	128.3	67.6	1.1235	0.8244	0.9859
Nov-91	123.1	71.0	1.0779	0.8659	0.9804
Dec-91	125.1	62.2	1.0954	0.7585	0.9405
Jan-92	125.9	54.4	1.1025	0.6634	0.9005
Feb-92	125.3	57.3	1.0972	0.6988	0.9139
Mar-92	125.8	56.0	1.1016	0.6829	0.9090
Apr-92	124.8	59.0	1.0928	0.7195	0.9211
May-92	128.5	62.1	1.1252	0.7573	0.9560
Jun-92	134.8	65.4	1.1804	0.7976	1.0043
Jul-92	135.6	64.6	1.1874	0.7878	1.0036
Aug-92	135.1	63.3	1.1830	0.7720	0.9939
Sep-92	135.9	65.6	1.1900	0.8000	1.0106
Oct-92	131.2	68.2	1.1489	0.8317	1.0030
Nov-92	125.5	64.2	1.0989	0.7829	0.9536
Dec-92	126.7	59.4	1.1095	0.7244	0.9323
Jan-93	127.1	59.0	1.1130	0.7195	0.9320
Feb-93	126.4	60.4	1.1068	0.7366	0.9365
Mar-93	126.7	63.2	1.1095	0.7707	0.9536
Apr-93	126.8	62.4	1.1103	0.7610	0.9496
May-93	127.5	62.6	1.1165	0.7634	0.9541
Jun-93	136.9	60.8	1.1988	0.7415	0.9884
Jul-93	137.1	57.0	1.2005	0.6951	0.9680
Aug-93	137.2	54.4	1.2014	0.6634	0.9539
Sep-93	137.6	59.3	1.2049	0.7232	0.9833
Oct-93	131.9	65.4	1.1550	0.7976	0.9906
Nov-93	126.3	61.6	1.1060	0.7512	0.9428
Dec-93	126.0	51.4	1.1033	0.6268	0.8841
Jan-94	126.2	51.5	1.1051	0.6280	0.8856
Feb-94	125.9	57.5	1.1025	0.7012	0.9179

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

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Mar-94	125.8	56.2	1.1016	0.6854	0.9101
Apr-94	125.4	54.7	1.0981	0.6671	0.8998
May-94	126.0	54.7	1.1033	0.6671	0.9027
Jun-94	133.5	54.1	1.1690	0.6598	0.9347
Jul-94	134.5	56.3	1.1778	0.6866	0.9518
Aug-94	134.5	57.5	1.1778	0.7012	0.9586
Sep-94	134.9	57.7	1.1813	0.7037	0.9616
Oct-94	129.1	57.7	1.1305	0.7037	0.9341
Nov-94	127.0	58.8	1.1121	0.7171	0.9304
Dec-94	127.4	54.7	1.1156	0.6671	0.9093
Jan-95	127.6	54.7	1.1173	0.6671	0.9102
Feb-95	128.0	53.3	1.1208	0.6500	0.9043
Mar-95	128.3	54.3	1.1235	0.6622	0.9113
Apr-95	126.4	57.1	1.1068	0.6963	0.9180
May-95	130.2	59.1	1.1401	0.7207	0.9472
Jun-95	135.3	55.8	1.1848	0.6805	0.9528
Jul-95	136.6	53.5	1.1961	0.6524	0.9460
Aug-95	136.5	55.6	1.1953	0.6780	0.9573
Sep-95	133.7	58.2	1.1708	0.7098	0.9587
Oct-95	131.4	57.8	1.1506	0.7049	0.9456
Nov-95	127.6	59.5	1.1173	0.7256	0.9371
Dec-95	127.7	60.6	1.1182	0.7390	0.9438
Jan-96	127.9	62.6	1.1200	0.7634	0.9560
Feb-96	127.1	59.7	1.1130	0.7280	0.9359
Mar-96	127.8	63.5	1.1191	0.7744	0.9605
Apr-96	129.1	74.7	1.1305	0.9110	1.0295
May-96	135.0	72.0	1.1821	0.8780	1.0423
Jun-96	137.5	62.8	1.2040	0.7659	1.0025
Jul-96	136.0	64.3	1.1909	0.7841	1.0038
Aug-96	136.2	66.5	1.1926	0.8110	1.0171
Sep-96	136.2	73.4	1.1926	0.8951	1.0558
Oct-96	131.2	79.7	1.1489	0.9720	1.0675
Nov-96	127.1	76.5	1.1130	0.9329	1.0301
Dec-96	127.7	76.1	1.1182	0.9280	1.0307
Jan-97	128.3	73.7	1.1235	0.8988	1.0201
Feb-97	128.1	72.3	1.1217	0.8817	1.0113
Mar-97	128.2	65.2	1.1226	0.7951	0.9720
Apr-97	127.3	65.3	1.1147	0.7963	0.9683
May-97	129.7	64.2	1.1357	0.7829	0.9734
Jun-97	135.1	60.8	1.1830	0.7415	0.9799
Jul-97	135.9	57.8	1.1900	0.7049	0.9669
Aug-97	134.7	61.5	1.1795	0.7500	0.9819
Sep-97	136.0	60.4	1.1909	0.7366	0.9819
Oct-97	130.1	64.8	1.1392	0.7902	0.9787
Nov-97	127.9	65.8	1.1200	0.8024	0.9739
Dec-97	128.3	59.4	1.1235	0.7244	0.9399
Jan-98	127.4	54.1	1.1156	0.6598	0.9059
Feb-98	127.2	52.0	1.1138	0.6341	0.8932
Mar-98	126.7	48.3	1.1095	0.5890	0.8701

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

	PPI for Fuels & Related Products (1982 = 100) (P) =Industrial Energy Power	PPI for Light Fuel Oils (1982=100) (F) = Light Fuel Oils	REBASED TO 1986 = 100 PPI for Fuels & Related Products (1986 = 100) (P) =Industrial Energy Power BWR wt = 0.54	PPI for Light Fuel Oils (1986=100) (F) = Light Fuel Oils BWR wt = 0.46	Energy Escalation Factor (E) for BWR (Humboldt)
Apr-98	126.4	50.2	1.1068	0.6122	0.8793
May-98	129.2	50.0	1.1313	0.6098	0.8914
Jun-98	133.8	46.3	1.1716	0.5646	0.8924
Jul-98	134.8	45.0	1.1804	0.5488	0.8898
Aug-98	135.2	44.0	1.1839	0.5366	0.8861
Sep-98	135.2	48.3	1.1839	0.5890	0.9103
Oct-98	130.4	47.4	1.1419	0.5780	0.8825
Nov-98	127.6	46.2	1.1173	0.5634	0.8625
Dec-98	126.6	38.8	1.1086	0.4732	0.8163
Jan-99	126.1	40.9	1.1042	0.4988	0.8257
Feb-99	125.5	38.2	1.0989	0.4659	0.8077
Mar-99	125.5	42.8	1.0989	0.5220	0.8335
Apr-99	125.2	52.5	1.0963	0.6402	0.8865
May-99	127.4	52.6	1.1156	0.6415	0.8975
Jun-99	131.0	52.4	1.1471	0.6390	0.9134
Jul-99	133.9	58.7	1.1725	0.7159	0.9624
Aug-99	133.9	63	1.1725	0.7683	0.9866
Sep-99	134.1	67.6	1.1743	0.8244	1.0133
Oct-99	129.5	65.5	1.1340	0.7988	0.9798
Nov-99	127.5	71.3	1.1165	0.8695	1.0029
Dec-99	126.5	72.9	1.1077	0.8890	1.0071
Jan-00	126.8	75.3	1.1103	0.9183	1.0220
Feb-00	126.7	87.9	1.1095	1.0720	1.0922
Mar-00	126.7	89.7	1.1095	1.0939	1.1023
Apr-00	126.8	83.1	1.1103	1.0134	1.0658
May-00	128.6	82.9	1.1261	1.0110	1.0731
Jun-00	133.6	86.2	1.1699	1.0512	1.1153
Jul-00	136.2	88.7	1.1926	1.0817	1.1416
Aug-00	137.4	91.6	1.2032	1.1171	1.1636
Sep-00	137.8	110.1	1.2067	1.3427	1.2692
Oct-00	134.1	108.6	1.1743	1.3244	1.2433
Nov-00	130.9	108.4	1.1462	1.3220	1.2271
Dec-00	132.7	100.6	1.1620	1.2268	1.1918
Jan-01	136.4	96.1	1.1944	1.1720	1.1841
Feb-01	136.4	91.6	1.1944	1.1171	1.1588
Mar-01	136.5	83.1	1.1953	1.0134	1.1116
Apr-01	135.1	86.2	1.1830	1.0512	1.1224
May-01	136.2	94.2	1.1926	1.1488	1.1725
Jun-01	148.4	90.2	1.2995	1.1000	1.2077
Jul-01	149.5	81.3	1.3091	0.9915	1.1630
Aug-01	148.9	83.2	1.3039	1.0146	1.1708
Sep-01	148.2	93	1.2977	1.1341	1.2225
Oct-01	143.8	76.8	1.2592	0.9366	1.1108
Nov-01	137.3	70.5	1.2023	0.8598	1.0447
Dec-01	136.9	56.6	1.1988	0.6902	0.9649
Jan-02	136.3	58.3	1.1935	0.7110	0.9715
Feb-02	135.4	59.6	1.1856	0.7268	0.9746
Mar-02	135.7	69.1	1.1883	0.8427	1.0293
Apr-02	135.4	76.4	1.1856	0.9317	1.0688

