Case No. GNR-E-02-1
Revised Exhibit 305
Witness: Mark T. Widmer

BEFORE THE IDAHO PUBLIC UTILITIES COMMISSION

PACIFICORP

Exhibit Accompanying Rebuttal Testimony of Mark T. Widmer

Avoided Cost Calculation Model
02-Aug-02
Fueled

August, 2002

AVOIDED COST CALCULATION MODEL
15-Aug-02
FUELED

DATA TYPE	DATA SOURCE	PCP DATA
FIRST DEFICIT YEAR:	Long Run L&R	2008
SURPLUS ENERGY COST (mil/kWh):	June 2002 Official Forecast	33.54
SURPLUS COST BASE YEAR:	June 2002 Official Forecast	2002
"SAR" PLANT LIFE (YEARS):	No Change	30
"SAR" PLANT COST ($/kW):	NWPPC/IPUC Staff	$665
BASE YEAR OF "SAR" COST:	NWPPC/IPUC Staff	2000
"SAR" CAPACITY FACTOR (%):	No Change	92%
UTLTY WT'D COST OF CAPITAL (%):	Utah Order 01-035-01	8.87%
RATEPAYER DISCOUNT RATE (%):	Utah Order 01-035-01	8.87%
"SAR" FIXED O&M ($/kW):	NWPPC adj.	$9.32
"SAR" VARIABLE O&M (mil/kWh):	NWPPC adj.	2.95
CURRENT YEAR FUEL COST (mil/kWh):	IPUC Staff/NWPPC	22.43
BASE YEAR, O&M EXPENSES:	NWPPC/IPUC Staff	2000
ESCALATION RATE; "SAR" (%):	IPUC Staff	2.10%
ESCALATION RATE; SURPLUS (%):	June 2002 Official Forecast	4.80%
ESCALATION RATE; O&M (%):	IPUC Staff	2.70%
ESCALATION RATE; FUEL (%):	NWPPC/IPUC Staff	3.20%
ADJUSTABLE PORTION (mil/kWh):	Calculated	22.43
CAPITAL CARRYING CHARGE (%):	Financial Analysis - Or Order	13.260%
LEVEL CARRYING COST (mil/kWh):	Calculated	12.65
"TILTING" RATE (%):	IPUC Staff	2.10%
TYPE OF RATES:		FUELED
CURRENT YEAR:		2002

FUELED

SURPLUS COST (m/kWh)	
YEAR	VALUE
2002	33.54
2003	35.15
2004	36.83
2005	38.60
2006	40.45
2007	42.40
2008	N/A
2009	N/A
2010	N/A
2011	N/A
2012	N/A
2013	N/A
2014	N/A
2015	N/A
2016	N/A
2017	N/A
2018	N/A
2019	N/A
2020	N/A
2021	N/A
2022	N/A
2023	N/A
2024	N/A
2025	N/A
2026	N/A
2027	N/A
2028	N/A
2029	N/A
2030	N/A
2031	N/A
2032	N/A
2033	N/A
2034	N/A
2035	N/A
2036	N/A

ANNUAL CARRYING CHARGES Plant on-line in the year shown		
YEAR	CARRYING CHARGE	TILTED CAPITAL
2000	10.94	N/A
2001	11.17	N/A
2002	11.41	N/A
2003	11.65	N/A
2004	11.89	N/A
2005	12.14	N/A
2006	12.39	N/A
2007	12.65	N/A
2008	12.92	10.42
2009	13.19	10.64
2010	13.47	10.87
2011	13.75	11.09
2012	14.04	11.33
2013	14.34	11.56
2014	14.64	11.81
2015	14.94	12.06
2016	15.26	12.31
2017	15.58	12.57
2018	15.91	12.83
2019	16.24	13.10
2020	16.58	13.38
2021	16.93	13.66
2022	17.28	13.94
2023	17.65	14.24
2024	18.02	14.53
2025	18.40	14.84
2026	18.78	15.15
2027	19.18	15.47
2028	19.58	15.79
2029	19.99	16.13
2030	20.41	16.46
2031	20.84	16.81
2032	21.28	17.16
2033	21.72	17.52
2034	22.18	17.89

