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October 20, 2011

VIA ELECTRONIC AND U.S. MAIL

PUC Filing Center
Public Utility Commission of Oregon
PO Box 2148
Salem, OR 97308-2148

Re: UE ___ In The Matter of IDAHO POWER COMPANY's 2012 Annual Power Cost Update

Attention Filing Center:

Enclosed for filing in the above-referenced matter is an original and five copies of the testimony of Scott Wright (Idaho Power/100-107). Please direct all communications in this matter to:

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A copy of this filing has been served on all parties to the 2011 APCU (UE 222). Please contact me with any questions.

Very truly yours,

Wendy McIndoo
Legal Assistant

Enclosures
cc: Service List

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IN THE MATTER OF IDAHO POWER)
COMPANY'S 2012 ANNUAL POWER)
COST UPDATE)
)
OCTOBER UPDATE)
)
)
)
_____)

IDAHO POWER COMPANY
DIRECT TESTIMONY
OF
SCOTT WRIGHT

October 20, 2011

1 **Q. Please state your name, business address, and present occupation.**

2 A. My name is Scott Wright. I am employed by Idaho Power Company (“Idaho Power”
3 or “Company”) as a Regulatory Analyst in the Regulatory Affairs Department. My
4 business address is 1221 West Idaho Street, Boise, Idaho 83702.

5 **Q. Please describe your educational background.**

6 A. I received a Bachelor of Science degree in Business Economics from Eastern
7 Oregon University. I have also attended the Center for Public Utilities “Practical
8 Skills for a Changing Electric Industry” course at New Mexico State University in
9 Albuquerque, New Mexico, as well as the Edison Electric Institute “Electric Rate
10 Advanced Course” in Madison, Wisconsin.

11 **Q. Please describe your work experience.**

12 A. In May 1998, I accepted a position as Research Assistant with Idaho Power in the
13 Regulatory Affairs Department. In March 2007, I was promoted to a Regulatory
14 Analyst I. In March 2010, I was promoted to a Regulatory Analyst II. As a
15 Regulatory Analyst II, I am responsible for running the AURORA model to calculate
16 net power supply expenses (“NPSE”) for ratemaking purposes, as well as the
17 marginal cost of energy used in the Company’s marginal cost analysis. My duties
18 also include providing analytical support for other regulatory activities within the
19 Regulatory Affairs Department. In my current role, I have served as the Company’s
20 power supply expense witness in the last three Annual Power Cost Update (“APCU”)
21 filings before the Public Utility Commission of Oregon (“Commission”), UE 203, UE
22 214, and UE 222.

23 **Q. What is the purpose of your testimony?**

24 A. The purpose of my testimony is to describe the Company’s October Update for the
25 2012 APCU, which is required as detailed in Order No. 08-238.

26 **Q. What is the October Update?**

1 A. The October Update is the Company's estimate of what "normal" power supply
2 expenses will be for an upcoming water year. In this case, the water year is April
3 2012 through March 2013.

4 **Q. Was the AURORA model used for this October Update?**

5 A. Yes.

6 **Q. Please describe the AURORA model and how it is used by the Company.**

7 A. The AURORA model is a comprehensive electric market resource dispatch model.
8 The Company uses AURORA to determine the economic dispatch of its resources to
9 determine a net power supply expense under "normal" conditions.

10 **Q. Please describe the variables that are to be updated in the AURORA model as
11 delineated in Order No. 08-238.**

12 A. Order No. 08-238 identifies a number of variables to be updated in the AURORA
13 model annually in October: fuel prices, transportation costs, maintenance rates, heat
14 rates, and forced outage rates for the thermal plants. This year's update is for the
15 April 2012 through March 2013 test year and reflects updated plant capacities for all
16 Company-owned resources as well as an updated Sales and Load Forecast.

17 Natural gas prices were updated using the forecast methodology used in the
18 Company's Integrated Resource Plan. This methodology uses the Northwest Power
19 and Conservation Council (NPCC), New York Mercantile Exchange (NYMEX),
20 Natural Gas Exchange (NGX), Energy Information Administration (EIA) and Moody's
21 forecast data to develop a normalized gas price that is used for ratemaking
22 purposes. The normalization process reduces volatility that may occur in the short-
23 term market.

24 Public Utility Regulatory Policies Act of 1978 ("PURPA") contracts and other
25 wholesale contracts were updated to reflect expected costs during the April 2012
26 through March 2013 test year.

1 **Q. Have any additional resources been added to the Company's resource**
2 **portfolio, since last year's 2011 October Update?**

3 A. Yes. The Langley Gulch power plant has been included in the 2012 October Update.
4 Langley Gulch is a 300 megawatts combined-cycle natural gas plant currently under
5 construction. It is expected to be on-line in July 2012, during the April 2012 through
6 March 2013 test year.

7 **Q. Have you prepared an exhibit to demonstrate the normalization of variable**
8 **power supply expenses for this scenario?**

9 A. Yes. Exhibit 101 shows the results of the variable power supply expense
10 normalization modeling for the April 2012 through March 2013 test year. Exhibit 101
11 shows the summary results containing the 83-year average variable power supply
12 generation sources and expenses.

13 **Q. Please summarize the sources and disposition of energy shown on Exhibit**
14 **101.**

15 A. Hydro generation supplies 8.6 million megawatt-hours ("MWh"), approximately 46
16 percent (8.6 million MWh / 18.8 million MWh = 46 percent) of the generation mix.
17 Thermal generation supplies 6.6 million MWh (Bridger 4.5, Boardman 0.4, Valmy 0.8,
18 Langley Gulch 0.9), approximately 35 percent (6.6 million MWh / 18.8 million MWh =
19 35 percent) of the generation mix. Danskin and Bennett Mountain are peaking units
20 supplying energy at times when resources and/or transmission lines are constrained.
21 Purchases of power are made up of short-term and longer-term market purchases
22 and PURPA. PURPA purchases are normalized and account for nearly 2.7 million
23 MWh. PURPA purchases are not included on Exhibit 101; however, when combined
24 with market purchases of 0.9 million MWh, total purchases amount to 3.6 million
25 MWh (2.7 million MWh + 0.9 million MWh = 3.6 million MWh) or approximately 19
26 percent (3.6 million MWh / 18.8 million MWh = 19 percent) of the generation mix. Of

1 the 18.8 million MWh consumed, 16.1 million MWh are utilized for system loads
2 while nearly 2.7 million MWh are sold as surplus.