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

	PPI for Fuels & Related Products (1982 = 100) (P) =Industrial Energy Power	PPI for Light Fuel Oils (1982=100) (F) = Light Fuel Oils	REBASED TO 1986 = 100 PPI for Fuels & Related Products (1986 = 100) (P) =Industrial Energy Power BWR wt = 0.54	PPI for Light Fuel Oils (1986=100) (F) = Light Fuel Oils BWR wt = 0.46	Energy Escalation Factor (E) for BWR (Humboldt)
May-02	137.9	75	1.2075	0.9146	1.0728
Jun-02	143.6	71.4	1.2574	0.8707	1.0796
Jul-02	144.9	75.5	1.2688	0.9207	1.1087
Aug-02	145.0	77.9	1.2697	0.9500	1.1226
Sep-02	145.8	89.5	1.2767	1.0915	1.1915
Oct-02	140.0	95.1	1.2259	1.1598	1.1955
Nov-02	139.5	82.8	1.2215	1.0098	1.1241
Dec-02	139.6	84.6	1.2224	1.0317	1.1347
Jan-03	140.3	95.7	1.2285	1.1671	1.2003
Feb-03	140.6	120.4	1.2312	1.4683	1.3402
Mar-03	143.3	128.9	1.2548	1.5720	1.4007
Apr-03	144.3	98.3	1.2636	1.1988	1.2338
May-03	145.1	85.5	1.2706	1.0427	1.1657
Jun-03	148.3	87.2	1.2986	1.0634	1.1904
Jul-03	151.6	90.1	1.3275	1.0988	1.2223
Aug-03	151.3	94.1	1.3249	1.1476	1.2433
Sep-03	152.0	88.2	1.3310	1.0756	1.2135
Oct-03	147.4	97.8	1.2907	1.1927	1.2456
Nov-03	142.7	93.0	1.2496	1.1341	1.1965
Dec-03	142.9	95.8	1.2513	1.1683	1.2131
Jan-04	143.1	106.8	1.2531	1.3024	1.2758
Feb-04	143.1	100.8	1.2531	1.2293	1.2421
Mar-04	143.1	107.8	1.2531	1.3146	1.2814
Apr-04	143.1	115.2	1.2531	1.4049	1.3229
May-04	144.2	116	1.2627	1.4146	1.3326
Jun-04	152.4	111.5	1.3345	1.3598	1.3461
Jul-04	152.2	119.3	1.3327	1.4549	1.3889
Aug-04	154.0	131.1	1.3485	1.5988	1.4636
Sep-04	154.0	136.8	1.3485	1.6683	1.4956
Oct-04	145.8	161.7	1.2767	1.9720	1.5965
Nov-04	144.9	153.6	1.2688	1.8732	1.5468
Dec-04	146.2	133.8	1.2802	1.6317	1.4419
Jan-05	148.9	138.5	1.3039	1.6890	1.4810
Feb-05	148.0	146	1.2960	1.7805	1.5188
Mar-05	148.1	169.4	1.2968	2.0659	1.6506
Apr-05	148.7	170.9	1.3021	2.0841	1.6618
May-05	151.1	165.3	1.3231	2.0159	1.6418
Jun-05	159.7	180.6	1.3984	2.2024	1.7683
Jul-05	162.1	186.2	1.4194	2.2707	1.8110
Aug-05	162.5	194.5	1.4229	2.3720	1.8595
Sep-05	162.8	209.9	1.4256	2.5598	1.9473
Oct-05	159.5	252.0	1.3967	3.0732	2.1679
Nov-05	161.1	199.1	1.4107	2.4280	1.8787
Dec-05	161.4	193.6	1.4133	2.3610	1.8492
Jan-06	167.0	191.8	1.4623	2.3390	1.8656
Feb-06	168.6	190.0	1.4764	2.3171	1.8631
Mar-06	167.4	199.2	1.4658	2.4293	1.9090
Apr-06	169.6	221.9	1.4851	2.7061	2.0468
May-06	170.8	231.4	1.4956	2.8220	2.1057

Calculation of Energy Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.2
Using Regional Indices SERIES ID: WPU0573 Light Fuel Oils (as of 03/06/09) and WPU0543 Industrial Electric Power (as of 03/06/09)

	PPI for Fuels & Related Products (1982 = 100) (P) =Industrial Energy Power	PPI for Light Fuel Oils (1982=100) (F) = Light Fuel Oils	REBASED TO 1986 = 100 PPI for Fuels & Related Products (1986 = 100) (P) =Industrial Energy Power BWR wt = 0.54	PPI for Light Fuel Oils (1986=100) (F) = Light Fuel Oils BWR wt = 0.46	Energy Escalation Factor (E) for BWR (Humboldt)
Jun-06	181.2	238.1	1.5867	2.9037	2.1925
Jul-06	181.9	231.6	1.5928	2.8244	2.1593
Aug-06	180.2	241.4	1.5779	2.9439	2.2063
Sep-06	181.0	203.1	1.5849	2.4768	1.9952
Oct-06	171.2	198.1	1.4991	2.4159	1.9208
Nov-06	167.2	198.2	1.4641	2.4171	1.9025
Dec-06	167.8	200.4	1.4694	2.4439	1.9176
Jan-07	171.9	180.0	1.5053	2.1951	1.8226
Feb-07	175.7	191.5	1.5385	2.3354	1.9051
Mar-07	172.1	215.1	1.5070	2.6232	2.0204
Apr-07	173.1	231.8	1.5158	2.8268	2.1189
May-07	179.2	225.3	1.5692	2.7476	2.1112
Jun-07	186.7	222.4	1.6349	2.7122	2.1304
Jul-07	187.0	237.8	1.6375	2.9000	2.2182
Aug-07	187.6	225.5	1.6427	2.7500	2.1521
Sep-07	188.4	238.9	1.6497	2.9134	2.2310
Oct-07	182.7	243.3	1.5998	2.9671	2.2288
Nov-07	180.3	288.2	1.5788	3.5146	2.4693
Dec-07	180.0	266.7	1.5762	3.2524	2.3473
Jan-08	181.9	273.8	1.5928	3.3390	2.3961
Feb-08	180.0	280.2	1.5762	3.4171	2.4230
Mar-08	183.1	339.6	1.6033	4.1415	2.7709
Apr-08	185.2	352.5	1.6217	4.2988	2.8532
May-08	189.5	384.9	1.6594	4.6939	3.0553
Jun-08	191.9	410.5	1.6804	5.0061	3.2102
Jul-08	196.1	423.8	1.7172	5.1683	3.3047
Aug-08	197.1	343.9	1.7259	4.1939	2.8612
Sep-08	195.9	335.1	1.7154	4.0866	2.8062
Oct-08	193.0	279.0	1.6900	3.4024	2.4777
Nov-08	187.7	218.2	1.6436	2.6610	2.1116
Dec-08	188.3	163.0	1.6489	1.9878	1.8048
Jan-09	190.3	159.8	1.6664	1.9488	1.7963
Feb-09	190.3	145.6	1.6664	1.7756	1.7166
Mar-09	187.6	136.8	1.6427	1.6683	1.6545
Apr-09	186.9	159.9	1.6366	1.9500	1.7808
May-09	190.5	158.6	1.6681	1.9341	1.7905
Jun-09	193.3	183.7	1.6926	2.2402	1.9445
Jul-09	196.2	165.2	1.7180	2.0146	1.8545
Aug-09	194.7	196.1	1.7049	2.3915	2.0207
Sep-09	194.9	186.6	1.7067	2.2756	1.9684
Oct-09	191.7	193.7	1.6786	2.3622	1.9931
Nov-09	186.4	208.2	1.6322	2.5390	2.0494
Dec-09	187.1	197.7	1.6384	2.4110	1.9938
Jan-10	188.1	220.1	1.6471	2.6841	2.1241

Oct 09 through Jan 10 are Preliminary Values from PPI Indices

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
Jan '86 adjusted to reflect NUREG 1307 Rev 13 Scaling Factor for West Labor (Pg 7)
Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Jan-86	89.8	1.00000
Feb-86		
Mar-86		
Apr-86	90.8	1.01114
May-86		
Jun-86		
Jul-86	91.2	1.01559
Aug-86		
Sep-86		
Oct-86	91.6	1.02004
Nov-86		
Dec-86		
Jan-87	92.5	1.03007
Feb-87		
Mar-87		
Apr-87	92.6	1.03118
May-87		
Jun-87		
Jul-87	93.7	1.04343
Aug-87		
Sep-87		
Oct-87	94.1	1.04788
Nov-87		
Dec-87		
Jan-88	95.4	1.06236
Feb-88		
Mar-88		
Apr-88	96.3	1.07238
May-88		
Jun-88		
Jul-88	97	1.08018
Aug-88		
Sep-88		
Oct-88	97.7	1.08797
Nov-88		
Dec-88		
Jan-89	98.8	1.10022
Feb-89		
Mar-89		
Apr-89	100	1.11359
May-89		
Jun-89		
Jul-89	101	1.12472
Aug-89		
Sep-89		
Oct-89	101.8	1.13363
Nov-89		

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
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Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Dec-89		
Jan-90	103.3	1.15033
Feb-90		
Mar-90		
Apr-90	104.5	1.16370
May-90		
Jun-90		
Jul-90	105.6	1.17595
Aug-90		
Sep-90		
Oct-90	106.3	1.18374
Nov-90		
Dec-90		
Jan-91	107.5	1.19710
Feb-91		
Mar-91		
Apr-91	108.9	1.21269
May-91		
Jun-91		
Jul-91	110	1.22494
Aug-91		
Sep-91		
Oct-91	110.9	1.23497
Nov-91		
Dec-91		
Jan-92	111.9	1.24610
Feb-92		
Mar-92		
Apr-92	112.9	1.25724
May-92		
Jun-92		
Jul-92	114.1	1.27060
Aug-92		
Sep-92		
Oct-92	114.9	1.27951
Nov-92		
Dec-92		
Jan-93	116.2	1.29399
Feb-93		
Mar-93		
Apr-93	116.4	1.29621
May-93		
Jun-93		
Jul-93	117.8	1.31180
Aug-93		
Sep-93		
Oct-93	118.1	1.31514

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
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Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Nov-93		
Dec-93		
Jan-94	119.4	1.32962
Feb-94		
Mar-94		
Apr-94	120.5	1.34187
May-94		
Jun-94		
Jul-94	121.3	1.35078
Aug-94		
Sep-94		
Oct-94	121.7	1.35523
Nov-94		
Dec-94		
Jan-95	122.6	1.36526
Feb-95		
Mar-95		
Apr-95	123.4	1.37416
May-95		
Jun-95		
Jul-95	123.9	1.37973
Aug-95		
Sep-95		
Oct-95	125	1.39198
Nov-95		
Dec-95		
Jan-96	125.9	1.40200
Feb-96		
Mar-96		
Apr-96	127.3	1.41759
May-96		
Jun-96		
Jul-96	128.3	1.42873
Aug-96		
Sep-96		
Oct-96	128.9	1.43541
Nov-96		
Dec-96		
Jan-97	130.3	1.45100
Feb-97		
Mar-97		
Apr-97	131.4	1.46325
May-97		
Jun-97		
Jul-97	132.5	1.47550
Aug-97		
Sep-97		

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
Jan '86 adjusted to reflect NUREG 1307 Rev 13 Scaling Factor for West Labor (Pg 7)
Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Oct-97	133.4	1.48552
Nov-97		
Dec-97		
Jan-98	135.2	1.50557
Feb-98		
Mar-98		
Apr-98	136.6	1.52116
May-98		
Jun-98		
Jul-98	138.5	1.54232
Aug-98		
Sep-98		
Oct-98	140	1.55902
Nov-98		
Dec-98		
Jan-99	140.3	1.56236
Feb-99		
Mar-99		
Apr-99	142.1	1.58241
May-99		
Jun-99		
Jul-99	143.3	1.59577
Aug-99		
Sep-99		
Oct-99	144.7	1.61136
Nov-99		
Dec-99		
Jan-00	147	1.63697
Feb-00		
Mar-00		
Apr-00	148.8	1.65702
May-00		
Jun-00		
Jul-00	150.8	1.67929
Aug-00		
Sep-00		
Oct-00	151.8	1.69042
Nov-00		
Dec-00		
Jan-01	154.3	1.71826
Feb-01		
Mar-01		
Apr-01	156	1.73719
May-01		
Jun-01		
Jul-01	157.6	1.75501
Aug-01		

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
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Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Sep-01		
Oct-01	159.4	1.77506
Nov-01		
Dec-01		
Jan-02	160.4	1.78619
Feb-02		
Feb-02		
Mar-02		
Apr-02	162.9	1.81403
May-02		
Jun-02		
Jul-02	163.8	1.82405
Aug-02		
Sep-02		
Oct-02	165	1.83742
Nov-02		
Dec-02		
Jan-03	167.3	1.86303
Feb-03		
Mar-03		
Apr-03	169.5	1.88753
May-03		
Jun-03		
Jul-03	171.4	1.90869
Aug-03		
Sep-03		
Oct-03	172.2	1.91759
Nov-03		
Dec-03		
Jan-04	175.3	1.95212
Feb-04		
Mar-04		
Apr-04	176.8	1.96882
May-04		
Jun-04		
Jul-04	178.1	1.98330
Aug-04		
Sep-04		
Oct-04	179.0	1.99332
Nov-04		
Dec-04		
Jan-05	181.4	2.02004
Feb-05		
Mar-05		
Apr-05	183.3	2.04120
May-05		
Jun-05		