ANNUAL OPERATION & MAINTENANCE COSTS (m/kWh)				
YEAR	FIXED	VARIABLE	TOTAL	FUEL
2000	1.16	2.95	4.11	N/A
2001	1.19	3.03	4.22	N/A
2002	1.22	3.11	4.33	22.43
2003	1.25	3.20	4.45	23.15
2004	1.29	3.28	4.57	23.89
2005	1.32	3.37	4.69	24.65
2006	1.36	3.46	4.82	25.44
2007	1.39	3.55	4.95	26.26
2008	1.43	3.65	5.08	27.10
2009	1.47	3.75	5.22	27.96
2010	1.51	3.85	5.36	28.86
2011	1.55	3.95	5.50	29.78
2012	1.59	4.06	5.65	30.73
2013	1.64	4.17	5.81	31.72
2014	1.68	4.28	5.96	32.73
2015	1.72	4.40	6.12	33.78
2016	1.77	4.52	6.29	34.86
2017	1.82	4.64	6.46	35.98
2018	1.87	4.77	6.63	37.13
2019	1.92	4.89	6.81	38.32
2020	1.97	5.03	7.00	39.54
2021	2.02	5.16	7.19	40.81
2022	2.08	5.30	7.38	42.11
2023	2.13	5.44	7.58	43.46
2024	2.19	5.59	7.78	44.85
2025	2.25	5.74	7.99	46.29
2026	2.31	5.90	8.21	47.77
2027	2.37	6.06	8.43	49.30
2028	2.44	6.22	8.66	50.87
2029	2.50	6.39	8.89	52.50
2030	2.57	6.56	9.13	54.18
2031	2.64	6.74	9.38	55.92
2032	2.71	6.92	9.63	57.71
2033	2.79	7.11	9.89	59.55
2034	2.86	7.30	10.16	61.46

NON-ADJUSTABLE PORTION TOTAL COSTS (Surplus rates before 1st deficit year)					
YEAR	TILTED CAPITAL	TOTAL O&M	FUEL	SURPLUS	TOTAL
2002	N/A	N/A	N/A	33.54	33.54
2003	N/A	N/A	N/A	35.15	35.15
2004	N/A	N/A	N/A	36.83	36.83
2005	N/A	N/A	N/A	38.60	38.60
2006	N/A	N/A	N/A	40.45	40.45
2007	N/A	N/A	N/A	42.40	42.40
2008	10.42	5.08	0.00	N/A	15.50
2009	10.64	5.22	0.00	N/A	15.86
2010	10.87	5.36	0.00	N/A	16.23
2011	11.09	5.50	0.00	N/A	16.60
2012	11.33	5.65	0.00	N/A	16.98
2013	11.56	5.81	0.00	N/A	17.37
2014	11.81	5.96	0.00	N/A	17.77
2015	12.06	6.12	0.00	N/A	18.18
2016	12.31	6.29	0.00	N/A	18.60
2017	12.57	6.46	0.00	N/A	19.03
2018	12.83	6.63	0.00	N/A	19.46
2019	13.10	6.81	0.00	N/A	19.91
2020	13.38	7.00	0.00	N/A	20.37
2021	13.66	7.19	0.00	N/A	20.84
2022	13.94	7.38	0.00	N/A	21.32
2023	14.24	7.58	0.00	N/A	21.81
2024	14.53	7.78	0.00	N/A	22.32
2025	14.84	7.99	0.00	N/A	22.83
2026	15.15	8.21	0.00	N/A	23.36
2027	15.47	8.43	0.00	N/A	23.90
2028	15.79	8.66	0.00	N/A	24.45
2029	16.13	8.89	0.00	N/A	25.02
2030	16.46	9.13	0.00	N/A	25.60
2031	16.81	9.38	0.00	N/A	26.19
2032	17.16	9.63	0.00	N/A	26.80
2033	17.52	9.89	0.00	N/A	27.42
2034	17.89	10.16	0.00	N/A	28.05
2035	0.00	0.00	0.00	N/A	0.00
2036	0.00	0.00	0.00	N/A	0.00