3 **Q. Please explain the changes in coal prices from last year's October filing.**

4 A. Coal prices for each of the Company's coal-fired thermal generation plants have
5 been updated to reflect current operating costs. The coal prices at the Bridger plant
6 have increased from \$22.33 per MWh to \$22.54 per MWh. The coal prices at the
7 Boardman plant have increased from \$18.65 per MWh to \$20.40 per MWh. The coal
8 prices at the Valmy plant have increased from \$29.09 per MWh to \$34.77 per MWh.

9 **Q. Please describe the change in PURPA generation and expenses since last
10 year's October filing.**

11 A. PURPA generation has increased from 195 average megawatts ("aMW") to 310
12 aMW, an increase of 115 aMW. PURPA expenses have also increased from \$129.1
13 million to \$193.2 million, an increase of \$64.1 million.

14 **Q. Please explain the large increase in PURPA since the 2011 October Update.**

15 A. The large increase in PURPA generation and expenses since the 2011 October
16 Update is primarily driven by additional wind projects coming on-line during the April
17 2012 through March 2013 test year.

18 **Q. Please explain the treatment of PURPA expense in Oregon.**

19 A. Many of the PURPA contracts have payment provisions that require the Company to
20 provide levelized monthly payments over the length of the contract. Oregon
21 regulation requires the Company to reflect a non-levelized payment stream in rates,
22 rather than the levelized monthly payment stream. The Oregon method provides
23 benefits in the early years of the contract by paying less than the actual contract
24 levels. As time passes, the non-levelized method required in Oregon begins to
25 exceed the levelized monthly payment stream, therefore, reflecting the higher re-
26 priced costs.

1 **Q. Please describe the change in the Company's system loads since last year's**
2 **October filing.**

3 A. The Company's annual normalized system load used in last year's April 2011
4 through March 2012 filing was 1,826 aMW. The Company's April 2012 through
5 March 2013 annual normalized system load used in this filing is 1,841 aMW, an
6 increase of 15 aMW.

7 **Q. Does the normalized system load for the April 2012 through March 2013 test**
8 **period include expected loads from Special Contract customer Hoku Materials,**
9 **Inc. ("Hoku")?**

10 A. Yes. Hoku, a manufacturer of solar panels, is expected to be receiving power during
11 the April 2012 through March 2013 test period.

12 **Q. Please explain the Hoku contract.**

13 A. The Electric Service Agreement ("ESA") between the Company and Hoku includes a
14 rate structure that is separated into two blocks. The first block of the contract rate
15 structure charges market based rates, while the second block charges embedded
16 rates. The first block energy-related revenues are subtracted from the NPSE in a
17 similar manner to the treatment of surplus sales, which also reduce NPSE.

18 **Q. How is the Hoku ESA treated in your NPSE calculations?**

19 A. The Hoku ESA loads were included during the April 2012 through March 2013 time
20 period, while first block energy-related revenues were subtracted from the NPSE as
21 mentioned above.

22 **Q. What forward price curve did the Company use to re-price purchased power**
23 **and surplus sales?**

24 A. For the October Update, the Company used the methodology approved in Order No.
25 08-238. This methodology uses a one-year average of the daily forward price curves
26 for April 2013 through March 2014 shown in Exhibit 102, which is then discounted for

1 inflation back to April 2012 through March 2013 according to the quarterly inflation
2 indices provided in Exhibit 103.

3 **Q. What are the average forward price curves the Company used to re-price**
4 **purchased power and surplus sales for the normalized test year?**

5 A. Exhibit 104 shows the revised monthly prices for April 2012 through March 2013.
6 These are considered the “normal” forward prices used to re-price the Company’s
7 purchased power and surplus sales estimates for the normalized test year as set
8 forth in Order No 08-238.

9 **Q. How does the re-pricing of purchased power and surplus sales, using a**
10 **“normal” forward price curve, change the purchased power expenses and**
11 **surplus sales revenues as modeled by AURORA?**

12 A. Exhibit 101 shows the purchased power expenses and surplus sales revenues
13 before re-pricing. Exhibit 105 shows the same normalized generation dispatch, with
14 purchased power and surplus sales re-priced using the normalized forward price
15 curve shown in Exhibit 104. A comparison of Exhibit 101 and Exhibit 105
16 demonstrates the changes due to re-pricing. Purchased power expenses increase
17 by \$1.6 million, moving from \$40.3 million to \$41.9 million. Surplus sales revenues
18 increase by \$18.2 million, moving from \$86.9 million to \$105.1 million.

19 **Q. Does the methodology used to estimate the power supply expenses**
20 **represented in Exhibit 104 conform with the methodology detailed in Order No.**
21 **08-238?**

22 A. Yes, it does.

23 **Q. What is the October Update unit cost per megawatt-hour (\$/MWh) represented**
24 **by this filing?**

25 A. Exhibit 105 shows the normalized annual sales at customer level for the April 2012
26 through March 2013 test year are 14,713,937 MWh. Based upon test year sales, the

1 cost per unit for the October Update to become effective on June 1, 2012, is \$19.07
2 per MWh (\$280.6 million / 14.714 million MWh = \$19.07 per MWh).

3 **Q. How does this \$19.07 per MWh October Update compare to the October Update**
4 **that resulted from last year's computation?**

5 A. The October Update unit cost which became effective June 1, 2011, was \$16.96 per
6 MWh. This year's October Update of \$19.07 per MWh equates to an increase of
7 \$2.11 per MWh ($\$19.07 - \$16.96 = \2.11).

