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
09-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 Report/IPUC Staff	$635
BASE YEAR OF "SAR" COST:	NWPPC Report/IPUC Staff	2000
"SAR" CAPACITY FACTOR (%):	No Change	92%
UTLTY WT'D COST OF CAPITAL (%):	Oregon Order 01-787	8.620%
RATEPAYER DISCOUNT RATE (%):	Oregon Order 01-787	8.620%
"SAR" FIXED O&M ($/kW):	NWPPC Report/IPUC Staff	$8.54
"SAR" VARIABLE O&M (mil/kWh):	NWPPC Report/IPUC Staff	2.95
CURRENT YEAR FUEL COST (mil/kWh):	IPUC Staff	22.43
BASE YEAR, O&M EXPENSES:	NWPPC Report/IPUC Staff	2000
ESCALATION RATE; "SAR" (%):	NWPPC Report/IPUC Staff	2.00%
ESCALATION RATE; SURPLUS (%):	June 2002 Official Forecast	4.80%
ESCALATION RATE; O&M (%):	IPUC Staff	2.70%
ESCALATION RATE; FUEL (%):	NWPPC Report	3.20%
ADJUSTABLE PORTION (mil/kWh):	Calculated	22.43
CAPITAL CARRYING CHARGE (%):	Financial Analysis - Or Order	13.260%
LEVEL CARRYING COST (mil/kWh):	Calculated	12.00
"TILTING" RATE (%):	IPUC Staff	2.10%
TYPE OF RATES:		FUELED
CURRENT YEAR:		2002

Case No. GNR-E-02-1
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PacifiCorp
Witness: Mark T. Widmer

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	10.45	N/A
2001	10.66	N/A
2002	10.87	N/A
2003	11.09	N/A
2004	11.31	N/A
2005	11.54	N/A
2006	11.77	N/A
2007	12.00	N/A
2008	12.24	9.86
2009	12.49	10.06
2010	12.74	10.27
2011	12.99	10.49
2012	13.25	10.71
2013	13.52	10.94
2014	13.79	11.17
2015	14.06	11.40
2016	14.34	11.64
2017	14.63	11.88
2018	14.92	12.13
2019	15.22	12.39
2020	15.52	12.65
2021	15.84	12.91
2022	16.15	13.19
2023	16.48	13.46
2024	16.80	13.74
2025	17.14	14.03
2026	17.48	14.33
2027	17.83	14.63
2028	18.19	14.94
2029	18.55	15.25
2030	18.92	15.57
2031	19.30	15.90
2032	19.69	16.23
2033	20.08	16.57
2034	20.48	16.92