FUELED

CONTRACT LENGTH (YEARS)	AVOIDED COST PRESENT VALUES (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	32.14	33.68	35.30	37.00	38.77	40.63
2	30.94	32.43	33.98	35.61	37.32	13.65
3	29.78	31.21	32.71	34.28	12.54	12.83
4	28.67	30.05	31.49	11.52	11.78	12.05
5	27.60	28.92	10.58	10.82	11.07	11.32
6	26.57	9.72	9.94	10.17	10.40	10.64
7	8.92	9.13	9.34	9.55	9.77	10.00
8	8.39	8.58	8.78	8.98	9.18	9.39
9	7.88	8.06	8.25	8.44	8.63	8.83
10	7.40	7.57	7.75	7.93	8.11	8.30
11	6.96	7.12	7.28	7.45	7.62	7.79
12	6.54	6.69	6.84	7.00	7.16	7.32
13	6.14	6.28	6.43	6.58	6.73	6.88
14	5.77	5.90	6.04	6.18	6.32	6.47
15	5.42	5.55	5.68	5.81	5.94	6.08
16	5.10	5.21	5.33	5.46	5.58	5.71
17	4.79	4.90	5.01	5.13	5.25	5.37
18	4.50	4.60	4.71	4.82	4.93	5.04
19	4.23	4.33	4.43	4.53	4.63	4.74
20	3.97	4.07	4.16	4.26	4.35	4.45
21	3.73	3.82	3.91	4.00	4.09	4.19
22	3.51	3.59	3.67	3.76	3.84	3.93
23	3.30	3.37	3.45	3.53	3.61	3.70
24	3.10	3.17	3.24	3.32	3.40	3.47
25	2.91	2.98	3.05	3.12	3.19	3.26
26	2.74	2.80	2.86	2.93	3.00	3.07
27	2.57	2.63	2.69	2.75	2.82	2.88
28	2.42	2.47	2.53	2.59	2.65	2.71
29	2.27	2.32	2.38	2.43	2.49	0.00
30	2.13	2.18	2.23	2.29	0.00	0.00
31	2.01	2.05	2.10	0.00	0.00	0.00
32	1.89	1.93	0.00	0.00	0.00	0.00
33	1.77	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00

CONTRACT LENGTH (YEARS)	SUMMED AVOIDED COST PRESENT VALUES (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	32.14	33.68	35.30	37.00	38.77	40.63
2	63.08	66.11	69.28	72.61	76.09	54.28
3	92.86	97.32	101.99	106.89	88.63	67.11
4	121.53	127.37	133.48	118.41	100.41	79.16
5	149.13	156.29	144.06	129.23	111.48	90.48
6	175.70	166.01	154.00	139.39	121.88	101.12
7	184.62	175.14	163.34	148.95	131.65	111.12
8	193.01	183.71	172.11	157.92	140.84	120.51
9	200.89	191.77	180.36	166.36	149.47	129.34
10	208.29	199.35	188.11	174.28	157.57	137.64
11	215.25	206.46	195.39	181.73	165.19	145.43
12	221.78	213.15	202.23	188.73	172.35	152.76
13	227.93	219.44	208.66	195.31	179.08	159.64
14	233.70	225.34	214.70	201.49	185.40	166.11
15	239.12	230.89	220.37	207.29	191.35	172.18
16	244.22	236.10	225.71	212.75	196.93	177.90
17	249.01	241.00	230.72	217.88	202.17	183.26
18	253.51	245.61	235.43	222.70	207.10	188.31
19	257.74	249.93	239.86	227.23	211.74	193.05
20	261.71	254.00	244.01	231.48	216.09	197.50
21	265.44	257.82	247.92	235.48	220.18	201.69
22	268.95	261.41	251.60	239.24	224.03	205.62
23	272.25	264.78	255.05	242.77	227.64	209.32
24	275.35	267.95	258.29	246.09	231.04	212.79
25	278.26	270.93	261.34	249.21	234.23	216.06
26	281.00	273.73	264.21	252.14	237.23	219.13
27	283.57	276.36	266.90	254.89	240.04	222.01
28	285.99	278.84	269.43	257.48	242.69	224.72
29	288.26	281.16	271.81	259.92	245.18	224.72
30	290.40	283.35	274.04	262.20	245.18	224.72
31	292.40	285.40	276.14	262.20	245.18	224.72
32	294.29	287.33	276.14	262.20	245.18	224.72
33	296.06	287.33	276.14	262.20	245.18	224.72
34	296.06	287.33	276.14	262.20	245.18	224.72
35	296.06	287.33	276.14	262.20	245.18	224.72