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
Jan '86 adjusted to reflect NUREG 1307 Rev 13 Scaling Factor for West Labor (Pg 7)
Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Jul-05	184	2.04900
Aug-05		
Sep-05		
Oct-05 (Note 1)	100	2.06000
Nov-05		
Dec-05		
Jan-06	100.6	2.07236
Feb-06		
Mar-06		
Apr-06	101.8	2.09708
May-06		
Jun-06		
Jul-06	102.5	2.11150
Aug-06		
Sep-06		
Oct-06	103	2.12180
Nov-06		
Dec-06		
Jan-07	104.2	2.14652
Feb-07		
Mar-07		
Apr-07	104.9	2.16094
May-07		
Jun-07		
Jul-07	105.7	2.17742
Aug-07		
Sep-07		
Oct-07	106.5	2.19390
Nov-07		
Dec-07		
Jan-08	107.8	2.22068
Feb-08		
Mar-08		
Apr-08	108.4	2.23304
May-08		
Jun-08		
Jul-08	109.3	2.25158
Aug-08		
Sep-08		
Oct-08	109.4	2.25364
Nov-08		
Dec-08		
Jan-09	109.9	2.26394
Feb-09		
Mar-09		
Apr-09	110.1	2.26806
May-09		

Calculation of Labor Escalation Factor - REFERENCE NUREG-1307, REVISION 13, SECTION 3.1
Using Regional Indices SERIES ID: CIU2010000000240I (as of 03/06/09)
Jan '86 adjusted to reflect NUREG 1307 Rev 13 Scaling Factor for West Labor (Pg 7)
Note 1: The Base Labor factor was re-indexed in December 2005, at which time the index was reset to 100.

	Employment Cost Indust West Region Private Industry (1989=100)	Labor Escalation Factor
Jun-09		
Jul-09	110.3	2.27218
Aug-09		
Sep-09		
Oct-09	110.7	2.28042
Nov-09		
Dec-09		
Jan-10	111.4	2.29484

Jan-10 is an estimate based on the difference between Jul-09 and Oct-09 added to Oct-09

Development of Burial Escalation
Developed from NUREG-1307 Revision 13
Table 2.1 "VALUES OF B SUB-X AS A FUNCTION OF LLW BURIAL SITE, WASTE VENDOR, AND YEAR" (Summary for non-Atlantic Compact)
Revised to Bx Values for Generic LLW Disposal Site (Assumed to be same as that provided for the Atlantic Compact for lack of a better alternative at this time.

	BWR Burial Costs (South Carolina)	**BWR Restated to 1986 = 100**
1986	1.561	1.0000
1987		
1988	1.831	1.1730
1989		
1990		
1991	2.361	1.5125
1992		
1993	9.434	6.0436
1994	9.794	6.2742
1995	10.42	6.6752
1996	10.379	6.6489
1997	13.837	8.8642
1998	13.948	8.9353
1999		0.0000
2000	16.244	10.4061
2001	16.474	10.5535
2002	16.705	10.7015
2003	17.326	11.0993
2004	17.970	11.5119
2005	19.339	12.3889
2006	20.813	13.3331
2007	22.399	14.3491
2008	22.504	14.4164
2009	23.404	14.9931
2010	24.332	15.5874

Table 2.1 Note ('c) From 7/1/95 through 6/30/2000 access was allowed for all states except North Carolina. Effective 7/1/2000 rates are based on whether a waste generator is or is not a member of the Atlantic Compact.

2001 has no information in NUREG-1307 Rev 12. 2001 is an estimate that is calculated by applying the average % change between 2000 and 2002 and adding to the 2000 base

2003 has no information in NUREG-1307 Rev 12. 2003 is an estimate that is calculated by applying the average % change between 2002 and 2004 and adding to the 2002 base

2005 has no information in NUREG-1307 Rev 12. 2005 is an estimate that is calculated by applying the average % change between 2004 and 2006 and adding to the 2004 base.

2007 has no information in NUREG-1307 Rev 12. 2007 is an estimate that is calculated by applying the average % change between 2004 and 2006 and adding to the 2006 base.

2008 has no information in NUREG-1307 Rev 12. 2008 is an estimate that is calculated by applying the average % change between 2004 and 2006 and adding to the 2007 base.

2009 has no information in NUREG-1307 Rev 13. 2009 is an estimate that is calculated by applying the average % change between 2006 and 2008 and adding to the 2008 base.

2010 has no information in NUREG-1307 Rev 13. 2010 is an estimate that is calculated by applying the average % change between 2006 and 2008 and adding to the 2008 base

Humboldt Bay Power Plant Unit 3

Decommissioning Cost Estimate

(9 Pages)

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
PERIOD 2 - SAFSTOR Dormancy																							
	ISFSI Completed Projects																						
	ISFSI Design & Licensing 1998-2000			-	-	-	-	5,362		5,362	-	-	-	-	-	-	-	-	-	-	5,362	-	5,362
	ISFSI Design & Licensing 2001			-	-	-	-	398		398	-	-	-	-	-	-	-	-	-	-	398	-	398
	ISFSI Design & Licensing 2002			-	-	-	-	114		114	-	-	-	-	-	-	-	-	-	-	114	-	114
	ISFSI Design & Licensing 2003			-	-	-	-	2,539		2,539	-	-	-	-	-	-	-	-	-	-	2,539	-	2,539
	ISFSI Design & Licensing 2004			-	-	-	-	1,445		1,445	-	-	-	-	-	-	-	-	-	-	1,445	-	1,445
	ISFSI Design & Licensing 2005			-	-	-	-	1,672		1,672	-	-	-	-	-	-	-	-	-	-	1,672	-	1,672
	ISFSI Design & Licensing 2006			-	-	-	-	3,547		3,547	-	-	-	-	-	-	-	-	-	-	3,547	-	3,547
	ISFSI Design/Licensing/Construction 2007			-	-	-	-	9,509		9,509	-	-	-	-	-	-	-	-	-	-	9,509	-	9,509
	ISFSI Design/Licensing/Construction 2008			-	-	-	-	29,200		29,200	-	-	-	-	-	-	-	-	-	-	29,200	-	29,200
	ISFSI Design/Licensing/Construction 2009			-	-	-	-	500		500	-	-	-	-	-	-	-	-	-	-	500	-	500
	HBPP Unit #3 1996 - 2008 Completed Projects																						
	Dismantlement of Ventilation Stack			-	-	-	-	5,740		5,740	-	-	-	-	-	-	-	-	-	-	5,740	-	5,740
	Caisson In-Leakage Repair			-	-	-	-	1,528		1,528	-	-	-	-	-	-	-	-	-	-	1,528	-	1,528
	Suppression Chamber/Remove Baffling & Floor Plates			-	-	-	-	7,931		7,931	-	-	-	-	-	-	-	-	-	-	7,931	-	7,931
	Site Characterization for Dismantlement			-	-	-	-	1,150		1,150	-	-	-	-	-	-	-	-	-	-	1,150	-	1,150
	Miscellaneous Dismantlement Activities			-	-	-	-	300		300	-	-	-	-	-	-	-	-	-	-	300	-	300
	Planning Decommissioning Activity/Misc Dismantlement Activities			-	-	-	-	864		864	-	-	-	-	-	-	-	-	-	-	864	-	864
	Remove & Dispose Asbestos			-	-	-	-	800		800	-	-	-	-	-	-	-	-	-	-	800	-	800
	Radiological Characterization Plant Systems			-	-	-	-	732		732	-	-	-	-	-	-	-	-	-	-	732	-	732
	Irradiated Hardware Spent Fuel Pool Cleanout and Disposal			-	-	-	-	2,676		2,676	-	-	-	-	-	-	-	-	-	-	2,676	-	2,676
	Removal & Disposal Energy Absorber			-	-	-	-	122		122	-	-	-	-	-	-	-	-	-	-	122	-	122
	Removal & Disposal Control Rod Drive Hydraulic Pump Equipment			-	-	-	-	201		201	-	-	-	-	-	-	-	-	-	-	201	-	201
	Removal & Disposal Service Water Heat Exchanger Equipment			-	-	-	-	66		66	-	-	-	-	-	-	-	-	-	-	66	-	66
	Removal & Disposal Reactor Water Cleanup Demineralizer Resin Tank			-	-	-	-	37		37	-	-	-	-	-	-	-	-	-	-	37	-	37
	Removal/Disposal Class A Radioactive Waste Material			-	-	-	-	1,045		1,045	-	-	-	-	-	-	-	-	-	-	1,045	-	1,045
	Removal/Disposal Class B & C Materials incl Resin			-	-	-	-	4,822		4,822	-	-	-	-	-	-	-	-	-	-	4,822	-	4,822
PERIOD 2 TOTALS				-	-	-	-	82,301	-	82,301	-	-	-	-	-	-	-	-	-	-	82,301	-	
PERIOD 3b - Planning and Preparation																							
Period 3b Additional Costs																							
3b.2.1	*Additional Support Facilities - Radiological Protection*			-	-	-	-	1,385	267	1,652	-	-	-	-	-	-	-	-	-	-	1,465	282	1,747
3b.2.2	Additional Support Facilities - Access, Fencing, Laydown Areas			-	-	-	-	378	73	451	-	-	-	-	-	-	-	-	-	-	400	77	477
3b.2.3	Personnel & Material Access RB Access Shaft			-	-	-	-	520	100	620	-	-	-	-	-	-	-	-	-	-	550	106	655
3b.2.4	*Cross Contamination Plan*			-	-	-	-	720	180	900	-	-	-	-	-	-	-	-	-	-	762	190	952
3b.2.5	*Replacement of Rad Protection Access Software System*			-	-	-	-	480	120	600	-	-	-	-	-	-	-	-	-	-	508	127	635
3b.2.6	*Employee Emergency Notification System*			-	-	-	-	320	80	400	-	-	-	-	-	-	-	-	-	-	338	85	423
3b.2.7	*Infrastructure for Facility Modifications*			-	-	-	-	720	180	900	-	-	-	-	-	-	-	-	-	-	762	190	952
3b.2.8	Mixed Waste Disposal			3	7	-	61	-	21	92	126	-	-	-	-	-	4	8	-	70	-	23	104
3b.2.9	Rebuild Refueling Building Crane			-	-	-	-	1,418	273	1,691	-	-	-	-	-	-	-	-	-	-	1,500	289	1,789
3b.2.10	Sr-90 Groundwater Program			-	-	-	-	454	87	541	-	-	-	-	-	-	-	-	-	-	480	93	573
3b.2.11	*Package Legacy Class B & C Waste*			-	-	-	-	1,535	296	1,831	-	-	-	-	-	-	-	-	-	-	1,624	313	1,937
3b.2.12	Procure Initial Inventory of Tools and Equipment			-	-	-	-	2,100	405	2,505	-	-	-	-	-	-	-	-	-	-	2,221	428	2,650
3b.2	Subtotal Period 3b Additional Costs			3	7	-	61	10,030	2,083	12,183	126	-	-	-	-	-	4	8	-	70	10,609	2,203	12,894
Period 3b Collateral Costs																							
3b.3.1	Decon equipment	954	-	-	-	-	-	-	613	1,568	-	-	-	-	1,010	-	-	-	-	-	-	649	1,658
3b.3.2	DOC staff relocation expenses	-	-	-	-	-	-	1,436	277	1,713	-	-	-	-	-	-	-	-	-	-	1,519	293	1,812
3b.3.3	Pipe cutting equipment	-	1,000	-	-	-	-	-	321	1,321	-	-	-	-	-	1,058	-	-	-	-	-	340	1,398
3b.3	Subtotal Period 3b Collateral Costs	954	1,000	-	-	-	-	1,436	1,211	4,602	-	-	-	-	1,010	1,058	-	-	-	-	1,519	1,281	4,868
Period 3b Period-Dependent Costs																							