8 **Q. Please explain how the revenue requirement for the October Update is**
9 **calculated using the unit cost of \$2.11 per MWh.**

10 A. The revenue requirement for the October Update is calculated by multiplying the unit
11 cost of \$2.11 per MWh by the loss adjusted sales for the April 2012 through March
12 2013 test period of 659,350.677 MWh creating a revenue requirement of \$1.4 million.

13 **Q. What method of allocation are you proposing to spread the incremental**
14 **revenue requirement associated with the October Update to the various**
15 **customer classes?**

16 A. I am proposing to allocate the incremental revenue requirement associated with the
17 2012 October Update according to the revenue spread methodology approved by the
18 Commission in UE 214, Order No. 10-191. Order No. 10-191 established a revenue
19 spread methodology whereby the revenue requirement for the October Update is
20 allocated to individual customer classes on the basis of the total generation-related
21 revenue requirement approved in the Company's last general rate case, UE 213.
22 The Commission's preferred allocation methodology further applies a subsidy
23 correction adjustment to any customer class whose final revenue allocation in UE
24 213 was below the cost-of-service revenue requirement. As a result of applying the
25 subsidy correction adjustment in this case, Irrigation Service and Traffic Control
26 Lighting Service receive a revenue increase equal to 150 percent of the 2012

1 October Update cost-of-service revenue requirement. The proposed revenue spread
2 resulting from the application of the Commission-approved allocation methodology is
3 shown on Exhibit 106.

4 **Q. What is the overall revenue impact of this year's October Update compared to**
5 **last year's October Update using the rate spread methodology described**
6 **above?**

7 A. The overall revenue impact of the October Update compared to last year's October
8 Update is a 3.34 percent increase.

9 **Q. Have you supervised the preparation of an exhibit showing the summary of**
10 **revenue impact resulting from the October Update proposed by the Company?**

11 A. Yes. Exhibit 107 provides a summary of the revenue change resulting from this
12 year's October Update as compared to current revenue.

13 **Q. Does this conclude your testimony?**

14 A. Yes, it does.

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Idaho Power/101
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright

Idaho Power Company's Power Supply Costs for April 2012 – March 2013
Normalized Loads Over 83 Water Year Conditions

October 20, 2011

Idaho Power/102
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright

Mid Columbia Heavy and Light Load
Forward Market Prices

October 20, 2011

Mid-Columbia Heavy Load and Light Load Daily Forward Curves
 April 2013 - March 2014