ANNUAL OPERATION & MAINTENANCE COSTS (m/kWh)				
YEAR	FIXED	VARIABLE	TOTAL	FUEL
2000	1.06	2.95	4.01	N/A
2001	1.09	3.03	4.12	N/A
2002	1.12	3.11	4.23	22.43
2003	1.15	3.20	4.34	23.15
2004	1.18	3.28	4.46	23.89
2005	1.21	3.37	4.58	24.65
2006	1.24	3.46	4.70	25.44
2007	1.28	3.55	4.83	26.26
2008	1.31	3.65	4.96	27.10
2009	1.35	3.75	5.10	27.96
2010	1.38	3.85	5.23	28.86
2011	1.42	3.95	5.38	29.78
2012	1.46	4.06	5.52	30.73
2013	1.50	4.17	5.67	31.72
2014	1.54	4.28	5.82	32.73
2015	1.58	4.40	5.98	33.78
2016	1.62	4.52	6.14	34.86
2017	1.67	4.64	6.31	35.98
2018	1.71	4.77	6.48	37.13
2019	1.76	4.89	6.65	38.32
2020	1.81	5.03	6.83	39.54
2021	1.85	5.16	7.02	40.81
2022	1.90	5.30	7.21	42.11
2023	1.96	5.44	7.40	43.46
2024	2.01	5.59	7.60	44.85
2025	2.06	5.74	7.80	46.29
2026	2.12	5.90	8.02	47.77
2027	2.18	6.06	8.23	49.30
2028	2.23	6.22	8.45	50.87
2029	2.29	6.39	8.68	52.50
2030	2.36	6.56	8.92	54.18
2031	2.42	6.74	9.16	55.92
2032	2.49	6.92	9.41	57.71
2033	2.55	7.11	9.66	59.55
2034	2.62	7.30	9.92	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	9.86	4.96	0.00	N/A	14.82
2009	10.06	5.10	0.00	N/A	15.16
2010	10.27	5.23	0.00	N/A	15.51
2011	10.49	5.38	0.00	N/A	15.87
2012	10.71	5.52	0.00	N/A	16.23
2013	10.94	5.67	0.00	N/A	16.61
2014	11.17	5.82	0.00	N/A	16.99
2015	11.40	5.98	0.00	N/A	17.38
2016	11.64	6.14	0.00	N/A	17.78
2017	11.88	6.31	0.00	N/A	18.19
2018	12.13	6.48	0.00	N/A	18.61
2019	12.39	6.65	0.00	N/A	19.04
2020	12.65	6.83	0.00	N/A	19.48
2021	12.91	7.02	0.00	N/A	19.93
2022	13.19	7.21	0.00	N/A	20.39
2023	13.46	7.40	0.00	N/A	20.86
2024	13.74	7.60	0.00	N/A	21.34
2025	14.03	7.80	0.00	N/A	21.84
2026	14.33	8.02	0.00	N/A	22.34
2027	14.63	8.23	0.00	N/A	22.86
2028	14.94	8.45	0.00	N/A	23.39
2029	15.25	8.68	0.00	N/A	23.93
2030	15.57	8.92	0.00	N/A	24.49
2031	15.90	9.16	0.00	N/A	25.06
2032	16.23	9.41	0.00	N/A	25.64
2033	16.57	9.66	0.00	N/A	26.23
2034	16.92	9.92	0.00	N/A	26.84
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	32.18	33.72	35.34	37.04	38.82	40.68
2	31.05	32.54	34.10	35.74	37.45	13.09
3	29.95	31.39	32.90	34.48	12.05	12.33
4	28.90	30.29	31.74	11.10	11.35	11.61
5	27.89	29.22	10.21	10.45	10.69	10.94
6	26.90	9.40	9.62	9.84	10.07	10.30
7	8.66	8.86	9.06	9.27	9.48	9.70
8	8.15	8.34	8.53	8.73	8.93	9.14
9	7.68	7.86	8.04	8.22	8.41	8.61
10	7.23	7.40	7.57	7.74	7.92	8.11
11	6.81	6.97	7.13	7.29	7.46	7.63
12	6.42	6.56	6.72	6.87	7.03	7.19
13	6.04	6.18	6.33	6.47	6.62	6.77
14	5.69	5.82	5.96	6.10	6.24	6.38
15	5.36	5.48	5.61	5.74	5.87	6.01
16	5.05	5.17	5.29	5.41	5.53	5.66
17	4.76	4.87	4.98	5.09	5.21	5.33
18	4.48	4.58	4.69	4.80	4.91	5.02
19	4.22	4.32	4.42	4.52	4.62	4.73
20	3.97	4.07	4.16	4.26	4.35	4.46
21	3.74	3.83	3.92	4.01	4.10	4.20
22	3.53	3.61	3.69	3.78	3.86	3.95
23	3.32	3.40	3.48	3.56	3.64	3.72
24	3.13	3.20	3.28	3.35	3.43	3.51
25	2.95	3.02	3.08	3.16	3.23	3.30
26	2.78	2.84	2.91	2.97	3.04	3.11
27	2.61	2.68	2.74	2.80	2.87	2.93
28	2.46	2.52	2.58	2.64	2.70	2.76
29	2.32	2.37	2.43	2.49	2.54	0.00
30	2.19	2.24	2.29	2.34	0.00	0.00
31	2.06	2.11	2.16	0.00	0.00	0.00
32	1.94	1.98	0.00	0.00	0.00	0.00
33	1.83	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	32.18	33.72	35.34	37.04	38.82	40.68
2	63.23	66.26	69.44	72.77	76.27	53.77
3	93.18	97.65	102.34	107.25	88.32	66.10
4	122.08	127.94	134.08	118.35	99.67	77.71
5	149.97	157.16	144.30	128.80	110.36	88.65
6	176.87	166.57	153.92	138.64	120.43	98.95
7	185.53	175.43	162.98	147.91	129.91	108.65
8	193.68	183.77	171.51	156.64	138.84	117.78
9	201.36	191.62	179.55	164.86	147.25	126.39
10	208.60	199.02	187.12	172.61	155.18	134.50
11	215.41	205.99	194.25	179.90	162.64	142.13
12	221.82	212.56	200.96	186.77	169.67	149.32
13	227.87	218.74	207.29	193.24	176.29	156.10
14	233.56	224.56	213.25	199.34	182.52	162.48
15	238.92	230.05	218.86	205.08	188.40	168.48
16	243.97	235.21	224.14	210.48	193.93	174.15
17	248.73	240.08	229.12	215.58	199.14	179.48
18	253.21	244.66	233.81	220.38	204.05	184.50
19	257.42	248.98	238.23	224.89	208.67	189.23
20	261.40	253.05	242.39	229.15	213.03	193.68
21	265.14	256.88	246.31	233.16	217.13	197.88
22	268.67	260.48	250.00	236.94	220.99	201.84
23	271.99	263.88	253.48	240.49	224.63	205.56
24	275.12	267.08	256.75	243.84	228.06	209.07
25	278.07	270.10	259.84	247.00	231.29	212.37
26	280.84	272.94	262.74	249.97	234.33	215.48
27	283.46	275.61	265.48	252.78	237.20	218.42
28	285.92	278.13	268.06	255.41	239.90	221.18
29	288.24	280.51	270.49	257.90	242.44	221.18
30	290.42	282.74	272.77	260.24	242.44	221.18
31	292.48	284.85	274.93	260.24	242.44	221.18
32	294.42	286.83	274.93	260.24	242.44	221.18
33	296.25	286.83	274.93	260.24	242.44	221.18
34	296.25	286.83	274.93	260.24	242.44	221.18
35	296.25	286.83	274.93	260.24	242.44	221.18