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
3b.4.1	Decon supplies	14	-	-	-	-	-	-	5	19	-	-	-	-	15	-	-	-	-	-	-	5	20
Period 3b Period-Dependent Costs (continued)															-	-	-	-	-	-	-	-	-
3b.4.2	Insurance	-	-	-	-	-	-	20	3	23	-	-	-	-	-	-	-	-	-	-	21	3	24
3b.4.3	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3b.4.4	Health physics supplies	-	146	-	-	-	-	-	47	192	-	-	-	-	-	154	-	-	-	-	-	49	203
3b.4.5	Heavy equipment rental	-	74	-	-	-	-	-	24	97	-	-	-	-	-	78	-	-	-	-	-	25	103
3b.4.6	Disposal of DAW generated	-	-	0	0	-	29	-	9	39	116	-	-	-	-	-	0	0	-	34	-	10	44
3b.4.7	Plant energy budget	-	-	-	-	-	-	45	9	53	-	-	-	-	-	-	-	-	-	-	47	9	56
3b.4.8	NRC Fees	-	-	-	-	-	-	61	8	69	-	-	-	-	-	-	-	-	-	-	65	8	73
3b.4.9	Emergency Planning Fees	-	-	-	-	-	-	25	3	28	-	-	-	-	-	-	-	-	-	-	26	3	30
3b.4.10	Environmental / Engineering Support	-	-	-	-	-	-	999	192	1,191	-	-	-	-	-	-	-	-	-	-	1,056	204	1,260
3b.4.11	ISFSI Operating Costs	-	-	-	-	-	-	21	4	25	-	-	-	-	-	-	-	-	-	-	22	4	26
3b.4.12	Security Staff Cost	-	-	-	-	-	-	897	173	1,070	-	-	-	-	-	-	-	-	-	-	949	183	1,132
3b.4.13	DOC Staff Cost	-	-	-	-	-	-	2,151	415	2,566	-	-	-	-	-	-	-	-	-	-	2,276	439	2,714
3b.4.14	Utility Staff Cost	-	-	-	-	-	-	1,246	240	1,486	-	-	-	-	-	-	-	-	-	-	1,318	254	1,572
3b.4	Subtotal Period 3b Period-Dependent Costs	14	219	0	0	-	29	5,465	1,131	6,860	116	-	-	-	15	232	0	0	-	34	5,781	1,196	7,259
3b.0	TOTAL PERIOD 3b COST	969	1,219	4	7	-	90	16,931	4,425	23,645	242	-	-	-	1,025	1,290	4	8	-	104	17,909	4,681	25,021
PERIOD 3 TOTALS		969	1,219	4	7	-	90	16,931	4,425	23,645	242	-	-	-	1,025	1,290	4	8	-	104	17,909	4,681	25,021
PERIOD 4a - Systems Removal																							
Period 4a Direct Decommissioning Activities																							
Removal of Major Equipment																							
4a.1.1	Main Turbine/Generator	-	555	70	102	-	1,469	-	679	2,875	5,850	-	-	-	-	587	74	118	-	1,698	-	718	3,195
4a.1.2	Main Condensers	-	496	914	41	-	3,047	-	1,264	5,762	12,135	-	-	-	-	525	966	48	-	3,521	-	1,337	6,397
4a.1.3	Remove Spent Fuel Racks	55	11	23	21	-	510	-	210	830	2,025	-	-	-	58	11	24	24	-	590	-	222	929
4a.1.4	Fuel Pool Cleanup	-	-	-	-	-	-	415	80	495	-	-	-	-	-	-	-	-	-	-	439	85	524
Disposal of Plant Systems																							
4a.1.5.1	RB2-1	-	119	20	6	-	169	-	96	410	868	-	-	-	-	126	21	6	-	196	-	102	450
4a.1.5.2	RB2-2	-	124	25	7	-	233	-	119	509	1,089	-	-	-	-	131	27	8	-	269	-	126	561
4a.1.5.3	RB2-3	-	205	9	2	-	20	-	74	310	322	-	-	-	-	217	10	2	-	23	-	78	330
4a.1.5.4	RB2-4	-	48	3	1	-	8	-	18	78	123	-	-	-	-	51	3	1	-	9	-	20	84
4a.1.5.5	RB2-5	-	284	54	10	-	96	-	131	575	1,551	-	-	-	-	301	57	12	-	111	-	139	619
4a.1.5.6	RB2-6	-	367	24	7	-	63	-	143	604	1,024	-	-	-	-	388	25	8	-	73	-	151	646
4a.1.5.7	RB3-1	-	95	14	3	-	64	-	53	229	407	-	-	-	-	100	15	3	-	74	-	56	249
4a.1.5.8	RB4-1	-	148	30	9	-	213	-	121	520	1,354	-	-	-	-	156	32	10	-	246	-	128	572
4a.1.5.9	TB1-1	-	283	122	41	-	1,620	-	635	2,702	6,430	-	-	-	-	300	129	47	-	1,872	-	672	3,020
4a.1.5.10	TB1-2	-	4	-	-	-	-	-	1	5	-	-	-	-	-	4	-	-	-	-	-	1	5
4a.1.5.11	TB1-3	-	16	-	-	-	-	-	5	21	-	-	-	-	-	17	-	-	-	-	-	6	23
4a.1.5.12	TB2-1	-	1,149	117	34	-	1,341	-	822	3,462	5,321	-	-	-	-	1,216	123	39	-	1,550	-	869	3,797
4a.1.5.13	TB2-2	-	38	-	-	-	-	-	12	51	-	-	-	-	-	41	-	-	-	-	-	13	54
4a.1.5.14	TB3-1	-	509	85	23	-	429	-	316	1,361	3,601	-	-	-	-	538	90	26	-	495	-	335	1,484
4a.1.5.15	TB3-2	-	6	-	-	-	-	-	2	8	-	-	-	-	-	7	-	-	-	-	-	2	9
4a.1.5.16	TB3-3 clean area	-	10	-	-	-	-	-	3	14	-	-	-	-	-	11	-	-	-	-	-	4	15
4a.1.5.17	TB4-1	-	117	20	6	-	167	-	95	404	950	-	-	-	-	123	21	7	-	193	-	100	445
4a.1.5.18	TB4-2	-	697	62	17	-	458	-	382	1,615	2,602	-	-	-	-	737	65	19	-	529	-	404	1,755
4a.1.5.19	TB5-1	-	153	12	3	-	141	-	97	406	560	-	-	-	-	162	13	4	-	163	-	102	444
4a.1.5.20	TB5-2	-	92	13	3	-	107	-	66	280	498	-	-	-	-	97	14	4	-	123	-	70	307
4a.1.5.21	TB6-1	-	109	19	5	-	131	-	80	344	742	-	-	-	-	116	20	5	-	151	-	85	377
4a.1.5.22	TB6-2	-	128	26	7	-	202	-	111	474	1,148	-	-	-	-	136	27	8	-	234	-	117	522
4a.1.5.23	YARD	-	2	-	-	-	-	-	1	2	-	-	-	-	-	2	-	-	-	-	-	1	2
4a.1.5.24	YD1-1 clean area	-	15	-	-	-	-	-	5	20	-	-	-	-	-	16	-	-	-	-	-	5	22
4a.1.5	Totals	-	4,719	654	182	-	5,462	-	3,390	14,406	28,591	-	-	-	-	4,992	692	210	-	6,311	-	3,585	15,790
4a.1.6	Scaffolding in support of decommissioning	-	151	4	0	10	6	-	53	225	20	-	-	-	-	160	4	0	12	7	-	56	240