Idaho Power/102
 Wright/1

MidC HL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
10/1/2010	33.3705	29.6216	26.7703	46.2013	52.9599	49.3694	46.0957	47.9437	54.5967	51.3782	48.0091	42.3379
10/4/2010	33.747	30.009	27.1661	46.6983	53.4371	49.8571	46.6983	48.5409	55.1745	51.4801	48.1227	42.4711
10/5/2010	33.9252	30.185	27.3403	46.9368	53.6797	50.0976	46.9895	48.8333	55.4708	51.7734	48.4151	42.762
10/6/2010	34.5638	30.765	27.8758	47.8864	54.7349	51.0966	47.8864	49.759	56.5006	52.6411	49.2376	43.5083
10/7/2010	34.3512	30.5699	27.694	47.6123	54.4293	50.8078	47.8253	49.6894	56.3998	51.9665	48.5774	42.8724
10/8/2010	34.9421	31.1253	28.2225	48.3276	55.2085	51.553	48.5426	50.4241	57.1975	52.8043	49.3828	43.6234
10/11/2010	35.1597	31.331	28.419	48.5873	55.4898	51.8228	48.803	50.6904	57.485	53.0679	49.6367	43.861
10/12/2010	34.7246	30.9199	28.0262	48.0679	54.9271	51.2831	48.2822	50.1578	56.9098	52.5406	49.1289	43.3858
10/13/2010	34.6071	30.8036	27.9107	48.1071	54.9643	51.3214	48.3214	50.1964	56.9464	52.5818	49.1711	43.4298
10/14/2010	34.4966	30.6934	27.8008	48.0488	54.9052	51.2627	47.7809	49.6558	56.4051	52.0818	48.9546	43.2688
10/15/2010	33.7899	29.9878	27.0961	47.0702	53.9245	50.2832	47.0702	48.9444	55.6917	51.7667	48.6207	42.9006
10/18/2010	34.0509	30.2496	27.3585	47.3287	54.1817	50.541	48.2924	50.1662	56.9122	52.0052	48.862	43.1472
10/19/2010	34.2432	30.3962	27.4704	47.6262	54.5615	50.8771	48.2764	50.1727	56.9997	52.5534	49.3736	43.5922
10/20/2010	34.0495	30.2183	27.3044	47.324	54.231	50.5616	48.0794	49.9681	56.7672	52.2423	49.0744	43.3145
10/21/2010	33.28	29.4317	26.5047	46.3969	53.3347	49.649	47.3183	49.2154	56.0448	51.7214	48.5358	42.744
10/22/2010	32.5792	28.724	25.7919	45.5566	52.5068	48.8145	46.4796	48.3801	55.2217	51.1165	47.9217	42.113
10/25/2010	32.0379	28.1825	25.2502	44.9074	51.858	48.1655	46.2106	48.1112	54.9532	50.5771	47.3797	41.5662
10/26/2010	33.3201	29.4098	26.4358	46.4829	53.5325	49.7874	47.8047	49.7323	56.6717	52.1231	48.8875	43.0045
10/27/2010	34.104	30.1859	27.2059	47.2379	54.3015	50.549	48.5623	50.4938	57.447	53.0955	49.8399	43.9207
10/28/2010	34.2112	30.3123	27.347	47.006	54.035	50.3008	48.5985	50.5205	57.4396	53.1883	49.9487	44.0585
10/29/2010	33.9037	30.0522	27.123	46.76	53.7034	50.0147	48.3331	50.2317	57.0667	52.245	49.0769	43.3167
11/1/2010	33.6318	29.7491	26.7961	46.5924	53.5922	49.8735	48.1236	50.0376	56.928	51.5475	48.3868	42.6402
11/2/2010	33.5999	29.6955	26.726	46.358	53.397	49.6575	47.7878	49.7125	56.6415	52.7436	49.5311	43.6901
11/3/2010	33.9474	30.0536	27.0921	46.4515	53.4713	49.742	48.0419	49.9614	56.8715	52.7682	49.5824	43.7901
11/4/2010	34.3949	30.4561	27.4604	46.9879	54.0888	50.3164	48.5967	50.5383	57.5283	53.2289	50.0082	44.1525
11/5/2010	34.1852	30.2768	27.3042	46.7914	53.8376	50.0943	48.3328	50.2595	57.1956	52.8929	49.6961	43.8836
11/8/2010	34.412	30.5153	27.5516	47.0902	54.1153	50.3832	48.572	50.4929	57.4083	53.1243	49.938	44.1447