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	35.96	37.68	39.49	41.39	29.18
3	35.08	36.77	38.53	40.38	33.25	24.89
4	35.86	37.58	39.38	34.76	29.27	22.82
5	36.63	38.39	35.25	31.46	26.96	21.65
6	37.40	35.23	32.55	29.32	25.47	20.92
7	34.92	33.02	30.68	27.84	24.45	20.45
8	33.10	31.41	29.31	26.77	23.73	20.13
9	31.73	30.20	28.29	25.98	23.20	19.92
10	30.67	29.26	27.51	25.38	22.81	19.77
11	29.83	28.52	26.90	24.91	22.52	19.68
12	29.16	27.94	26.41	24.55	22.30	19.63
13	28.61	27.47	26.03	24.27	22.14	19.60
14	28.17	27.08	25.72	24.04	22.01	19.60
15	27.80	26.77	25.47	23.87	21.93	19.61
16	27.50	26.52	25.27	23.73	21.86	19.63
17	27.25	26.31	25.11	23.62	21.82	19.67
18	27.05	26.14	24.98	23.54	21.80	19.71
19	26.88	26.00	24.87	23.48	21.79	19.76
20	26.74	25.88	24.79	23.44	21.79	19.81
21	26.62	25.79	24.73	23.41	21.80	19.87
22	26.52	25.71	24.68	23.39	21.82	19.92
23	26.44	25.66	24.64	23.38	21.84	19.99
24	26.38	25.61	24.62	23.38	21.87	20.05
25	26.33	25.58	24.60	23.39	21.90	20.11
26	26.29	25.55	24.60	23.40	21.94	20.17
27	26.26	25.53	24.60	23.42	21.98	20.24
28	26.24	25.52	24.60	23.44	22.02	20.30
29	26.22	25.52	24.61	23.46	22.06	20.12
30	26.21	25.52	24.62	23.49	21.88	19.96
31	26.21	25.53	24.64	23.32	21.73	19.82
32	26.21	25.54	24.48	23.17	21.58	19.69
33	26.21	25.38	24.33	23.03	21.45	19.57
34	26.07	25.24	24.19	22.90	21.33	19.46
35	25.94	25.11	24.07	22.79	21.23	19.37