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
4a.1	Subtotal Period 4a Activity Costs	55	5,932	1,664	346	10	10,495	415	5,675	24,593	48,622	-	-	-	58	6,275	1,760	400	12	12,127	439	6,003	27,076
Period 4a Additional Costs																							
4a.2.1	Modifications Supporting Access for Equipment Removal		-	-	-	-	-	170	33	203	-	-	-	-	-	-	-	-	-	-	180	35	214
4a.2.2	*Activation Analysis of Reactor*	-	-	-	-	-	-	80	20	100	-	-	-	-	-	-	-	-	-	-	85	21	106
	Subtotal Period 4a Additional Costs	-	-	-	-	-	-	250	53	303	-	-	-	-	-	-	-	-	-	-	264	56	320
Period 4a Collateral Costs																							
4a.3.1	Process liquid waste	15	-	8	34	-	26	-	26	108	104	-	-	-	16	-	8	39	-	30	-	27	121
4a.3.2	Small tool allowance	-	93	-	-	-	-	-	30	123	-	-	-	-	-	99	-	-	-	-	-	32	131
4a.3	Subtotal Period 4a Collateral Costs	15	93	8	34	-	26	-	56	232	104	-	-	-	16	99	8	39	-	30	-	59	251
Period 4a Period-Dependent Costs																							
4a.4.1	Decon supplies	117	-	-	-	-	-	-	37	154	-	-	-	-	123	-	-	-	-	-	-	40	163
4a.4.2	Insurance	-	-	-	-	-	-	162	21	183	-	-	-	-	-	-	-	-	-	-	172	22	194
4a.4.3	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4a.4.4	Health physics supplies	-	2,385	-	-	-	-	-	766	3,152	-	-	-	-	-	2,523	-	-	-	-	-	811	3,334
4a.4.5	Heavy equipment rental	-	1,268	-	-	-	-	-	407	1,675	-	-	-	-	-	1,341	-	-	-	-	-	431	1,772
4a.4.6	Disposal of DAW generated	-	-	8	3	-	844	-	273	1,128	3,349	-	-	-	-	-	9	4	-	975	-	289	1,276
4a.4.7	Plant energy budget	-	-	-	-	-	-	459	89	548	-	-	-	-	-	-	-	-	-	-	486	94	580
4a.4.8	NRC Fees	-	-	-	-	-	-	1,316	169	1,485	-	-	-	-	-	-	-	-	-	-	1,392	179	1,571
4a.4.9	Emergency Planning Fees	-	-	-	-	-	-	202	26	228	-	-	-	-	-	-	-	-	-	-	214	27	241
4a.4.10	Environmental / Engineering Support	-	-	-	-	-	-	7,273	1,402	8,675	-	-	-	-	-	-	-	-	-	-	7,693	1,483	9,176
4a.4.11	ISFSI Operating Costs	-	-	-	-	-	-	170	33	203	-	-	-	-	-	-	-	-	-	-	180	35	214
4a.4.12	Security Staff Cost	-	-	-	-	-	-	7,182	1,384	8,567	-	-	-	-	-	-	-	-	-	-	7,597	1,464	9,062
4a.4.13	DOC Staff Cost	-	-	-	-	-	-	21,109	4,069	25,177	-	-	-	-	-	-	-	-	-	-	22,328	4,304	26,632
4a.4.14	Utility Staff Cost	-	-	-	-	-	-	12,325	2,376	14,700	-	-	-	-	-	-	-	-	-	-	13,037	2,513	15,550
4a.4	Subtotal Period 4a Period-Dependent Costs	117	3,653	8	3	-	844	50,198	11,052	65,875	3,349	-	-	-	123	3,864	9	4	-	975	53,099	11,690	69,765
4a.0	TOTAL PERIOD 4a COST	187	9,679	1,680	383	10	11,365	50,863	16,835	91,003	52,075	-	-	-	198	10,238	1,777	443	12	13,133	53,802	17,808	97,411
PERIOD 4b - Reactor Vessel Removal																							
Period 4b Direct Decommissioning Activities															-	-	-	-	-	-	-	-	-
Nuclear Steam Supply System Removal																							
4b.1.1.1	CRDMs & NIs Removal	4	31	104	20	-	202	-	95	456	913	-	-	-	5	33	110	23	-	233	-	100	504
4b.1.1.2	Reactor Vessel Internals	13	1,774	1,656	384	-	1,497	119	3,358	8,802	506	-	470	-	14	1,877	1,752	444	-	1,730	126	3,552	9,494
4b.1.1.3	Reactor Vessel	2	4,098	536	132	-	7,966	119	9,306	22,158	381	2,699	-	-	2	4,335	567	152	-	9,205	126	9,844	24,230
4b.1.1	Totals	20	5,903	2,296	536	-	9,664	238	12,759	31,416	1,800	2,699	470	-	21	6,244	2,428	619	-	11,168	251	13,497	34,229
Disposal of Plant Systems																							
4b.1.2.1	RB2-7	-	306	28	6	-	108	-	138	585	904	-	-	-	-	324	30	7	-	124	-	146	630
4b.1.2.2	RB2-8	115	269	62	21	-	203	-	237	906	3,267	-	-	-	122	284	65	24	-	234	-	251	980
4b.1.2.3	RB2-9	115	267	59	20	-	192	-	233	886	3,104	-	-	-	122	283	62	23	-	222	-	246	958
4b.1.2.4	RW1-1	-	265	27	7	-	283	-	181	764	1,124	-	-	-	-	280	29	8	-	327	-	192	836
4b.1.2.5	RW1-2	-	269	54	16	-	161	-	148	648	2,604	-	-	-	-	284	57	18	-	187	-	157	703
4b.1.2.6	RW1-3	-	5	1	0	-	8	-	4	19	34	-	-	-	-	6	1	0	-	9	-	5	20
4b.1.2.7	RW1-4	-	122	15	4	-	173	-	98	412	741	-	-	-	-	129	16	5	-	199	-	103	453
4b.1.2.8	RW1-5	-	108	11	3	-	140	-	82	343	554	-	-	-	-	114	12	4	-	161	-	86	377
4b.1.2.9	RW1-6	-	49	14	4	-	44	-	32	144	708	-	-	-	-	52	15	5	-	51	-	34	157
4b.1.2.10	RW1-7	-	19	5	1	-	11	-	10	47	172	-	-	-	-	21	5	1	-	12	-	11	50
4b.1.2.11	RW1-8	-	5	1	0	-	2	-	3	11	34	-	-	-	-	6	1	0	-	2	-	3	12
4b.1.2.12	RW1-9	-	4	0	0	-	1	-	2	7	17	-	-	-	-	4	0	0	-	1	-	2	8
4b.1.2.13	RWP	-	178	-	-	-	-	-	57	235	-	-	-	-	-	188	-	-	-	-	-	61	249
4b.1.2	Totals	230	1,867	277	83	-	1,325	-	1,225	5,006	13,264	-	-	-	243	1,975	293	96	-	1,531	-	1,295	5,433
4b.1.3	Scaffolding in support of decommissioning	-	189	5	0	13	8	-	66	281	25	-	-	-	-	200	5	0	15	9	-	70	300
4b.1	Subtotal Period 4b Activity Costs	249	7,959	2,577	619	13	10,998	238	14,050	36,703	15,089	2,699	470	-	264	8,419	2,726	715	15	12,709	251	14,862	39,962

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
Period 4b Additional Costs																							
4b.2.1	Discharge Piping	50	21	9	36	-	144	-	94	354	2,361	-	-	-	53	22	9	41	-	167	-	99	392
4b.2.2	Asbestos Removal	-	-	-	-	-	-	285	55	340	-	-	-	-	-	-	-	-	-	-	302	58	360
4b.2.3	Expand Waste Packaging Laydown Area	-	-	-	-	-	-	136	26	162	-	-	-	-	-	-	-	-	-	-	144	28	171
4b.2	Subtotal Period 4b Additional Costs	50	21	9	36	-	144	421	175	856	2,361	-	-	-	53	22	9	41	-	167	445	185	923
Period 4b Collateral Costs																							
4b.3.1	Process liquid waste	31	-	15	68	-	53	-	52	218	210	-	-	-	32	-	16	78	-	61	-	55	242
4b.3.2	Small tool allowance	-	73	-	-	-	-	-	23	96	-	-	-	-	-	77	-	-	-	-	-	25	102
4b.3	Subtotal Period 4b Collateral Costs	31	73	15	68	-	53	-	75	314	210	-	-	-	32	77	16	78	-	61	-	79	344
Period 4b Period-Dependent Costs																							
4b.4.1	Decon supplies	475	-	-	-	-	-	-	153	628	-	-	-	-	503	-	-	-	-	-	-	162	664
4b.4.2	Insurance	-	-	-	-	-	-	122	16	138	-	-	-	-	-	-	-	-	-	-	129	17	146
4b.4.3	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4b.4.4	Health physics supplies	-	1,822	-	-	-	-	-	585	2,407	-	-	-	-	-	1,927	-	-	-	-	-	619	2,546
4b.4.5	Heavy equipment rental	-	2,261	-	-	-	-	-	726	2,988	-	-	-	-	-	2,392	-	-	-	-	-	768	3,160
4b.4.6	Disposal of DAW generated	-	-	6	3	-	652	-	211	872	2,587	-	-	-	-	-	7	3	-	753	-	223	986
4b.4.7	Plant energy budget	-	-	-	-	-	-	273	53	325	-	-	-	-	-	-	-	-	-	-	289	56	344
4b.4.8	NRC Fees	-	-	-	-	-	-	990	127	1,117	-	-	-	-	-	-	-	-	-	-	1,047	135	1,182
4b.4.9	Emergency Planning Fees	-	-	-	-	-	-	152	20	171	-	-	-	-	-	-	-	-	-	-	161	21	181
4b.4.10	Environmental / Engineering Support	-	-	-	-	-	-	4,225	814	5,039	-	-	-	-	-	-	-	-	-	-	4,469	861	5,330
4b.4.11	Radwaste Processing Equipment/Services	-	-	-	-	-	-	564	109	673	-	-	-	-	-	-	-	-	-	-	597	115	712
4b.4.12	ISFSI Operating Costs	-	-	-	-	-	-	128	25	152	-	-	-	-	-	-	-	-	-	-	135	26	161
4b.4.13	Security Staff Cost	-	-	-	-	-	-	5,387	1,038	6,425	-	-	-	-	-	-	-	-	-	-	5,698	1,098	6,797
4b.4.14	DOC Staff Cost	-	-	-	-	-	-	14,641	2,822	17,463	-	-	-	-	-	-	-	-	-	-	15,487	2,985	18,472
4b.4.15	Utility Staff Cost	-	-	-	-	-	-	9,835	1,896	11,731	-	-	-	-	-	-	-	-	-	-	10,404	2,005	12,409
4b.4	Subtotal Period 4b Period-Dependent Costs	475	4,083	6	3	-	652	36,316	8,594	50,129	2,587	-	-	-	503	4,319	7	3	-	753	38,415	9,090	53,089
4b.0	TOTAL PERIOD 4b COST	806	12,136	2,608	725	13	11,847	36,975	22,894	88,003	20,246	2,699	470	-	852	12,837	2,759	837	15	13,690	39,111	24,217	94,318
PERIOD 4c - Prepare Buildings for Demolition																							
Period 4c Direct Decommissioning Activities																							
Disposal of Plant Systems																							
4c.1.1.1	HMS1-1	-	36	8	3	-	34	-	24	105	419	-	-	-	-	38	9	3	-	39	-	25	114
4c.1.1.2	HMS1-2	-	5	3	1	-	9	-	5	24	152	-	-	-	-	6	3	1	-	11	-	6	26
4c.1.1.3	HMSP	-	6	1	0	-	2	-	3	12	34	-	-	-	-	6	1	0	-	2	-	3	13
4c.1.1.4	OTS-1	-	6	-	-	-	-	-	2	7	-	-	-	-	-	6	-	-	-	-	-	2	8
4c.1.1.5	OTS-2	-	6	-	-	-	-	-	2	8	-	-	-	-	-	6	-	-	-	-	-	2	8
4c.1.1.6	OTS-3	-	7	-	-	-	-	-	2	10	-	-	-	-	-	8	-	-	-	-	-	3	10
4c.1.1.7	OTS-4	-	6	-	-	-	-	-	2	8	-	-	-	-	-	6	-	-	-	-	-	2	8
4c.1.1.8	OTS-5	-	25	3	1	-	21	-	15	65	84	-	-	-	-	27	3	1	-	25	-	16	71
4c.1.1.9	OTS-6	-	1	-	-	-	-	-	0	1	-	-	-	-	-	1	-	-	-	-	-	0	1
4c.1.1.10	RB1-1	-	88	8	2	-	91	-	59	248	361	-	-	-	-	93	9	3	-	105	-	62	272
4c.1.1.11	RB1-2	-	32	3	1	-	29	-	20	85	116	-	-	-	-	34	3	1	-	34	-	21	93
4c.1.1.12	RB1-3	-	21	2	1	-	7	-	9	40	106	-	-	-	-	22	2	1	-	8	-	10	43
4c.1.1.13	RB1-4	-	116	14	4	-	50	-	56	239	611	-	-	-	-	122	15	4	-	57	-	59	258
4c.1.1.14	RB1-5	-	127	16	4	-	44	-	58	249	711	-	-	-	-	134	17	5	-	51	-	61	268
4c.1.1.15	RB1-6	52	211	20	6	-	228	-	178	695	907	-	-	-	55	223	21	7	-	264	-	189	758
4c.1.1.16	RB3-2	-	15	3	1	-	22	-	12	53	93	-	-	-	-	16	3	1	-	25	-	13	58
4c.1.1.17	RB4-2	-	62	7	2	-	76	-	46	193	325	-	-	-	-	66	7	2	-	88	-	48	211
4c.1.1.18	RB5-1	-	23	3	1	-	9	-	11	47	148	-	-	-	-	24	3	1	-	11	-	11	51
4c.1.1.19	RB5-1 (HVAC Scope)	-	22	9	3	-	29	-	18	80	467	-	-	-	-	23	9	3	-	33	-	19	88
4c.1.1.20	RBP	23	199	2	2	-	8	-	82	315	135	-	-	-	25	210	2	2	-	9	-	87	334
4c.1.1.21	TB7-1	-	59	-	-	-	-	-	19	78	-	-	-	-	-	63	-	-	-	-	-	20	83
4c.1.1.22	TB7-2	-	9	-	-	-	-	-	3	13	-	-	-	-	-	10	-	-	-	-	-	3	13
4c.1.1.23	TB7-3	-	11	4	1	-	13	-	9	38	209	-	-	-	-	12	4	2	-	15	-	9	42
4c.1.1.24	TB7-4	-	13	1	0	-	3	-	5	21	28	-	-	-	-	13	1	0	-	3	-	5	23