FUELED

CONTRACT LENGTH (YEARS)	NON-ADJUSTABLE LEVELIZED AVOIDED COSTS (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	33.54	35.15	36.83	38.60	40.45	42.40
2	34.31	35.95	37.68	39.49	41.38	29.52
3	35.08	36.76	38.53	40.38	33.48	25.35
4	35.85	37.57	39.37	34.93	29.62	23.35
5	36.62	38.38	35.38	31.73	27.38	22.22
6	37.39	35.33	32.77	29.67	25.94	21.52
7	35.00	33.20	30.97	28.24	24.96	21.07
8	33.26	31.66	29.66	27.21	24.27	20.77
9	31.94	30.50	28.68	26.45	23.77	20.57
10	30.93	29.60	27.93	25.88	23.40	20.44
11	30.13	28.90	27.35	25.44	23.12	20.36
12	29.49	28.34	26.89	25.09	22.92	20.31
13	28.97	27.90	26.52	24.83	22.77	20.29
14	28.56	27.53	26.23	24.62	22.65	20.30
15	28.21	27.24	26.00	24.46	22.58	20.32
16	27.93	27.00	25.81	24.33	22.52	20.35
17	27.70	26.81	25.67	24.24	22.49	20.39
18	27.51	26.65	25.55	24.17	22.47	20.43
19	27.35	26.52	25.45	24.11	22.47	20.49
20	27.22	26.42	25.38	24.08	22.48	20.54
21	27.12	26.34	25.33	24.06	22.49	20.60
22	27.03	26.27	25.29	24.04	22.52	20.67
23	26.96	26.22	25.26	24.04	22.54	20.73
24	26.91	26.18	25.24	24.05	22.58	20.79
25	26.86	26.16	25.23	24.06	22.61	20.86
26	26.83	26.14	25.23	24.08	22.65	20.92
27	26.81	26.13	25.23	24.10	22.69	20.99
28	26.79	26.12	25.24	24.12	22.74	21.05
29	26.78	26.12	25.25	24.15	22.78	20.88
30	26.78	26.13	25.27	24.18	22.61	20.72
31	26.78	26.14	25.29	24.01	22.45	20.58
32	26.78	26.15	25.13	23.86	22.31	20.45
33	26.79	26.00	24.99	23.73	22.19	20.33
34	26.65	25.86	24.86	23.60	22.07	20.23
35	26.52	25.74	24.74	23.49	21.96	20.13

CONTRACT LENGTH (YEARS)	ADJUSTABLE PLUS NON-ADJUSTABLE COSTS (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	33.54	35.15	36.83	38.60	40.45	42.40
2	34.31	35.95	37.68	39.49	41.38	51.95
3	35.08	36.76	38.53	40.38	55.91	47.78
4	35.85	37.57	39.37	57.36	52.05	45.78
5	36.62	38.38	57.81	54.16	49.81	44.65
6	37.39	57.76	55.20	52.10	48.37	43.95
7	57.43	55.63	53.40	50.67	47.39	43.50
8	55.69	54.09	52.09	49.64	46.70	43.20
9	54.37	52.93	51.11	48.88	46.20	43.00
10	53.36	52.03	50.36	48.31	45.83	42.87
11	52.56	51.33	49.78	47.87	45.55	42.79
12	51.92	50.77	49.32	47.52	45.35	42.74
13	51.40	50.33	48.95	47.26	45.20	42.72
14	50.99	49.96	48.66	47.05	45.08	42.73
15	50.64	49.67	48.43	46.89	45.01	42.75
16	50.36	49.43	48.24	46.76	44.95	42.78
17	50.13	49.24	48.10	46.67	44.92	42.82
18	49.94	49.08	47.98	46.60	44.90	42.86
19	49.78	48.95	47.88	46.54	44.90	42.92
20	49.65	48.85	47.81	46.51	44.91	42.97
21	49.55	48.77	47.76	46.49	44.92	43.03
22	49.46	48.70	47.72	46.47	44.95	43.10
23	49.39	48.65	47.69	46.47	44.97	43.16
24	49.34	48.61	47.67	46.48	45.01	43.22
25	49.29	48.59	47.66	46.49	45.04	43.29
26	49.26	48.57	47.66	46.51	45.08	43.35
27	49.24	48.56	47.66	46.53	45.12	43.42
28	49.22	48.55	47.67	46.55	45.17	43.48
29	49.21	48.55	47.68	46.58	45.21	43.31
30	49.21	48.56	47.70	46.61	45.04	43.15
31	49.21	48.57	47.72	46.44	44.88	43.01
32	49.21	48.58	47.56	46.29	44.74	42.88
33	49.22	48.43	47.42	46.16	44.62	42.76
34	49.08	48.29	47.29	46.03	44.50	42.66
35	48.95	48.17	47.17	45.92	44.39	42.56