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	35.96	37.68	39.49	41.39	51.61
3	35.08	36.77	38.53	40.38	55.68	47.32
4	35.86	37.58	39.38	57.19	51.70	45.25
5	36.63	38.39	57.68	53.89	49.39	44.08
6	37.40	57.66	54.98	51.75	47.90	43.35
7	57.35	55.45	53.11	50.27	46.88	42.88
8	55.53	53.84	51.74	49.20	46.16	42.56
9	54.16	52.63	50.72	48.41	45.63	42.35
10	53.10	51.69	49.94	47.81	45.24	42.20
11	52.26	50.95	49.33	47.34	44.95	42.11
12	51.59	50.37	48.84	46.98	44.73	42.06
13	51.04	49.90	48.46	46.70	44.57	42.03
14	50.60	49.51	48.15	46.47	44.44	42.03
15	50.23	49.20	47.90	46.30	44.36	42.04
16	49.93	48.95	47.70	46.16	44.29	42.06
17	49.68	48.74	47.54	46.05	44.25	42.10
18	49.48	48.57	47.41	45.97	44.23	42.14
19	49.31	48.43	47.30	45.91	44.22	42.19
20	49.17	48.31	47.22	45.87	44.22	42.24
21	49.05	48.22	47.16	45.84	44.23	42.30
22	48.95	48.14	47.11	45.82	44.25	42.35
23	48.87	48.09	47.07	45.81	44.27	42.42
24	48.81	48.04	47.05	45.81	44.30	42.48
25	48.76	48.01	47.03	45.82	44.33	42.54
26	48.72	47.98	47.03	45.83	44.37	42.60
27	48.69	47.96	47.03	45.85	44.41	42.67
28	48.67	47.95	47.03	45.87	44.45	42.73
29	48.65	47.95	47.04	45.89	44.49	42.55
30	48.64	47.95	47.05	45.92	44.31	42.39
31	48.64	47.96	47.07	45.75	44.16	42.25
32	48.64	47.97	46.91	45.60	44.01	42.12
33	48.64	47.81	46.76	45.46	43.88	42.00
34	48.50	47.67	46.62	45.33	43.76	41.89
35	48.37	47.54	46.50	45.22	43.66	41.80

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	37.25
2009	37.59
2010	37.94
2011	38.30
2012	38.66
2013	39.04
2014	39.42
2015	39.81
2016	40.21
2017	40.62
2018	41.04
2019	41.47
2020	41.91
2021	42.36
2022	42.82
2023	43.29
2024	43.77
2025	44.27
2026	44.77
2027	45.29
2028	45.82
2029	46.36
2030	46.92
2031	47.49
2032	48.07
2033	48.66
2034	49.27
2035	22.43
2036	22.43

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PACIFICORP

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02-Aug-02
Non-Fueled

August, 2002

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09-Aug-02
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BASE YEAR, O&M EXPENSES:	NWPPC Report/IPUC Staff	2000
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CAPITAL CARRYING CHARGE (%):	Financial Analysis - Or Order	13.260%
LEVEL CARRYING COST (mil/kWh):	Calculated	12.08
"TILTING" RATE (%):	IPUC Staff	2.10%
TYPE OF RATES:		Non-Fueled
CURRENT YEAR:		2002

Case No. GNR-E-02-1
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PacifiCorp
Witness: Mark T. Widmer

Non-Fueled

SURPLUS COST (m/kWh)	
YEAR	VALUE
2002	33.54
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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	10.45	N/A
2001	10.67	N/A
2002	10.89	N/A
2003	11.12	N/A
2004	11.35	N/A
2005	11.59	N/A
2006	11.84	N/A
2007	12.08	N/A
2008	12.34	9.92
2009	12.60	10.13
2010	12.86	10.35
2011	13.13	10.56
2012	13.41	10.78
2013	13.69	11.01
2014	13.98	11.24
2015	14.27	11.48
2016	14.57	11.72
2017	14.88	11.97
2018	15.19	12.22
2019	15.51	12.47
2020	15.83	12.74
2021	16.16	13.00
2022	16.50	13.28
2023	16.85	13.55
2024	17.20	13.84
2025	17.57	14.13
2026	17.93	14.43
2027	18.31	14.73
2028	18.70	15.04
2029	19.09	15.35
2030	19.49	15.68
2031	19.90	16.01
2032	20.32	16.34
2033	20.74	16.69
2034	21.18	17.04