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
4c.1.1.25	TB7-5	-	27	8	2	-	11	-	13	61	348	-	-	-	-	28	8	3	-	12	-	14	66
4c.1.1.26	TB7-6	-	39	10	3	-	100	-	47	199	514	-	-	-	-	41	11	4	-	116	-	49	221
Disposal of Plant Systems (continued)															-	-	-	-	-	-	-	-	-
4c.1.1.27	TB7-7	-	13	-	-	-	-	-	4	18	-	-	-	-	-	14	-	-	-	-	-	5	19
4c.1.1.28	TBP	-	1,000	-	-	-	-	-	321	1,322	-	-	-	-	-	1,058	-	-	-	-	-	340	1,398
4c.1.1.29	YD1-2	-	7	2	1	-	31	-	13	55	124	-	-	-	-	8	2	1	-	36	-	14	61
4c.1.1.30	YD1-5	-	9	2	1	-	7	-	6	25	114	-	-	-	-	10	2	1	-	8	-	6	27
4c.1.1.31	YD2-1	-	56	4	1	-	14	-	23	98	168	-	-	-	-	59	4	1	-	16	-	24	105
4c.1.1.32	YD2-2	-	19	3	1	-	8	-	9	40	133	-	-	-	-	20	3	1	-	10	-	10	43
4c.1.1.33	YD2-3	-	8	2	1	-	9	-	6	26	111	-	-	-	-	8	3	1	-	10	-	6	28
4c.1.1.34	YD2-4	-	116	30	8	-	351	-	156	661	1,394	-	-	-	-	123	31	10	-	406	-	165	735
4c.1.1.35	YD2-5	-	253	46	15	-	585	-	278	1,176	2,320	-	-	-	-	268	49	17	-	676	-	294	1,303
4c.1.1.36	YD2-6	-	185	28	9	-	350	-	177	750	1,390	-	-	-	-	196	30	10	-	405	-	188	828
4c.1.1.37	YDP	-	178	17	5	-	54	-	78	331	864	-	-	-	-	188	18	6	-	62	-	82	356
4c.1.1	Totals	76	3,016	258	78	-	2,195	-	1,771	7,393	12,387	-	-	-	80	3,190	273	91	-	2,536	-	1,873	8,043
4c.1.2	Scaffolding in support of decommissioning	-	38	1	0	3	2	-	13	56	5	-	-	-	-	40	1	0	3	2	-	14	60
Decontamination of Site Buildings																							
4c.1.3.1	HMS	-	57	6	4	-	18	-	25	110	281	-	-	-	-	61	6	4	-	20	-	27	118
4c.1.3.2	Hot Machine Shop & Calibration	-	3	1	0	-	9	-	4	18	48	-	-	-	-	4	1	0	-	10	-	4	20
4c.1.3.3	RB1	91	1,748	542	180	-	3,807	-	1,948	8,317	18,660	-	-	-	96	1,849	574	208	-	4,400	-	2,060	9,187
4c.1.3.4	RB2	-	3,120	207	49	-	1,693	-	1,582	6,651	6,249	-	-	-	-	3,300	219	57	-	1,956	-	1,674	7,206
4c.1.3.5	RB3	-	99	7	3	-	54	-	51	214	328	-	-	-	-	105	7	4	-	62	-	54	232
4c.1.3.6	RB4	-	81	7	3	-	54	-	45	191	336	-	-	-	-	86	7	4	-	63	-	48	208
4c.1.3.7	RB5-1 (Refuel Bldg Roof)	-	19	4	3	-	12	-	11	47	190	-	-	-	-	20	4	3	-	14	-	11	52
4c.1.3.8	RW1	-	534	166	44	-	1,289	-	616	2,649	5,192	-	-	-	-	565	176	51	-	1,490	-	651	2,933
4c.1.3.9	Refueling	-	3	4	1	-	46	-	16	70	190	-	-	-	-	3	4	1	-	53	-	17	79
4c.1.3.10	TB1	-	93	8	5	-	46	-	47	198	417	-	-	-	-	98	9	6	-	53	-	49	215
4c.1.3.11	TB2	-	122	11	7	-	47	-	57	244	538	-	-	-	-	129	11	8	-	54	-	60	263
4c.1.3.12	TB3	-	30	6	4	-	25	-	19	84	293	-	-	-	-	32	6	4	-	29	-	20	92
4c.1.3.13	TB4	-	203	11	6	-	73	-	91	385	565	-	-	-	-	215	12	7	-	84	-	97	415
4c.1.3.14	TB5	-	87	4	3	-	13	-	33	140	209	-	-	-	-	92	4	3	-	15	-	35	149
4c.1.3.15	TB6	-	76	4	3	-	12	-	29	124	196	-	-	-	-	80	4	3	-	14	-	31	132
4c.1.3.16	TB7	-	31	6	4	-	20	-	18	79	313	-	-	-	-	33	7	5	-	23	-	19	85
4c.1.3.17	Turbine	-	4	4	1	-	54	-	20	83	223	-	-	-	-	4	5	1	-	63	-	21	93
4c.1.3.18	YD1	-	24	3	2	-	8	-	11	47	129	-	-	-	-	25	3	2	-	9	-	12	51
4c.1.3.19	YD2	-	98	12	8	-	36	-	46	200	582	-	-	-	-	104	12	9	-	42	-	49	216
4c.1.3	Totals	91	6,434	1,012	330	-	7,315	-	4,669	19,851	34,940	-	-	-	96	6,805	1,071	382	-	8,453	-	4,939	21,746
4c.1 Activity Costs		166	9,487	1,271	409	3	9,511	-	6,453	27,300	47,332	-	-	-	176	10,036	1,345	472	3	10,991	-	6,826	29,849
Period 4c Additional Costs																							
4c.2.1	Contaminated Soil Removal	-	211	663	2,567	-	14,035	-	5,157	22,633	169,154												
4c.2.2	Replacement of Drains and Catch Basins	-	75	-	-	-	-	-	24	99	-	-	-	-	-	80	-	-	-	-	-	26	105
4c.2.3	Caisson Mixed Waste Removal	-	159	10	40	-	1,175	-	438	1,822	2,433	-	-	-	-	168	11	47	-	1,358	-	463	2,046
4c.2.4	Site work supporting spent fuel pool removal	-	-	-	-	-	-	990	191	1,180	-	-	-	-	-	-	-	-	-	-	1,047	202	1,249
4c.2.5	Removal of 3 spent fuel pool walls	-	704	68	418	-	3,479	-	1,433	6,101	24,120	-	-	-	-	744	72	483	-	4,020	-	1,516	6,835
4c.2.6	Removal of Yard Pipe Tunnel	-	647	14	205	-	2,561	-	1,072	4,498	10,162	-	-	-	-	684	14	237	-	2,959	-	1,134	5,028
4c.2.7	Contaminated Soil & Concrete Storage Facility	-	-	-	-	-	-	436	84	520	-	-	-	-	-	-	-	-	-	-	461	89	550
4c.2	Total	-	1,796	754	3,230	-	21,250	1,425	8,398	36,854	205,869	-	-	-	-	1,900	798	3,732	-	24,556	1,508	8,883	41,378
Period 4c Collateral Costs																							
4c.3.1	*Process liquid waste*	*28*	-	*14*	*61*	-	*48*	-	*47*	*197*	*189*	-	-	-	*29*	-	*14*	*71*	-	*55*	-	*49*	*219*
4c.3.2	Small tool allowance	-	179	-	-	-	-	-	58	237	-	-	-	-	-	190	-	-	-	-	-	61	251
4c.3.3	Decommissioning Equipment Disposition	-	-	206	7	540	335	-	240	1,328	1,058	-	-	-	-	-	218	8	624	388	-	254	1,491
4c.3	Subtotal Period 4c Collateral Costs	28	179	220	68	540	383	-	344	1,762	1,247	-	-	-	29	190	233	78	624	443	-	364	1,961
Period 4c Period-Dependent Costs																							
4c.4.1	Decon supplies	58	-	-	-	-	-	-	19	77	-	-	-	-	62	-	-	-	-	-	-	20	82
4c.4.2	Insurance	-	-	-	-	-	-	72	9	81	-	-	-	-	-	-	-	-	-	-	76	10	86