NON-LEVELIZED AVOIDED COST RATE (m/kWh) CONTRACT START YEAR	NON-ADJUSTABLE PLUS MOST RECENT ADJUSTABLE
2002	33.54
2003	35.15
2004	36.83
2005	38.60
2006	40.45
2007	42.40
2008	37.93
2009	38.29
2010	38.66
2011	39.03
2012	39.41
2013	39.80
2014	40.20
2015	40.61
2016	41.03
2017	41.46
2018	41.89
2019	42.34
2020	42.80
2021	43.27
2022	43.75
2023	44.24
2024	44.75
2025	45.26
2026	45.79
2027	46.33
2028	46.88
2029	47.45
2030	48.03
2031	48.62
2032	49.23
2033	49.85
2034	50.48
2035	22.43
2036	22.43

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Revised Exhibit 306
Witness: Mark T. Widmer

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PACIFICORP

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02-Aug-02
Non-Fueled

August, 2002

AVOIDED COST CALCULATION MODEL
15-Aug-02
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UTLTY WT'D COST OF CAPITAL (%):	Utah Order 01-035-01	8.87%
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"SAR" VARIABLE O&M (mil/kWh):	NWPPC adj.	2.95
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BASE YEAR, O&M EXPENSES:	NWPPC/IPUC Staff	2000
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ESCALATION RATE; SURPLUS (%):	June 2002 Official Forecast	4.80%
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CAPITAL CARRYING CHARGE (%):	Financial Analysis - Or Order	13.260%
LEVEL CARRYING COST (mil/kWh):	Calculated	12.65
"TILTING" RATE (%):	IPUC Staff	2.10%
TYPE OF RATES:		Non-Fueled
CURRENT YEAR:		2002

Non-Fueled

SURPLUS COST (m/kWh)	
YEAR	VALUE
2002	33.54
2003	35.15
2004	36.83
2005	38.60
2006	40.45
2007	42.40
2008	N/A
2009	N/A
2010	N/A
2011	N/A
2012	N/A
2013	N/A
2014	N/A
2015	N/A
2016	N/A
2017	N/A
2018	N/A
2019	N/A
2020	N/A
2021	N/A
2022	N/A
2023	N/A
2024	N/A
2025	N/A
2026	N/A
2027	N/A
2028	N/A
2029	N/A
2030	N/A
2031	N/A
2032	N/A
2033	N/A
2034	N/A
2035	N/A
2036	N/A

ANNUAL CARRYING CHARGES Plant on-line in the year shown		
YEAR	CARRYING CHARGE	TILTED CAPITAL
2000	10.94	N/A
2001	11.17	N/A
2002	11.41	N/A
2003	11.65	N/A
2004	11.89	N/A
2005	12.14	N/A
2006	12.39	N/A
2007	12.65	N/A
2008	12.92	10.42
2009	13.19	10.64
2010	13.47	10.87
2011	13.75	11.09
2012	14.04	11.33
2013	14.34	11.56
2014	14.64	11.81
2015	14.94	12.06
2016	15.26	12.31
2017	15.58	12.57
2018	15.91	12.83
2019	16.24	13.10
2020	16.58	13.38
2021	16.93	13.66
2022	17.28	13.94
2023	17.65	14.24
2024	18.02	14.53
2025	18.40	14.84
2026	18.78	15.15
2027	19.18	15.47
2028	19.58	15.79
2029	19.99	16.13
2030	20.41	16.46
2031	20.84	16.81
2032	21.28	17.16
2033	21.72	17.52
2034	22.18	17.89

ANNUAL OPERATION & MAINTENANCE COSTS (m/kwh)				
YEAR	FIXED	VARIABLE	TOTAL	FUEL
2000	1.16	2.95	4.11	N/A
2001	1.19	3.03	4.22	N/A
2002	1.22	3.11	4.33	22.43
2003	1.25	3.20	4.45	23.15
2004	1.29	3.28	4.57	23.89
2005	1.32	3.37	4.69	24.65
2006	1.36	3.46	4.82	25.44
2007	1.39	3.55	4.95	26.26
2008	1.43	3.65	5.08	27.10
2009	1.47	3.75	5.22	27.96
2010	1.51	3.85	5.36	28.86
2011	1.55	3.95	5.50	29.78
2012	1.59	4.06	5.65	30.73
2013	1.64	4.17	5.81	31.72
2014	1.68	4.28	5.96	32.73
2015	1.72	4.40	6.12	33.78
2016	1.77	4.52	6.29	34.86
2017	1.82	4.64	6.46	35.98
2018	1.87	4.77	6.63	37.13
2019	1.92	4.89	6.81	38.32
2020	1.97	5.03	7.00	39.54
2021	2.02	5.16	7.19	40.81
2022	2.08	5.30	7.38	42.11
2023	2.13	5.44	7.58	43.46
2024	2.19	5.59	7.78	44.85
2025	2.25	5.74	7.99	46.29
2026	2.31	5.90	8.21	47.77
2027	2.37	6.06	8.43	49.30
2028	2.44	6.22	8.66	50.87
2029	2.50	6.39	8.89	52.50
2030	2.57	6.56	9.13	54.18
2031	2.64	6.74	9.38	55.92
2032	2.71	6.92	9.63	57.71
2033	2.79	7.11	9.89	59.55
2034	2.86	7.30	10.16	61.46