11/9/2010	34.6911	30.8	27.8405	47.3508	54.3658	50.6391	48.8305	50.7487	57.654	53.3212	50.1404	44.3572
11/10/2010	34.4728	30.5629	27.5892	47.0834	54.1322	50.3875	48.5152	50.4426	57.3812	53.4083	50.1945	44.3511
11/11/2010	34.3247	30.4066	27.4267	46.6861	53.7497	49.9971	48.452	50.3834	57.3367	53.011	49.7893	43.9318
11/12/2010	34.0804	30.1136	27.0967	46.7068	53.8581	50.059	48.1594	50.1149	57.1544	51.4551	49.3898	43.489
11/15/2010	34.6126	30.5971	27.5431	47.3379	54.5771	50.7313	48.8084	52.5411	57.914	52.0421	49.9532	43.9851
11/16/2010	33.8347	29.903	26.9127	46.2943	53.3824	49.6169	47.7341	51.3889	56.6496	51.23	49.1713	43.2896
11/17/2010	34.2317	30.2926	27.2966	46.8814	53.983	50.2102	48.2684	51.9302	57.2008	51.7058	49.6446	43.7556
11/18/2010	34.0893	30.1666	27.1831	46.6863	53.7584	50.0013	48.0676	51.7141	56.9629	51.4453	49.3922	43.5262
11/19/2010	34.7957	30.8618	27.8698	47.3732	54.4653	50.6976	48.9246	52.5814	57.8451	52.1884	50.1315	44.2544
11/22/2010	35.2604	31.373	28.4164	47.9081	54.9164	51.1933	49.3865	53.0001	58.2016	52.5292	50.4977	44.6933
11/23/2010	35.0802	31.2186	28.2817	47.6438	54.6054	50.9071	49.1123	52.7019	57.8687	52.7951	50.7556	44.9283
11/24/2010	35.1909	31.293	28.3284	47.9826	55.0098	51.2766	49.4649	53.0883	58.3038	51.6273	49.6218	43.8918
11/26/2010	35.1909	31.293	28.3284	47.9826	55.0098	51.2766	49.4649	53.0883	58.3038	51.6273	49.6218	43.8918
11/29/2010	34.4611	30.5958	27.656	47.3636	54.3321	50.6301	48.8336	52.4267	57.5985	50.6059	48.6158	42.9297
11/30/2010	34.629	30.7139	27.7363	47.7527	54.8109	51.0612	49.2967	52.936	58.1745	51.1805	49.1655	43.4084
12/1/2010	34.8422	30.8714	27.8514	47.7053	54.8639	51.0609	49.7187	53.4098	58.7228	51.5466	49.5618	43.7242
12/2/2010	34.0177	30.184	27.2682	46.2209	53.1324	49.4606	48.0567	51.6205	56.7502	51.0265	49.0662	43.3005
12/3/2010	34.7572	30.8771	27.926	48.4743	55.4695	51.7533	48.365	51.9719	57.1636	51.2596	49.2947	43.5158
12/6/2010	35.435	31.5585	28.6101	49.0849	56.0736	52.3608	49.1941	52.7976	57.9846	52.5769	50.5994	44.7834
12/7/2010	35.3637	31.5009	28.563	49.0739	56.0378	52.3383	49.1827	52.7735	57.942	52.1425	50.1922	44.4559
12/8/2010	35.5686	31.7189	28.791	49.3948	56.335	52.648	49.449	53.0275	58.1785	52.3505	50.4074	44.6923
12/9/2010	34.7445	30.8779	27.9372	48.6314	55.602	51.8989	48.7403	52.3345	57.5081	51.9171	49.9536	44.1786
12/10/2010	34.9552	31.0712	28.1173	48.9591	55.9611	52.2413	49.0685	52.6789	57.8757	51.4396	49.4985	43.7893
12/13/2010	34.8422	30.9155	27.9291	49.3874	56.4665	52.7057	49.4427	53.0929	58.3469	52.0715	50.089	44.2579
12/14/2010	34.8632	30.9341	27.9459	49.3618	56.4451	52.6821	49.5278	53.1802	58.4373	51.9862	50.0024	44.1678
12/15/2010	34.2947	30.4298	27.4902	48.557	55.5248	51.8232	48.7203	52.3131	57.4845	51.4502	49.4869	43.7125
12/16/2010	33.7225	29.8166	26.846	48.5208	55.5623	51.8215	48.4658	52.0966	57.3227	51.0422	49.0678	43.261

Mid-Columbia Heavy Load and Light Load Daily Forward Curves
 April 2013 - March 2014