ANNUAL OPERATION & MAINTENANCE COSTS (m/kwh)				
YEAR	FIXED	VARIABLE	TOTAL	FUEL
2000	1.06	2.95	4.01	N/A
2001	1.09	3.03	4.12	N/A
2002	1.12	3.11	4.23	22.43
2003	1.15	3.20	4.34	23.14
2004	1.18	3.28	4.46	23.88
2005	1.21	3.37	4.58	24.65
2006	1.24	3.46	4.70	25.44
2007	1.28	3.55	4.83	26.25
2008	1.31	3.65	4.96	27.09
2009	1.35	3.75	5.10	27.96
2010	1.38	3.85	5.23	28.85
2011	1.42	3.95	5.38	29.78
2012	1.46	4.06	5.52	30.73
2013	1.50	4.17	5.67	31.71
2014	1.54	4.28	5.82	32.73
2015	1.58	4.40	5.98	33.77
2016	1.62	4.52	6.14	34.85
2017	1.67	4.64	6.31	35.97
2018	1.71	4.77	6.48	37.12
2019	1.76	4.89	6.65	38.31
2020	1.81	5.03	6.83	39.53
2021	1.85	5.16	7.02	40.80
2022	1.90	5.30	7.21	42.11
2023	1.96	5.44	7.40	43.45
2024	2.01	5.59	7.60	44.84
2025	2.06	5.74	7.80	46.28
2026	2.12	5.90	8.02	47.76
2027	2.18	6.06	8.23	49.29
2028	2.23	6.22	8.45	50.86
2029	2.29	6.39	8.68	52.49
2030	2.36	6.56	8.92	54.17
2031	2.42	6.74	9.16	55.91
2032	2.49	6.92	9.41	57.69
2033	2.55	7.11	9.66	59.54
2034	2.62	7.30	9.92	61.45