NON-ADJUSTABLE PORTION TOTAL COSTS (Surplus rates before 1st deficit year)					
YEAR	TILTED CAPITAL	TOTAL O&M	FUEL	SURPLUS	TOTAL
2002	N/A	N/A	N/A	33.54	33.54
2003	N/A	N/A	N/A	35.15	35.15
2004	N/A	N/A	N/A	36.83	36.83
2005	N/A	N/A	N/A	38.60	38.60
2006	N/A	N/A	N/A	40.45	40.45
2007	N/A	N/A	N/A	42.40	42.40
2008	10.42	5.08	27.10	N/A	42.60
2009	10.64	5.22	27.96	N/A	43.82
2010	10.87	5.36	28.86	N/A	45.08
2011	11.09	5.50	29.78	N/A	46.38
2012	11.33	5.65	30.73	N/A	47.71
2013	11.56	5.81	31.72	N/A	49.09
2014	11.81	5.96	32.73	N/A	50.50
2015	12.06	6.12	33.78	N/A	51.96
2016	12.31	6.29	34.86	N/A	53.46
2017	12.57	6.46	35.98	N/A	55.00
2018	12.83	6.63	37.13	N/A	56.59
2019	13.10	6.81	38.32	N/A	58.23
2020	13.38	7.00	39.54	N/A	59.91
2021	13.66	7.19	40.81	N/A	61.65
2022	13.94	7.38	42.11	N/A	63.44
2023	14.24	7.58	43.46	N/A	65.28
2024	14.53	7.78	44.85	N/A	67.17
2025	14.84	7.99	46.29	N/A	69.12
2026	15.15	8.21	47.77	N/A	71.13
2027	15.47	8.43	49.30	N/A	73.20
2028	15.79	8.66	50.87	N/A	75.33
2029	16.13	8.89	52.50	N/A	77.52
2030	16.46	9.13	54.18	N/A	79.78
2031	16.81	9.38	55.92	N/A	82.11
2032	17.16	9.63	57.71	N/A	84.50
2033	17.52	9.89	59.55	N/A	86.97
2034	17.89	10.16	61.46	N/A	89.51
2035	0.00	0.00	0.00	N/A	0.00
2036	0.00	0.00	0.00	N/A	0.00

Non-Fueled

CONTRACT LENGTH (YEARS)	AVOIDED COST PRESENT VALUES (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	32.14	33.68	35.30	37.00	38.77	40.63
2	30.94	32.43	33.98	35.61	37.32	37.50
3	29.78	31.21	32.71	34.28	34.45	35.44
4	28.67	30.05	31.49	31.64	32.55	33.48
5	27.60	28.92	29.06	29.90	30.76	31.64
6	26.57	26.69	27.46	28.25	29.06	29.90
7	24.52	25.22	25.95	26.69	27.46	28.25
8	23.17	23.83	24.52	25.23	25.95	26.70
9	21.89	22.52	23.17	23.84	24.52	25.23
10	20.69	21.28	21.90	22.53	23.18	23.84
11	19.55	20.11	20.69	21.29	21.90	22.53
12	18.47	19.01	19.55	20.12	20.70	21.30
13	17.46	17.96	18.48	19.01	19.56	20.13
14	16.50	16.97	17.46	17.97	18.49	19.02
15	15.59	16.04	16.50	16.98	17.47	17.98
16	14.73	15.16	15.60	16.05	16.51	16.99
17	13.92	14.33	14.74	15.17	15.61	16.06
18	13.16	13.54	13.93	14.34	14.75	15.18
19	12.44	12.80	13.17	13.55	13.94	14.35
20	11.75	12.10	12.45	12.81	13.18	13.56
21	11.11	11.43	11.76	12.11	12.46	12.82
22	10.50	10.81	11.12	11.44	11.78	12.12
23	9.93	10.21	10.51	10.82	11.13	11.45
24	9.38	9.65	9.93	10.22	10.52	10.83
25	8.87	9.13	9.39	9.66	9.95	10.24
26	8.38	8.63	8.88	9.14	9.40	9.68
27	7.92	8.15	8.39	8.64	8.89	9.15
28	7.49	7.71	7.93	8.16	8.40	8.65
29	7.08	7.29	7.50	7.72	7.94	0.00
30	6.69	6.89	7.09	7.30	0.00	0.00
31	6.33	6.51	6.70	0.00	0.00	0.00
32	5.98	6.16	0.00	0.00	0.00	0.00
33	5.65	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00