Idaho Power/102
 Wright/2

MidC HL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
12/17/2010	33.948	29.9901	26.98	48.72	55.8553	52.0647	48.6643	52.3434	57.6391	51.6809	49.6705	43.7573
12/20/2010	34.4268	30.4908	27.4971	49.2842	56.3802	52.6104	49.1733	52.8322	58.0988	52.2365	50.2342	44.3451
12/21/2010	35.0212	30.9715	27.8914	50.0791	57.3799	53.5014	49.908	53.6725	59.0911	52.4425	50.4094	44.4296
12/22/2010	35.2963	31.2478	28.1686	49.4947	56.7934	52.916	51.4904	55.2539	60.6709	53.1786	51.1471	45.172
12/23/2010	34.7254	30.7869	27.7914	48.7043	55.8046	52.0326	50.4239	54.085	59.3548	51.6102	49.6319	43.8134
12/27/2010	34.7054	30.7502	27.7421	48.7436	55.8741	52.086	50.4148	54.0914	59.3836	52.1299	50.1226	44.2189
12/28/2010	35.2979	31.3072	28.272	49.743	56.9375	53.1154	51.1482	54.8578	60.1975	52.2549	50.2519	44.3607
12/29/2010	35.7915	31.8147	28.79	51.5868	58.7563	54.9475	52.1469	55.8437	61.1648	54.7548	52.6909	46.6205
12/30/2010	35.8307	31.8743	28.8652	51.0992	58.2319	54.4426	52.2694	55.9472	61.241	53.3082	51.3143	45.4498
12/31/2010	35.9225	31.9621	28.95	52.0988	59.2387	55.4457	52.8798	56.5613	61.8604	53.8009	51.8061	45.939
1/3/2011	35.8557	31.8965	28.8853	52.4174	59.555	55.7632	53.1423	56.8227	62.1201	54.2984	52.3047	46.4409
1/4/2011	35.1564	31.2131	28.214	51.485	58.5941	54.8174	52.4847	56.1503	61.4266	54.396	52.3792	46.4472
1/5/2011	34.711	30.6709	27.5981	51.0422	58.3258	54.4564	52.4648	56.2204	61.6262	54.024	51.9671	45.9173
1/6/2011	34.8382	30.8097	27.7457	50.6118	57.8745	54.0162	52.1438	55.8886	61.2789	53.6443	51.5926	45.5584
1/7/2011	34.6129	30.5576	27.4733	50.5485	57.8595	53.9755	51.9764	55.7461	61.1723	54.2301	52.1607	46.0743
1/10/2011	34.5984	30.5246	27.4262	50.4918	57.8361	53.9344	52.041	55.8279	61.2787	54.2325	52.1537	46.0395
1/11/2011	35.0045	30.9302	27.8315	50.8426	58.1879	54.2857	52.1625	55.9499	61.4014	54.3442	52.2658	46.1528
1/12/2011	34.9273	30.8419	27.7347	50.8086	58.1738	54.2611	52.2471	56.0448	61.5112	55.0681	52.9573	46.7489
1/13/2011	33.2489	29.268	26.2403	48.4997	55.6765	51.8638	49.9575	53.658	58.9846	51.5096	49.5194	43.6661
1/14/2011	32.4977	28.6198	25.6705	47.5176	54.5087	50.7947	48.8285	52.4333	57.622	52.0209	50.0178	44.1264
1/18/2011	32.1838	28.3043	25.3536	46.5545	53.5486	49.833	48.4123	52.0186	57.2096	51.1878	49.2034	43.3667
1/19/2011	32.2665	28.4609	25.5666	45.827	52.6876	49.0429	48.1317	51.6692	56.7611	51.9663	49.9877	44.1685
1/20/2011	32.0821	28.2983	25.4205	45.5651	52.3865	48.7626	47.8567	51.374	56.4368	51.6928	49.7247	43.936
1/21/2011	32.4508	28.6236	25.7127	46.0888	52.9887	49.3231	48.4067	51.9645	57.0855	51.6928	49.7247	43.936
1/24/2011	32.1505	28.3333	25.4301	45.914	52.7957	49.1398	48.2258	51.7742	56.8817	51.3462	49.3825	43.6068
1/25/2011	32.3627	28.5267	25.6092	49.2194	56.1349	52.4611	48.2469	51.8127	56.9454	51.125	49.1542	43.3577
1/26/2011	32.578	28.7736	25.8802	49.1349	55.9934	52.3498	47.9561	51.4925	56.5828	50.6171	48.6725	42.953
1/27/2011	32.8966	29.0424	26.111	48.8564	55.8048	52.1134	48.1507	51.7335	56.8905	50.6188	48.6383	42.8134
1/28/2011	33.5318	29.6607	26.7164	48.9074	55.8864	52.1788	48.1986	51.7971	56.9769	50.0853	48.1279	42.371
1/31/2011	33.7261	29.8451	26.8934	49.1406	56.1373	52.4203	48.4847	52.0923	57.2852	50.3705	48.4087	42.6389
2/1/2011	33.7207	29.815	26.8445	48.9032	55.9444	52.2037	48.2431	51.8737	57.0996	49.8347	47.8599	42.0516
2/2/2011	34.206	30.2952	27.3208	49.1884	56.2389	52.4933	48.7477	52.3831	57.6159	50.5691	48.5928	42.7803
2/3/2011	34.4354	30.4729	27.4591	49.337	56.4808	52.6857	49.2254	52.9089	58.211	51.2217	49.199	43.2499
2/4/2011	34.2543	30.3568	27.3925	48.6917	55.7182	51.9854	48.5819	52.2049	57.4199	50.1799	48.2098	42.4154
2/7/2011	34.4878	30.4472	27.374	49.1707	56.4553	52.5854	49.1707	52.9268	58.3333	50.8518	48.8105	42.8068
2/8/2011	34.2899	30.2187	27.1222	49.1985	56.5381	52.6389	49.2558	53.0403	58.4877	50.9338	48.8771	42.828
2/9/2011	34.3708	30.3238	27.2459	49.0767	56.3727	52.4967	49.3047	53.0667	58.4817	50.6308	48.5863	43.4751
2/10/2011	33.9474	29.9436	26.8985	48.5526	55.7707	51.9361	48.891	52.6128	57.9699	50	47.9762	42.9167
2/11/2011	34.2432	30.2046	27.1329	48.6914	55.9723	52.1043	49.374	53.1282	58.5321	50.061	48.0201	42.918
2/14/2011	34.0771	30.0379	26.9659	48.2996	55.5815	51.713	49.0392	52.7939	58.1985	49.9621	47.9204	42.8161
2/15/2011	34.0771	30.0379	26.9659	48.2996	55.5815	51.713	49.0392	52.7939	58.1985	49.9621	47.9204	42.8161
2/16/2011	34.0724	30.0472	26.9858	48.2457	55.5024	51.6472	48.9827	52.7244	58.1102	50.0882	48.0535	42.9669
2/17/2011	34.0463	29.9905	26.9057	48.3275	55.6395	51.755	49.0701	52.8404	58.2672	50.7153	48.6328	43.4265
2/18/2011	34.0463	29.9905	26.9057	48.3275	55.6395	51.755	49.0701	52.8404	58.2672	50.9781	48.8848	43.6515
2/22/2011	34.0463	29.9905	26.9057	48.3275	55.6395	51.755	49.0701	52.8404	58.2672	50.9781	48.8848	43.6515
2/23/2011	33.7952	29.7283	26.6352	48.0006	55.3325	51.4374	48.8598	52.6403	58.0819	51.2928	49.1712	43.8672
2/24/2011	33.6432	29.5808	26.4912	47.7756	55.0993	51.2086	48.5767	52.3529	57.7885	50.9476	48.8274	43.5268
2/25/2011	33.6432	29.5808	26.4912	47.7756	55.0993	51.2086	48.5767	52.3529	57.7885	50.9476	48.8274	43.5268
2/28/2011	33.6955	29.6129	26.5079	48.0132	55.3733	51.4632	49.0482	52.8432	58.3058	51.1773	49.0475	43.7231
3/1/2011	32.7375	28.7438	25.7063	46.6875	53.8875	50.0625	47.7	51.4125	56.7563	50.2138	48.5379	42.8276
3/2/2011	33.2235	29.1282	26.0135	46.3168	53.6998	49.7776	48.797	52.6039	58.0835	50.2017	48.5116	42.7528
3/3/2011	34.7017	28.7938	25.6965	46.0587	53.4005	49.5002	48.0662	51.8519	57.3009	50.2071	48.5169	42.7575
3/4/2011	34.9893	27.7756	24.7652	46.2927	53.5632	49.7008	47.8263	51.5752	56.9713	49.8052	48.1306	42.4244
3/7/2011	35.3915	28.0949	25.0498	46.8248	54.1789	50.272	48.3761	52.168	57.6261	50.5916	48.8905	43.0942