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	9.92	4.96	27.09	N/A	41.98
2009	10.13	5.10	27.96	N/A	43.19
2010	10.35	5.23	28.85	N/A	44.43
2011	10.56	5.38	29.78	N/A	45.71
2012	10.78	5.52	30.73	N/A	47.03
2013	11.01	5.67	31.71	N/A	48.39
2014	11.24	5.82	32.73	N/A	49.79
2015	11.48	5.98	33.77	N/A	51.23
2016	11.72	6.14	34.85	N/A	52.72
2017	11.97	6.31	35.97	N/A	54.24
2018	12.22	6.48	37.12	N/A	55.82
2019	12.47	6.65	38.31	N/A	57.43
2020	12.74	6.83	39.53	N/A	59.10
2021	13.00	7.02	40.80	N/A	60.82
2022	13.28	7.21	42.11	N/A	62.59
2023	13.55	7.40	43.45	N/A	64.41
2024	13.84	7.60	44.84	N/A	66.28
2025	14.13	7.80	46.28	N/A	68.21
2026	14.43	8.02	47.76	N/A	70.20
2027	14.73	8.23	49.29	N/A	72.25
2028	15.04	8.45	50.86	N/A	74.36
2029	15.35	8.68	52.49	N/A	76.53
2030	15.68	8.92	54.17	N/A	78.77
2031	16.01	9.16	55.91	N/A	81.07
2032	16.34	9.41	57.69	N/A	83.44
2033	16.69	9.66	59.54	N/A	85.89
2034	17.04	9.92	61.45	N/A	88.40
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	32.18	33.72	35.34	37.04	38.82	40.68
2	31.05	32.54	34.10	35.74	37.45	37.08
3	29.95	31.39	32.90	34.48	34.14	35.12
4	28.90	30.29	31.74	31.43	32.33	33.27
5	27.89	29.22	28.94	29.77	30.63	31.51
6	26.90	26.64	27.41	28.20	29.01	29.85
7	24.52	25.23	25.96	26.71	27.48	28.27
8	23.23	23.90	24.59	25.30	26.03	26.78
9	22.00	22.64	23.29	23.96	24.66	25.37
10	20.84	21.44	22.06	22.70	23.36	24.03
11	19.74	20.31	20.90	21.50	22.13	22.77
12	18.70	19.24	19.80	20.37	20.96	21.57
13	17.71	18.23	18.75	19.30	19.86	20.43
14	16.78	17.26	17.76	18.28	18.81	19.36
15	15.89	16.35	16.83	17.32	17.82	18.34
16	15.06	15.49	15.94	16.41	16.88	17.37
17	14.26	14.68	15.10	15.54	15.99	16.46
18	13.51	13.91	14.31	14.73	15.15	15.59
19	12.80	13.17	13.56	13.95	14.36	14.78
20	12.13	12.48	12.84	13.22	13.60	14.00
21	11.49	11.82	12.17	12.52	12.89	13.26
22	10.89	11.20	11.53	11.87	12.21	12.57
23	10.31	10.61	10.92	11.24	11.57	11.91
24	9.77	10.06	10.35	10.65	10.96	11.28
25	9.26	9.53	9.81	10.09	10.39	10.69
26	8.77	9.03	9.29	9.56	9.84	10.13
27	8.31	8.56	8.81	9.06	9.33	9.60
28	7.88	8.11	8.34	8.59	8.84	9.10
29	7.46	7.68	7.91	8.14	8.38	0.00
30	7.07	7.28	7.49	7.71	0.00	0.00
31	6.70	6.90	7.10	0.00	0.00	0.00
32	6.35	6.54	0.00	0.00	0.00	0.00
33	6.02	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	32.18	33.72	35.34	37.04	38.82	40.68
2	63.23	66.26	69.44	72.77	76.27	77.76
3	93.18	97.65	102.34	107.25	110.41	112.88
4	122.08	127.94	134.08	138.68	142.74	146.15
5	149.97	157.16	163.02	168.45	173.37	177.66
6	176.87	183.80	190.42	196.65	202.38	207.51
7	201.40	209.03	216.38	223.35	229.85	235.78
8	224.62	232.93	240.97	248.65	255.88	262.56
9	246.63	255.57	264.26	272.62	280.54	287.93
10	267.47	277.01	286.32	295.31	303.90	311.96
11	287.21	297.32	307.22	316.82	326.02	334.73
12	305.91	316.56	327.02	337.19	346.98	356.29
13	323.62	334.79	345.77	356.48	366.84	376.73
14	340.40	352.05	363.53	374.76	385.65	396.08
15	356.29	368.41	380.36	392.08	403.47	414.42
16	371.35	383.90	396.31	408.48	420.35	431.79
17	385.61	398.58	411.41	424.03	436.34	448.25
18	399.13	412.48	425.72	438.75	451.50	463.85
19	411.93	425.66	439.28	452.70	465.85	478.62
20	424.06	438.14	452.12	465.92	479.46	492.62
21	435.55	449.96	464.29	478.45	492.34	505.89
22	446.43	461.17	475.82	490.31	504.56	518.46
23	456.75	471.78	486.74	501.55	516.13	530.36
24	466.52	481.84	497.09	512.21	527.09	541.65
25	475.78	491.37	506.90	522.30	537.48	552.34
26	484.55	500.40	516.19	531.86	547.32	562.47
27	492.86	508.95	525.00	540.93	556.65	572.07
28	500.74	517.06	533.34	549.51	565.49	581.17
29	508.20	524.74	541.25	557.65	573.87	581.17
30	515.27	532.02	548.74	565.36	573.87	581.17
31	521.97	538.91	555.84	565.36	573.87	581.17
32	528.32	545.45	555.84	565.36	573.87	581.17
33	534.34	545.45	555.84	565.36	573.87	581.17
34	534.34	545.45	555.84	565.36	573.87	581.17
35	534.34	545.45	555.84	565.36	573.87	581.17