CONTRACT LENGTH (YEARS)	SUMMED AVOIDED COST PRESENT VALUES (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	32.14	33.68	35.30	37.00	38.77	40.63
2	63.08	66.11	69.28	72.61	76.09	78.13
3	92.86	97.32	101.99	106.89	110.54	113.57
4	121.53	127.37	133.48	138.53	143.09	147.05
5	149.13	156.29	162.54	168.43	173.85	178.70
6	175.70	182.99	190.01	196.68	202.91	208.59
7	200.22	208.21	215.95	223.37	230.37	236.85
8	223.39	232.04	240.47	248.60	256.32	263.55
9	245.28	254.57	263.64	272.43	280.85	288.78
10	265.97	275.85	285.54	294.96	304.02	312.62
11	285.52	295.96	306.23	316.25	325.92	335.16
12	303.99	314.97	325.78	336.37	346.62	356.46
13	321.45	332.93	344.26	355.38	366.18	376.58
14	337.94	349.90	361.73	373.35	384.67	395.61
15	353.53	365.94	378.23	390.33	402.15	413.58
16	368.27	381.10	393.83	406.38	418.66	430.58
17	382.19	395.43	408.57	421.55	434.27	446.64
18	395.35	408.97	422.50	435.88	449.02	461.82
19	407.79	421.76	435.67	449.43	462.96	476.17
20	419.54	433.86	448.12	462.24	476.14	489.73
21	430.65	445.29	459.88	474.35	488.60	502.55
22	441.15	456.10	471.00	485.79	500.38	514.67
23	451.08	466.31	481.51	496.60	511.51	526.12
24	460.46	475.96	491.44	506.83	522.03	536.95
25	469.33	485.09	500.84	516.49	531.97	547.18
26	477.71	493.71	509.71	525.63	541.37	556.86
27	485.63	501.87	518.10	534.26	550.26	566.01
28	493.12	509.58	526.04	542.43	558.66	574.66
29	500.20	516.86	533.53	550.14	566.61	574.66
30	506.89	523.75	540.62	557.44	566.61	574.66
31	513.22	530.26	547.32	557.44	566.61	574.66
32	519.20	536.42	547.32	557.44	566.61	574.66
33	524.85	536.42	547.32	557.44	566.61	574.66
34	524.85	536.42	547.32	557.44	566.61	574.66
35	524.85	536.42	547.32	557.44	566.61	574.66

Non-Fueled

CONTRACT LENGTH (YEARS)	NON-ADJUSTABLE LEVELIZED AVOIDED COSTS (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	33.54	35.15	36.83	38.60	40.45	42.40
2	34.31	35.95	37.68	39.49	41.38	42.49
3	35.08	36.76	38.53	40.38	41.76	42.90
4	35.85	37.57	39.37	40.86	42.21	43.38
5	36.62	38.38	39.92	41.36	42.69	43.88
6	37.39	38.94	40.44	41.86	43.18	44.39
7	37.96	39.48	40.94	42.35	43.68	44.91
8	38.49	39.99	41.44	42.84	44.17	45.42
9	39.00	40.48	41.92	43.32	44.66	45.92
10	39.49	40.96	42.40	43.80	45.14	46.42
11	39.96	41.43	42.86	44.27	45.62	46.91
12	40.42	41.88	43.32	44.73	46.09	47.40
13	40.86	42.32	43.76	45.18	46.55	47.87
14	41.29	42.75	44.20	45.62	47.00	48.34
15	41.71	43.18	44.63	46.05	47.45	48.80
16	42.12	43.59	45.04	46.48	47.88	49.25
17	42.52	43.99	45.45	46.89	48.31	49.68
18	42.90	44.38	45.85	47.30	48.72	50.11
19	43.28	44.76	46.23	47.70	49.13	50.53
20	43.64	45.13	46.61	48.08	49.53	50.94
21	43.99	45.49	46.98	48.46	49.91	51.34
22	44.34	45.84	47.34	48.82	50.29	51.73
23	44.67	46.18	47.69	49.18	50.66	52.10
24	45.00	46.51	48.02	49.53	51.01	52.47
25	45.31	46.83	48.35	49.86	51.36	52.83
26	45.62	47.14	48.67	50.19	51.70	53.17
27	45.91	47.45	48.98	50.51	52.02	53.51
28	46.20	47.74	49.28	50.82	52.34	53.84
29	46.47	48.02	49.57	51.11	52.64	53.39
30	46.74	48.30	49.85	51.40	52.25	52.99
31	47.00	48.56	50.12	51.05	51.89	52.63
32	47.25	48.82	49.81	50.73	51.57	52.30
33	47.49	48.54	49.53	50.44	51.27	52.00
34	47.24	48.29	49.27	50.18	51.00	51.73
35	47.02	48.06	49.03	49.94	50.76	51.48