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MidC HL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
3/8/2011	34.7962	27.5039	24.4607	46.3375	53.6872	49.7826	47.8878	51.6775	57.1323	50.1714	48.4696	42.6709
3/9/2011	34.7962	27.5039	24.4607	46.3375	53.6872	49.7826	47.8878	51.6775	57.1323	50.1714	48.4696	42.6709
3/10/2011	33.9701	26.851	23.88	45.2374	52.4126	48.6008	46.7509	50.4506	55.776	48.9849	46.9109	41.2986
3/11/2011	34.5584	27.3516	24.3441	46.0211	53.2846	49.4259	47.61	51.3552	56.7461	50.2941	48.1752	42.4415
3/14/2011	34.5354	27.2978	24.2774	45.9902	53.2848	49.4096	47.6429	51.4042	56.8182	50.3217	48.1937	42.4355
3/15/2011	35.3227	27.9565	24.8825	47.0969	54.521	50.577	48.7209	52.549	58.0591	51.366	49.2046	43.356
3/16/2011	34.923	27.5921	24.5327	46.5256	53.9142	49.989	48.1996	52.0093	57.4931	51.1201	48.9556	43.0987
3/17/2011	36.0247	28.6454	25.5659	47.7036	55.141	51.1899	49.3306	53.1654	58.6853	51.6693	49.4951	43.612
3/18/2011	37.0272	28.5672	22.9464	46.878	54.295	50.3547	48.4425	52.2669	57.7717	50.9697	48.7981	42.9219
3/21/2011	37.2376	28.7295	23.0768	47.1443	54.6035	50.6408	48.7177	52.5639	58.1	51.2324	49.0496	43.1431
3/22/2011	36.2389	27.8805	22.3273	46.601	53.9289	50.036	47.517	51.2955	56.7342	50.4486	48.3231	42.5718
3/23/2011	36.761	28.3617	22.7814	46.7134	54.0771	50.1652	48.2667	52.0636	57.5289	51.0856	48.9518	43.178
3/24/2011	36.4726	28.204	22.7104	45.9306	53.1798	49.3286	47.8561	51.594	56.9743	50.5251	48.4225	42.733
3/25/2011	38.2589	29.8466	24.2575	47.8813	55.2565	51.3384	49.2065	53.0093	58.4831	51.9572	49.8467	44.1357
3/28/2011	38.1556	29.9149	24.4399	47.2993	54.5241	50.6859	48.5411	52.2663	57.6284	51.5077	49.4278	43.7999
3/29/2011	37.3601	29.133	23.667	46.5451	53.758	49.9261	47.8975	51.6166	56.9699	50.6955	48.6163	42.9903
3/30/2011	37.0877	28.7444	23.2012	46.974	54.2886	50.4027	48.3455	52.1171	57.546	51.1408	49.0331	43.3302
3/31/2011	38.4282	30.0292	24.4491	47.8627	55.2262	51.3143	49.2434	53.0402	58.5052	52.0161	49.8981	44.167
4/1/2011	38.7096	30.3492	24.7948	48.1007	55.4303	51.5364	49.475	53.2543	58.6943	53.3119	51.1617	45.3436
4/4/2011	37.9522	29.682	24.1875	48.2616	55.5122	51.6603	49.2812	53.0198	58.4011	53.0774	50.9493	45.1909
4/5/2011	37.9155	29.6037	24.0815	48.2768	55.5638	51.6926	49.3015	53.0589	58.4673	52.031	49.935	44.2634
4/6/2011	37.7426	29.3553	23.783	48.1404	55.4936	51.5872	48.6	52.3915	57.8489	52.0899	49.9739	44.2484
4/7/2011	38.2533	29.8168	24.2117	47.9611	55.3575	51.4281	48.77	52.5838	58.0733	52.624	50.4965	44.7398
4/8/2011	38.0889	29.5598	23.8932	48.2537	55.7313	51.7588	49.1884	53.044	58.5938	52.3285	50.1666	44.3171
4/11/2011	38.1491	29.8111	24.2715	47.515	54.8251	50.9416	47.9148	51.684	57.1094	52.5279	50.4018	44.6487
4/12/2011	38.2474	29.8628	24.2922	47.7805	55.1313	51.2262	48.1825	51.9728	57.4285	53.1903	51.0424	45.2307
4/13/2011	38.6658	30.2149	24.6003	48.2744	55.6834	51.7474	48.5638	52.3841	57.883	53.457	50.4659	44.4839
4/14/2011	38.4737	30.152	24.6232	48.0494	55.3452	51.4693	48.2774	52.0393	57.4541	53.1051	50.1583	44.2647
4/15/2011	30.45	30.45	30.45	51.6	51.6	51.6	52.85	52.85	52.85	49.75	49.75	49.75
4/18/2011	30.3	30.3	30.3	51.4	51.4	51.4	52.6	52.6	52.6	49.55	49.55	49.55
4/19/2011	38.1101	29.867	24.3905	47.7647	54.9915	51.1522	48.3293	52.0556	57.4192	51.8949	49.409	43.6912
4/20/2011	30.5	30.5	30.5	51.75	51.75	51.75	52.95	52.95	52.95	50.25	50.25	50.25
4/21/2011	38.5883	30.3516	24.8793	48.5174	55.7386	51.9023	48.7995	52.5229	57.8824	53.2519	50.1195	45.2328
4/25/2011	30.2	30.2	30.2	51.2	51.2	51.2	52.4	52.4	52.4	50.25	50.25	50.25
4/26/2011	30.7	30.7	30.7	51.3	51.3	51.3	52.2	52.2	52.2	49.85	49.85	49.85
4/27/2011	30.9	30.9	30.9	51.5	51.5	51.5	52.4	52.4	52.4	50.05	50.05	50.05
4/28/2011	39.4083	31.1297	25.6296	49.2746	56.5325	52.6767	49.2746	53.0169	58.4037	54.1904	50.9843	46.3322
4/29/2011	39.6346	31.2115	25.6154	49.5	56.8846	52.9615	50.3077	54.1154	59.5962	54.6309	51.6278	46.7717
5/2/2011	39.6769	31.3058	25.7441	49.4815	56.8206	52.9217	50.2842	54.0684	59.5154	54.6116	51.627	46.8009
5/3/2011	39.5615	31.2508	25.7292	49.4092	56.6954	52.8246	50.0923	53.8492	59.2569	54.4569	51.4634	46.6228
5/4/2011	38.5346	30.3333	24.8846	49.0951	56.2852	52.4654	48.8142	52.5216	57.858	54.0852	51.1259	46.3407
5/5/2011	37.751	29.5	24.0182	47.2452	54.4789	50.636	47.6973	51.4272	56.796	52.8097	49.8084	45.9132
5/6/2011	37.5576	29.2241	23.6875	47.2609	54.5669	50.6856	47.7746	51.5418	56.9642	52.6859	49.6698	45.7552
5/9/2011	37.5758	29.251	23.7201	47.041	54.3395	50.4622	47.6112	51.3745	56.7914	52.6004	48.6233	44.8387
5/10/2011	37.8958	29.5128	23.9432	47.2549	54.6043	50.6999	47.6568	51.4464	56.9011	52.7971	48.8149	45.0253
5/11/2011	37.9368	29.57	24.0113	47.2204	54.5556	50.6588	47.6788	51.461	56.9051	52.7587	48.7842	45.0019
5/12/2011	38.4646	30.0197	24.4091	47.6614	55.0651	51.1318	48.6447	52.4622	57.9571	52.5365	48.5497	44.7557
5/13/2011	38.2426	29.8842	24.331	47.6888	55.0167	51.1238	48.7193	52.4978	57.9365	52.6353	48.6892	44.9341
5/16/2011	38.4979	30.1462	24.5975	47.9364	55.2585	51.3686	48.9661	52.7415	58.1758	52.3525	48.4513	44.7388
5/17/2011	37.9104	29.5747	24.0366	47.4451	54.7531	50.8707	48.2444	52.0126	57.4365	52.18	48.2823	44.5731
5/18/2011	38.2996	29.9036	24.3254	47.1557	54.5166	50.6061	48.6509	52.4463	57.9095	52.988	49.0441	45.2911
5/19/2011	37.6856	29.2982	23.7258	46.1878	53.5411	49.6346	47.8538	51.6453	57.1028	52.6519	48.6855	44.9109
5/20/2011	38.0608	29.6794	24.1109	46.6145	53.9626	50.0589	48.2219	52.0108	57.4644	53.5124	49.5532	45.7856
5/23/2011	38.7321	30.3046	24.7054	47.2174	54.6059	50.6808	49.1222	52.932	58.4156	54.6283	50.6342	46.8334