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	35.96	37.68	39.49	41.39	42.20
3	35.08	36.77	38.53	40.38	41.57	42.50
4	35.86	37.58	39.38	40.73	41.92	42.92
5	36.63	38.39	39.82	41.14	42.35	43.39
6	37.40	38.87	40.27	41.59	42.80	43.88
7	37.91	39.34	40.73	42.04	43.26	44.38
8	38.39	39.81	41.19	42.50	43.73	44.88
9	38.86	40.27	41.64	42.96	44.21	45.37
10	39.32	40.73	42.09	43.42	44.68	45.86
11	39.77	41.17	42.54	43.87	45.15	46.35
12	40.21	41.61	42.98	44.32	45.61	46.83
13	40.64	42.04	43.42	44.76	46.06	47.31
14	41.06	42.46	43.85	45.20	46.51	47.77
15	41.46	42.87	44.27	45.63	46.95	48.23
16	41.86	43.28	44.68	46.05	47.39	48.68
17	42.25	43.68	45.08	46.46	47.81	49.12
18	42.64	44.06	45.48	46.87	48.23	49.55
19	43.01	44.44	45.86	47.27	48.64	49.97
20	43.37	44.81	46.24	47.65	49.04	50.38
21	43.73	45.17	46.61	48.03	49.43	50.79
22	44.07	45.53	46.97	48.40	49.81	51.18
23	44.41	45.87	47.32	48.76	50.18	51.56
24	44.73	46.20	47.67	49.12	50.54	51.94
25	45.05	46.53	48.00	49.46	50.89	52.30
26	45.36	46.84	48.32	49.79	51.24	52.66
27	45.66	47.15	48.64	50.11	51.57	53.00
28	45.95	47.45	48.95	50.43	51.90	53.33
29	46.24	47.74	49.24	50.74	52.21	52.87
30	46.51	48.02	49.53	51.03	51.80	52.46
31	46.78	48.29	49.81	50.66	51.43	52.08
32	47.03	48.56	49.48	50.33	51.09	51.74
33	47.28	48.27	49.18	50.03	50.78	51.43
34	47.02	48.00	48.91	49.75	50.50	51.14
35	46.78	47.76	48.67	49.50	50.25	50.88

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	35.96	37.68	39.49	41.39	42.20
3	35.08	36.77	38.53	40.38	41.57	42.50
4	35.86	37.58	39.38	40.73	41.92	42.92
5	36.63	38.39	39.82	41.14	42.35	43.39
6	37.40	38.87	40.27	41.59	42.80	43.88
7	37.91	39.34	40.73	42.04	43.26	44.38
8	38.39	39.81	41.19	42.50	43.73	44.88
9	38.86	40.27	41.64	42.96	44.21	45.37
10	39.32	40.73	42.09	43.42	44.68	45.86
11	39.77	41.17	42.54	43.87	45.15	46.35
12	40.21	41.61	42.98	44.32	45.61	46.83
13	40.64	42.04	43.42	44.76	46.06	47.31
14	41.06	42.46	43.85	45.20	46.51	47.77
15	41.46	42.87	44.27	45.63	46.95	48.23
16	41.86	43.28	44.68	46.05	47.39	48.68
17	42.25	43.68	45.08	46.46	47.81	49.12
18	42.64	44.06	45.48	46.87	48.23	49.55
19	43.01	44.44	45.86	47.27	48.64	49.97
20	43.37	44.81	46.24	47.65	49.04	50.38
21	43.73	45.17	46.61	48.03	49.43	50.79
22	44.07	45.53	46.97	48.40	49.81	51.18
23	44.41	45.87	47.32	48.76	50.18	51.56
24	44.73	46.20	47.67	49.12	50.54	51.94
25	45.05	46.53	48.00	49.46	50.89	52.30
26	45.36	46.84	48.32	49.79	51.24	52.66
27	45.66	47.15	48.64	50.11	51.57	53.00
28	45.95	47.45	48.95	50.43	51.90	53.33
29	46.24	47.74	49.24	50.74	52.21	52.87
30	46.51	48.02	49.53	51.03	51.80	52.46
31	46.78	48.29	49.81	50.66	51.43	52.08
32	47.03	48.56	49.48	50.33	51.09	51.74
33	47.28	48.27	49.18	50.03	50.78	51.43
34	47.02	48.00	48.91	49.75	50.50	51.14
35	46.78	47.76	48.67	49.50	50.25	50.88

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	41.98
2009	43.19
2010	44.43
2011	45.71
2012	47.03
2013	48.39
2014	49.79
2015	51.23
2016	52.72
2017	54.24
2018	55.82
2019	57.43
2020	59.10
2021	60.82
2022	62.59
2023	64.41
2024	66.28
2025	68.21
2026	70.20
2027	72.25
2028	74.36
2029	76.53
2030	78.77
2031	81.07
2032	83.44
2033	85.89
2034	88.40
2035	0.00
2036	0.00