CONTRACT LENGTH (YEARS)	ADJUSTABLE PLUS NON-ADJUSTABLE COSTS (m/kWh) ON-LINE YEAR 2002	2003	2004	2005	2006	2007
1	33.54	35.15	36.83	38.60	40.45	42.40
2	34.31	35.95	37.68	39.49	41.38	42.49
3	35.08	36.76	38.53	40.38	41.76	42.90
4	35.85	37.57	39.37	40.86	42.21	43.38
5	36.62	38.38	39.92	41.36	42.69	43.88
6	37.39	38.94	40.44	41.86	43.18	44.39
7	37.96	39.48	40.94	42.35	43.68	44.91
8	38.49	39.99	41.44	42.84	44.17	45.42
9	39.00	40.48	41.92	43.32	44.66	45.92
10	39.49	40.96	42.40	43.80	45.14	46.42
11	39.96	41.43	42.86	44.27	45.62	46.91
12	40.42	41.88	43.32	44.73	46.09	47.40
13	40.86	42.32	43.76	45.18	46.55	47.87
14	41.29	42.75	44.20	45.62	47.00	48.34
15	41.71	43.18	44.63	46.05	47.45	48.80
16	42.12	43.59	45.04	46.48	47.88	49.25
17	42.52	43.99	45.45	46.89	48.31	49.68
18	42.90	44.38	45.85	47.30	48.72	50.11
19	43.28	44.76	46.23	47.70	49.13	50.53
20	43.64	45.13	46.61	48.08	49.53	50.94
21	43.99	45.49	46.98	48.46	49.91	51.34
22	44.34	45.84	47.34	48.82	50.29	51.73
23	44.67	46.18	47.69	49.18	50.66	52.10
24	45.00	46.51	48.02	49.53	51.01	52.47
25	45.31	46.83	48.35	49.86	51.36	52.83
26	45.62	47.14	48.67	50.19	51.70	53.17
27	45.91	47.45	48.98	50.51	52.02	53.51
28	46.20	47.74	49.28	50.82	52.34	53.84
29	46.47	48.02	49.57	51.11	52.64	53.39
30	46.74	48.30	49.85	51.40	52.25	52.99
31	47.00	48.56	50.12	51.05	51.89	52.63
32	47.25	48.82	49.81	50.73	51.57	52.30
33	47.49	48.54	49.53	50.44	51.27	52.00
34	47.24	48.29	49.27	50.18	51.00	51.73
35	47.02	48.06	49.03	49.94	50.76	51.48

NON-LEVELIZED AVOIDED COST RATE (m/kwh) CONTRACT START YEAR	NON-ADJUSTABLE PLUS MOST RECENT ADJUSTABLE
2002	33.54
2003	35.15
2004	36.83
2005	38.60
2006	40.45
2007	42.40
2008	42.60
2009	43.82
2010	45.08
2011	46.38
2012	47.71
2013	49.09
2014	50.50
2015	51.96
2016	53.46
2017	55.00
2018	56.59
2019	58.23
2020	59.91
2021	61.65
2022	63.44
2023	65.28
2024	67.17
2025	69.12
2026	71.13
2027	73.20
2028	75.33
2029	77.52
2030	79.78
2031	82.11
2032	84.50
2033	86.97
2034	89.51
2035	0.00
2036	0.00