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
4c.4.3	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4c.4.4	Health physics supplies	-	624	-	-	-	-	-	200	824	-	-	-	-	-	660	-	-	-	-	-	212	872
4c.4.5	Heavy equipment rental	-	1,503	-	-	-	-	-	290	1,793	-	-	-	-	-	1,590	-	-	-	-	-	307	1,897
Period 4c Period-Dependent Costs (continued)																							
4c.4.6	Disposal of DAW generated	-	-	1	1	-	134	-	43	179	533	-	-	-	-	-	1	1	-	155	-	46	203
4c.4.7	Plant energy budget	-	-	-	-	-	-	97	19	115	-	-	-	-	-	-	-	-	-	-	102	20	122
4c.4.8	NRC Fees	-	-	-	-	-	-	658	85	743	-	-	-	-	-	-	-	-	-	-	696	89	786
4c.4.9	Emergency Planning Fees	-	-	-	-	-	-	101	13	114	-	-	-	-	-	-	-	-	-	-	107	14	120
4c.4.10	Environmental / Engineering Support	-	-	-	-	-	-	2,648	510	3,159	-	-	-	-	-	-	-	-	-	-	2,802	540	3,342
4c.4.11	Radwaste Processing Equipment/Services	-	-	-	-	-	-	375	72	447	-	-	-	-	-	-	-	-	-	-	397	76	473
4c.4.12	ISFSI Operating Costs	-	-	-	-	-	-	85	16	101	-	-	-	-	-	-	-	-	-	-	90	17	107
4c.4.13	Security Staff Cost	-	-	-	-	-	-	3,591	692	4,283	-	-	-	-	-	-	-	-	-	-	3,799	732	4,531
4c.4.14	DOC Staff Cost	-	-	-	-	-	-	9,559	1,843	11,402	-	-	-	-	-	-	-	-	-	-	10,112	1,949	12,061
4c.4.15	Utility Staff Cost	-	-	-	-	-	-	6,662	1,284	7,946	-	-	-	-	-	-	-	-	-	-	7,047	1,358	8,405
4c.4	Subtotal Period 4c Period-Dependent Costs	58	2,127	1	1	-	134	23,848	5,096	31,265	533	-	-	-	62	2,250	1	1	-	155	25,226	5,390	33,085
4c.0	TOTAL PERIOD 4c COST	252	13,590	2,247	3,707	543	31,279	25,274	20,290	97,181	254,980	-	-	-	267	14,375	2,377	4,283	627	36,146	26,734	21,463	106,272
PERIOD 4d - Building Demolition, Yard Work, Soil Remediation																							
Demolition of Site Buildings																							
4d.1.1	Contaminated Equipment Storage	-	7	10	42	-	174	-	44	278	2,842	-	-	-	-	8	11	48	-	201	-	47	315
4d.1.2	Gas Stack	-	33	82	331	-	1,381	-	347	2,175	22,563	-	-	-	-	35	87	383	-	1,596	-	367	2,468
4d.1.3	Hot Machine Shop & Calibration	-	20	24	95	-	394	-	101	634	6,445	-	-	-	-	22	25	109	-	456	-	107	719
4d.1.4	New Off Gas Vault	-	80	189	759	-	3,163	-	796	4,987	51,687	-	-	-	-	85	200	877	-	3,655	-	842	5,659
4d.1.5	Radwaste Treatment	-	145	149	597	-	2,490	-	642	4,023	40,680	-	-	-	-	153	157	690	-	2,877	-	679	4,557
4d.1.6	Refueling	-	1,099	310	1,247	-	5,196	-	1,494	9,346	84,907	-	-	-	-	1,162	328	1,441	-	6,005	-	1,580	10,516
4d.1.7	Solid Waste Vault	-	4	6	23	-	96	-	24	153	1,572	-	-	-	-	4	6	27	-	111	-	26	174
4d.1.8	Turbine	-	243	389	1,565	-	6,522	-	1,656	10,375	106,576	-	-	-	-	257	412	1,809	-	7,537	-	1,751	11,766
4d.1.9	Yard Structures	-	57	36	143	-	598	-	158	992	9,765	-	-	-	-	60	38	166	-	691	-	168	1,122
4d.1	Totals	-	1,687	1,195	4,803	-	20,015	-	5,262	32,962	327,036	-	-	-	-	1,785	1,264	5,550	-	23,129	-	5,566	37,294
Period 4d Additional Costs																							
4d.2.1	Backfill of Structures and Site	-	1,460	-	-	-	-	-	281	1,741	-	-	-	-	-	1,544	-	-	-	-	-	298	1,842
4d.2	Subtotal Period 4c Additional Costs	-	1,460	-	-	-	-	-	281	1,741	-	-	-	-	-	1,544	-	-	-	-	-	298	1,842
Period 4d Collateral Costs																							
4d.3.1	Small Tool Allowance	-	9	-	-	-	-	-	2	11													
	Subtotal Period 4d Collateral Costs	-	9	-	-	-	-	-	2	11	-	-	-	-	-	9	-	-	-	-	-	2	11
Period 4d Period-Dependent Costs																							
4d.4.1	Insurance	-	-	-	-	-	-	138	18	155	-	-	-	-	-	-	-	-	-	-	145	19	164
4d.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4d.4.3	Health physics supplies	-	441	-	-	-	-	-	142	582	-	-	-	-	-	466	-	-	-	-	-	150	616
4d.4.4	Heavy equipment rental	-	925	-	-	-	-	-	178	1,104	-	-	-	-	-	979	-	-	-	-	-	189	1,167
4d.4.5	Disposal of DAW generated	-	-	1	0	-	98	-	32	131	390	-	-	-	-	-	1	0	-	113	-	34	149
4d.4.6	Plant energy budget	-	-	-	-	-	-	150	29	179	-	-	-	-	-	-	-	-	-	-	159	31	189
4d.4.7	NRC Fees	-	-	-	-	-	-	350	45	395	-	-	-	-	-	-	-	-	-	-	370	48	418
4d.4.8	Emergency Planning Fees	-	-	-	-	-	-	194	25	218	-	-	-	-	-	-	-	-	-	-	205	26	231
4d.4.9	Environmental / Engineering Support	-	-	-	-	-	-	3,137	605	3,742	-	-	-	-	-	-	-	-	-	-	3,319	640	3,958
4d.4.10	Radwaste Processing Equipment/Services	-	-	-	-	-	-	719	139	858	-	-	-	-	-	-	-	-	-	-	761	147	908
4d.4.11	ISFSI Operating Costs	-	-	-	-	-	-	163	31	194	-	-	-	-	-	-	-	-	-	-	172	33	205
4d.4.12	Security Staff Cost	-	-	-	-	-	-	6,079	1,172	7,251	-	-	-	-	-	-	-	-	-	-	6,430	1,239	7,670
4d.4.13	DOC Staff Cost	-	-	-	-	-	-	14,518	2,798	17,316	-	-	-	-	-	-	-	-	-	-	15,357	2,960	18,317
4d.4.14	Utility Staff Cost	-	-	-	-	-	-	10,603	2,044	12,647	-	-	-	-	-	-	-	-	-	-	11,216	2,162	13,377
	Subtotal Period 4d Period-Dependent Costs	-	1,366	1	0	-	98	36,051	7,257	44,773	390	-	-	-	-	1,445	1	0	-	113	38,134	7,676	47,369
4d.0	TOTAL PERIOD 4d COST	-	4,522	1,196	4,803	-	20,113	36,051	12,802	79,486	327,426	-	-	-	-	4,783	1,265	5,551	-	23,242	38,134	13,542	86,516

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
PERIOD 4e - License Termination																							
Period 4e Direct Decommissioning Activities																							
4e.1.1	ORISE confirmatory survey	-	-	-	-	-	-	151	29	180	-	-	-	-	-	-	-	-	-	-	160	31	190
4e.1.2	Terminate license	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4e.1	Subtotal Period 4e Activity Costs	-	-	-	-	-	-	151	29	180	-	-	-	-	-	-	-	-	-	-	160	31	190
Period 4e Additional Costs																							
4e.2.1	License Termination Survey (sample analysis & equipment)		-	-	-	-	-	725	279	1,004	-	-	-	-	-	-	-	-	-	-	767	296	1,063
4e.2	Subtotal Period 4e Additional Costs		-	-	-	-	-	725	279	1,004	-	-	-	-	-	-	-	-	-	-	767	296	1,063
Period 4e Collateral Costs																							
4e.3.1	DOC staff relocation expenses	-	-	-	-	-	-	1,436	277	1,713	-	-	-	-	-	-	-	-	-	-	1,519	293	1,812
4e.3	Subtotal Period 4e Collateral Costs	-	-	-	-	-	-	1,436	277	1,713	-	-	-	-	-	-	-	-	-	-	1,519	293	1,812
Period 4e Period-Dependent Costs																							
4e.4.1	Insurance	-	-	-	-	-	-	24	3	27	-	-	-	-	-	-	-	-	-	-	25	3	29
4e.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4e.4.3	Health physics supplies	-	192	-	-	-	-	-	62	254	-	-	-	-	-	203	-	-	-	-	-	65	269
4e.4.4	Disposal of DAW generated	-	-	0	0	-	38	-	12	51	152	-	-	-	-	-	0	0	-	44	-	13	58
4e.4.5	Plant energy budget	-	-	-	-	-	-	16	3	19	-	-	-	-	-	-	-	-	-	-	17	3	20
4e.4.6	NRC Fees	-	-	-	-	-	-	236	30	266	-	-	-	-	-	-	-	-	-	-	250	32	282
4e.4.7	Emergency Planning Fees	-	-	-	-	-	-	34	4	38	-	-	-	-	-	-	-	-	-	-	36	5	40
4e.4.8	Environmental / Engineering Support	-	-	-	-	-	-	443	85	528	-	-	-	-	-	-	-	-	-	-	468	90	559
4e.4.9	ISFSI Operating Costs	-	-	-	-	-	-	28	5	34	-	-	-	-	-	-	-	-	-	-	30	6	36
4e.4.10	Security Staff Cost	-	-	-	-	-	-	948	183	1,131	-	-	-	-	-	-	-	-	-	-	1,003	193	1,196
4e.4.11	DOC Staff Cost	-	-	-	-	-	-	2,128	410	2,538	-	-	-	-	-	-	-	-	-	-	2,251	434	2,685
4e.4.12	Utility Staff Cost	-	-	-	-	-	-	1,457	281	1,737	-	-	-	-	-	-	-	-	-	-	1,541	297	1,838
4e.4	Subtotal Period 4e Period-Dependent Costs	-	192	0	0	-	38	5,314	1,080	6,624	152	-	-	-	-	203	0	0	-	44	5,621	1,142	7,011
4e.0	TOTAL PERIOD 4e COST	-	192	0	0	-	38	7,626	1,665	9,522	152	-	-	-	-	203	0	0	-	44	8,067	1,761	10,076
PERIOD 4 TOTALS		1,246	40,119	7,731	9,618	566	74,641	156,788	74,487	365,195	654,879	2,699	470	-	1,318	42,437	8,178	11,114	654	86,255	165,847	78,790	394,594
PERIOD 5b - Site Restoration																							
Period 5b Direct Decommissioning Activities																							
Site Closeout Activities																							
5b.1.1	Grade & landscape site	-	41	-	-	-	-	-	13	55	-	-	-	-	-	44	-	-	-	-	-	14	58
5b.1.2	Final report to NRC	-	-	-	-	-	-	195	38	233	-	-	-	-	-	-	-	-	-	-	206	40	246
5b.1	Subtotal Period 5b Activity Costs	-	41	-	-	-	-	195	51	287	-	-	-	-	-	44	-	-	-	-	206	54	304
Period 5b Additional Costs																							
5b.2.1	Disposal of Asphalt Roadways	-	-	-	-	-	-	63	12	75					-	-	-	-	-	-	66	13	79
5b.2.2	Disposal of Legacy Class B & C Waste	-	-	-	148	-	1,400	-	478	2,026	-	384	96	-	-	-	-	171	-	1,618	-	506	2,294
5b.2.3	*Disposal of Intermodal Containers*	-	-	-	-	-	-	975	188	1,163					-	-	-	-	-	-	1,031	199	1,230
5b.2	Subtotal Period 5b Additional Costs	-	-	-	148	-	1,400	1,038	678	3,264	-	384	96	-	-	-	-	171	-	1,618	1,098	717	3,604
Period 5b Collateral Costs																							
5b.3.1	Small tool allowance	-	0	-	-	-	-	-	0	0	-	-	-	-	-	0	-	-	-	-	-	0	0
5b.3	Subtotal Period 5b Collateral Costs	-	0	-	-	-	-	-	0	0	-	-	-	-	-	0	-	-	-	-	-	0	0
Period 5b Period-Dependent Costs																							
5b.4.1	Insurance	-	-	-	-	-	-	36	5	40	-	-	-	-	-	-	-	-	-	-	38	5	43
5b.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5b.4.3	Plant energy budget	-	-	-	-	-	-	12	2	14	-	-	-	-	-	-	-	-	-	-	13	2	15
5b.4.4	NRC ISFSI Fees	-	-	-	-	-	-	98	13	111	-	-	-	-	-	-	-	-	-	-	104	13	117
5b.4.5	Emergency Planning Fees	-	-	-	-	-	-	50	6	57	-	-	-	-	-	-	-	-	-	-	53	7	60
5b.4.6	ISFSI Operating Costs	-	-	-	-	-	-	42	8	50	-	-	-	-	-	-	-	-	-	-	45	9	53
5b.4.7	Security Staff Cost	-	-	-	-	-	-	1,422	274	1,696	-	-	-	-	-	-	-	-	-	-	1,504	290	1,794

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
5b.4.8	DOC Staff Cost	-	-	-	-	-	-	127	24	152	-	-	-	-	-	-	-	-	-	-	134	26	160
Period 5b Period-Dependent Costs (continued)															-	-	-	-	-	-	-	-	-
5b.4.9	Utility Staff Cost	-	-	-	-	-	-	428	83	511	-	-	-	-	-	-	-	-	-	-	453	87	540
5b.4	Subtotal Period 5b Period-Dependent Costs	-	-	-	-	-	-	2,215	415	2,631	-	-	-	-	-	-	-	-	-	-	2,343	439	2,783
5b.0	TOTAL PERIOD 5b COST	-	41	-	148	-	1,400	3,448	1,144	6,182	-	384	96	-	-	44	-	171	-	1,618	3,648	1,210	6,690
PERIOD 5c - Fuel Storage Operations																							
Period 5c Period-Dependent Costs																							
5c.4.1	Insurance	-	-	-	-	-	-	251	32	284	-	-	-	-	-	-	-	-	-	-	266	34	300
5c.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5c.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5c.4.4	NRC ISFSI Fees	-	-	-	-	-	-	709	91	801	-	-	-	-	-	-	-	-	-	-	750	96	847
5c.4.5	Emergency Planning Fees	-	-	-	-	-	-	354	45	399	-	-	-	-	-	-	-	-	-	-	374	48	422
5c.4.6	ISFSI Operating Costs	-	-	-	-	-	-	297	57	355	-	-	-	-	-	-	-	-	-	-	315	61	375
5c.4.7	Security Staff Cost	-	-	-	-	-	-	9,998	1,927	11,925	-	-	-	-	-	-	-	-	-	-	10,576	2,039	12,615
5c.4.8	DOC Staff Cost	-	-	-	-	-	-	198	38	236	-	-	-	-	-	-	-	-	-	-	210	40	250
5c.4.9	Utility Staff Cost	-	-	-	-	-	-	1,087	210	1,297	-	-	-	-	-	-	-	-	-	-	1,150	222	1,372
5c.4	Subtotal Period 5c Period-Dependent Costs	-	-	-	-	-	-	12,896	2,401	15,297	-	-	-	-	-	-	-	-	-	-	13,641	2,540	16,181
5c.0	TOTAL PERIOD 5c COST	-	-	-	-	-	-	12,896	2,401	15,297	-	-	-	-									
PERIOD 5d - Spent Fuel and GTCC shipping																							
Period 5d Direct Decommissioning Activities																							
Nuclear Steam Supply System Removal																							
5d.1.1.1	Vessel & Internals GTCC Disposal	-	-	95	-	-	346	-	79	519	-	-	-	17	-	-	100	-	-	399	-	83	583
5d.1	Subtotal Period 5d Activity Costs	-	-	95	-	-	346	-	79	519	-	-	-	17	-	-	100	-	-	399	-	83	583
Period 5d Collateral Costs																							
5d.3.1	Transfer Spent Fuel to DOE	-	-	-	-	-	-	462	89	551	-	-	-	-									
5d.3.1	Subtotal Period 5d Collateral Costs	-	-	-	-	-	-	462	89	551	-	-	-	-									
Period 5d Period-Dependent Costs																							
5d.4.1	Insurance	-	-	-	-	-	-	36	7	43	-	-	-	-	-	-	-	-	-	-	38	7	45
5d.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5d.4.3	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5d.4.4	NRC ISFSI Fees	-	-	-	-	-	-	99	13	111	-	-	-	-	-	-	-	-	-	-	104	13	118
5d.4.5	Emergency Planning Fees	-	-	-	-	-	-	51	7	57	-	-	-	-	-	-	-	-	-	-	54	7	60
5d.4.6	ISFSI Operating Costs	-	-	-	-	-	-	43	8	51	-	-	-	-	-	-	-	-	-	-	45	9	54
5d.4.7	Security Staff Cost	-	-	-	-	-	-	1,430	276	1,705	-	-	-	-	-	-	-	-	-	-	1,512	291	1,804
5d.4.8	DOC Staff Cost	-	-	-	-	-	-	28	5	34	-	-	-	-	-	-	-	-	-	-	30	6	36
5d.4.9	Utility Staff Cost	-	-	-	-	-	-	156	30	186	-	-	-	-	-	-	-	-	-	-	165	32	196
5d.4.	Subtotal Period 5d Period-Dependent Costs	-	-	-	-	-	-	1,841	345	2,187	-	-	-	-	-	-	-	-	-	-	1,948	365	2,313
5d.0	TOTAL PERIOD 5d COST	-	-	95	-	-	346	2,303	513	3,257	-	-	-	17	-	-	100	-	-	399	2,436	543	3,479
PERIOD 5e - ISFSI Decontamination																							
Period 5e Additional Costs																							
5e.2.1	ISFSI Decontamination	-	5	0	2	-	10	1,169	231	1,417	116	-	-	-	-	6	0	2	-	12	1,236	244	1,500
5e.2	Subtotal Period 5e Additional Costs	-	5	0	2	-	10	1,169	231	1,417	116	-	-	-	-	6	0	2	-	12	1,236	244	1,500
Period 5e Collateral Costs																							
5e.3.1	Small tool allowance	-	0	-	-	-	-	-	0	0	-	-	-	-	-	0	-	-	-	-	-	0	0
5e.3	Subtotal Period 5e Collateral Costs	-	0	-	-	-	-	-	0	0	-	-	-	-	-	0	-	-	-	-	-	0	0

Humboldt Bay Power Plant, Unit 3
AREA-BY-AREA ESTIMATE

		Thousands of 2008 Dollars													Thousands of 2010 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	Class A Cu. Feet	Class B Cu. Feet	Class C Cu. Feet	GTCC Cu. Feet	Decon Cost	Removal Cost	Packaging Costs	Transport Costs	Off-Site Processing Costs	LLRW Disposal Costs	Other Costs	Total Contingency	Total Costs
Period 5e Period-Dependent Costs																							
5e.4.1	Insurance	-	-	-	-	-	-	23	3	26	-	-	-	-	-	-	-	-	-	-	25	3	28
5e.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5e.4.3	Heavy equipment rental	-	118	-	-	-	-	-	23	141	-	-	-	-	-	125	-	-	-	-	-	24	149
5e.4.4	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5e.4.5	Security Staff Cost	-	-	-	-	-	-	877	169	1,046	-	-	-	-	-	-	-	-	-	-	928	179	1,106
5e.4.6	DOC Staff Cost	-	-	-	-	-	-	17	3	21	-	-	-	-	-	-	-	-	-	-	18	4	22
5e.4.7	Utility Staff Cost	-	-	-	-	-	-	95	18	114	-	-	-	-	-	-	-	-	-	-	101	19	120
5e.4.	Subtotal Period 5e Period-Dependent Costs	-	118	-	-	-	-	1,013	216	1,347	-	-	-	-	-	125	-	-	-	-	1,071	229	1,425
5e.0	TOTAL PERIOD 5e COST	-	124	0	2	-	10	2,181	447	2,764	116	-	-	-	-	131	0	2	-	12	2,307	473	2,925
PERIOD 5f - ISFSI Site Restoration																							
Period 5f Additional Costs																							
5f.2.1	ISFSI Demolition	-	270	-	-	-	-	48	61	380	-	-	-	-	-	286	-	-	-	-	51	65	402
5f.2	Subtotal Period 5f Additional Costs	-	270	-	-	-	-	48	61	380	-	-	-	-	-	286	-	-	-	-	51	65	402
Period 5f Collateral Costs																							
5f.3.1	Small tool allowance	-	3	-	-	-	-	-	1	3	-	-	-	-	-	3	-	-	-	-	-	1	3
5f.3	Subtotal Period 5f Collateral Costs	-	3	-	-	-	-	-	1	3	-	-	-	-	-	3	-	-	-	-	-	1	3
Period 5f Period-Dependent Costs																							
5f.4.1	Insurance	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5f.4.2	Property taxes	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5f.4.3	Heavy equipment rental	-	61	-	-	-	-	-	12	73	-	-	-	-	-	65	-	-	-	-	-	12	77
5f.4.4	Plant energy budget	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5f.4.5	Security Staff Cost	-	-	-	-	-	-	492	95	587	-	-	-	-	-	-	-	-	-	-	521	100	621
5f.4.6	DOC Staff Cost	-	-	-	-	-	-	10	2	12	-	-	-	-	-	-	-	-	-	-	10	2	12
5f.4.7	Utility Staff Cost	-	-	-	-	-	-	54	10	64	-	-	-	-	-	-	-	-	-	-	57	11	68
5f.4	Subtotal Period 5f Period-Dependent Costs	-	61	-	-	-	-	555	119	735	-	-	-	-	-	65	-	-	-	-	588	126	778
5f.0	TOTAL PERIOD 5f COST	-	334	-	-	-	-	604	181	1,119	-	-	-	-	-	353	-	-	-	-	639	191	1,183
PERIOD 5 TOTALS		-	499	95	149	-	1,756	21,432	4,686	28,618	116	384	96	17	-	528	101	172	-	2,029	22,670	4,957	30,458
TOTAL COST TO DECOMMISSION		2,214	41,837	7,830	9,774	566	76,487	277,452	83,598	499,759	655,237	3,083	566	17	2,342	44,255	8,282	11,295	654	88,388	293,483	88,428	537,128

Humboldt Bay Power Plant Unit 3

Decommissioning Cash Flow

(Estimated in 2010 Dollars)

(1 Page)

Humboldt Bay Power Plant Unit 3
Decommissioning Cash Flow (Note 1)
(Estimated in 2010 Dollars)

Year	NRC Scope (Radiological)	Non-NRC Scope (Non-Radiological)	ISFSI Engr/License Construction Operation (Note 1)	Total	Cummulative Decommission Estimate	Trust Account Funding (Note 2)
1996	$1,678,452			$1,678,452	$1,678,452	
1997	$8,663,216			$8,663,216	$10,341,669	
1998	$5,573,757		$344,408	$5,918,165	$16,259,834	
1999	$723,490		$2,281,454	$3,004,944	$19,264,778	
2000	$85,241		$2,736,091	$2,821,331	$22,086,109	
2001	$89,543		$398,012	$487,555	$22,573,664	
2002	$994,127		$113,704	$1,107,831	$23,681,495	
2003	$494,838		$2,539,476	$3,034,313	$26,715,809	
2004	$491,070		$1,444,628	$1,935,698	$28,651,506	
2005	$161,506		$1,671,769	$1,833,274	$30,484,781	
2006	$1,073,612		$3,546,617	$4,620,229	$35,105,009	
2007	$4,474,247		$9,240,172	$13,714,418	$48,819,428	
2008	$12,590,383		$28,485,988	$41,076,371	$89,895,799	
2009	$32,901,391		$3,179,956	$36,081,347	$125,977,145	$125,679,704
2010	$67,823,000	$921,000	$4,825,000	$73,569,000	$199,546,145	
2011	$69,596,000	$921,000	$4,465,000	$74,982,000	$274,528,145	
2012	$60,244,928		$4,633,000	$64,877,928	$339,406,073	
2013	$77,278,927		$4,633,000	$81,911,927	$421,318,000	$372,334,718
2014	$40,495,000		$4,633,000	$45,128,000	$466,446,000	
2015	$35,515,000		$4,633,000	$40,148,000	$506,594,000	$498,014,422
2016	$4,283,000	$137,000	$4,633,000	$9,053,000	$515,647,000	
2017	$0		$4,633,000	$4,633,000	$520,280,000	
2018	$0		$4,633,000	$4,633,000	$524,913,000	
2019	$0		$4,633,000	$4,633,000	$529,546,000	
2020	$3,470,000		$4,112,000	$7,582,000	$537,128,000	
TOTAL	$428,700,727	$1,979,000	$106,448,273	$537,128,000		

Notes:

1) Cash Flow is based on construction of ISFSI and Fuel removed from HBPP in 2020 (Assumes DOE Used Fuel Repository opens 2020 allowing HBPP Fuel to be shipped during 2020)
2) Trust Account Value of $372.3 million is Expense Equivalent Liquidation Value (Includes Tax Break) Market Value of Trust as of 12/09 was $327.0 million, actual expended as of 12/09 was $125.7 million
3) Assumes CPUC recommendation of 25% contingency in Decision 07-01-003
4) Assumes PG&E recommedation of $10.044 million annual revenue for HBPP begining 2010 for

Decommissioning Cost Study

for the

Humboldt Bay Power Plant Unit 3

2010 SAFSTOR

Document P01-1604-002, Rev. 0

March 2009