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MidC HL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
5/24/2011	38.5448	30.2077	24.6687	46.5392	53.8485	49.9654	48.4236	52.1925	57.6173	53.8976	49.9616	46.2161
5/25/2011	38.7868	30.4222	24.8648	46.1202	53.4536	49.5578	48.0682	51.8495	57.2922	54.0759	50.7638	47.0059
5/26/2011	39.0064	30.6068	25.0262	46.428	53.7921	49.8799	48.3841	52.1812	57.6467	53.1505	49.8246	46.051
5/27/2011	39.2354	30.9093	25.3775	46.6491	53.9487	50.0708	48.588	52.3519	57.7696	53.4798	50.1848	46.4463
5/31/2011	39.5985	31.2919	25.7732	46.4827	53.7652	49.8964	48.4171	52.1722	57.5771	54.7965	51.4948	47.7485
6/1/2011	38.9377	30.7106	25.2447	46.8267	54.0394	50.2077	48.1791	51.8982	57.2514	54.3033	51.0313	47.3188
6/2/2011	39.0778	30.9273	25.5123	46.8376	53.9833	50.1871	47.7866	51.4711	56.7745	54.2748	51.0493	47.3896
6/3/2011	38.559	30.4588	25.0772	46.0488	53.1503	49.3777	47.3804	51.0421	56.3127	52.9091	49.7648	46.1972
6/6/2011	39.4625	31.3248	25.9182	47.0986	54.2331	50.4429	47.879	51.5577	56.8528	52.9034	49.7808	46.2379
6/7/2011	39.8154	31.6853	26.2837	47.4444	54.5722	50.7855	48.1126	51.7879	57.078	52.953	49.8346	46.2964
6/8/2011	39.3453	31.2317	26.9526	48.348	55.4613	51.6824	48.2369	51.9046	57.184	53.0039	49.8931	46.3635
6/9/2011	39.0108	30.9205	26.6537	47.7106	55.0251	51.0354	47.1565	50.8138	56.078	51.6911	48.6015	45.096
6/10/2011	32.45	32.45	32.45	51	51	51	53.25	53.25	53.25	49.75	49.75	49.75
6/13/2011	39.5792	31.4289	27.1305	47.6179	54.9866	50.9673	47.3387	51.0231	56.3264	51.7868	48.6915	45.1795
6/14/2011	39.2364	31.2133	26.9819	47.2046	54.4584	50.5017	46.8199	50.4468	55.6673	51.0141	47.965	44.5054
6/15/2011	39.4072	31.3491	27.0993	47.7964	55.0818	51.1079	47.0237	50.6664	55.9096	51.0417	47.9804	44.507
6/16/2011	38.7423	30.753	26.5395	46.622	53.8452	49.9053	45.8559	49.4675	54.666	50.0346	46.9951	43.5465
6/17/2011	38.7943	30.7375	26.4883	46.6304	53.9147	49.9415	46.0234	49.6656	54.908	49.8098	46.7446	43.2667
6/20/2011	39.0463	31.062	26.8512	46.2649	53.4836	49.5461	46.2649	49.8743	55.0695	49.9171	46.8634	43.3985
6/21/2011	39.7919	31.6893	27.4159	46.5627	53.8884	49.8925	46.4517	50.1145	55.3868	51.0031	47.8903	44.3583
6/22/2011	39.5783	31.3936	27.077	45.8571	53.8736	49.8373	46.3616	50.0615	55.3872	50.5731	47.4879	43.9187
6/23/2011	39.5614	31.2386	26.8493	46.0029	54.1546	50.0502	46.687	49.9932	55.4087	50.7053	47.5517	43.9034
6/24/2011	39.5309	31.2977	26.9555	45.0574	53.1214	49.0612	46.4108	49.6815	55.0388	50.9782	47.8571	44.2464
6/27/2011	40.0076	31.7575	27.4063	45.6584	53.739	49.6705	46.9581	50.2356	55.6038	51.6102	48.4692	44.8356
6/28/2011	40.1297	31.8544	27.49	45.7978	53.9031	49.8221	46.818	50.1055	55.4901	51.9632	48.8232	45.1907
6/29/2011	39.6841	31.4541	27.1137	45.4338	53.4946	49.436	46.5048	49.7742	55.1293	51.4701	48.3451	44.7299
6/30/2011	39.9021	31.9673	27.5718	45.3822	53.5453	49.4352	47.1518	50.4627	55.8857	50.5851	47.404	43.724
7/1/2011	39.3383	32.0012	26.8088	44.9258	52.9967	48.933	46.6754	49.9489	55.3107	50.4375	48.4251	43.8341
7/5/2011	37.9055	32.0017	26.9256	44.0299	51.7545	48.6647	46.0163	49.2164	54.4581	49.2729	47.302	42.9906
7/6/2011	38.6132	32.8355	27.5727	44.9057	52.9144	49.7109	47.3655	50.6834	56.1179	49.6268	47.8521	43.5423
7/7/2011	38.7185	32.8992	27.5984	45.5749	52.4313	48.5133	47.4186	50.7604	56.234	49.6008	47.8226	43.5039
7/8/2011	39.1408	33.3101	28.3453	46.1838	52.5341	49.763	47.7425	51.0908	56.5751	50.0912	48.3114	43.9888
7/11/2011	39.324	33.5089	28.9604	46.8088	53.2573	50.4937	48.5937	51.2421	56.9421	50.603	48.8297	44.5231
7/12/2011	38.6649	32.8049	29.3578	47.3401	53.2002	49.9254	48.7189	50.0978	55.9004	50.4521	48.4391	44.5388
7/13/2011	32.9918	29.5492	47.6803	53.5328	50.2623	49.4016	51.2377	55.7705	51.3525	47.6434	43.832	41.6189
7/14/2011	39.0639	33.1346	29.6467	47.8417	53.771	50.4576	49.5275	51.3876	55.98	49.7202	47.9133	44.0503
7/15/2011	39.0235	33.1699	29.7267	47.8037	53.6573	50.3862	49.6401	51.247	55.7806	49.8224	48.0387	44.2251
7/18/2011	41.5644	39.9299	33.7419	30.356	48.0443	54.4657	51.8388	50.2042	52.3642	53.95	50.4031	48.5985
7/19/2011	39.0974	33.1266	29.7967	47.4795	53.7948	51.2112	49.3741	51.4409	56.0338	49.3417	47.6888	43.3424
7/20/2011	38.4125	32.5559	29.2257	47.14	53.2263	50.8722	49.1496	51.2167	55.8101	50.8147	47.5717	43.0792
7/21/2011	37.3093	31.9055	30.0659	46.1049	52.3135	50.3589	48.1744	50.129	54.728	50.0715	46.5744	41.8495
7/22/2011	36.8314	31.4637	29.6364	46.3676	52.5347	50.5932	47.6238	49.5653	54.1336	49.7366	46.4014	41.7064
7/25/2011	36.6312	31.2927	29.4753	46.0587	52.1923	50.2614	47.365	49.2959	53.8393	49.2959	46.2872	41.616
7/26/2011	36.6738	31.3612	29.4761	45.6994	52.4972	50.7835	47.1847	49.1269	53.6969	49.3554	46.2525	41.493
7/27/2011	36.5049	31.2168	29.3404	45.2616	51.9712	50.1516	46.9674	48.9007	53.4496	49.1281	46.9174	42.6973
7/28/2011	36.3232	31.0284	28.6942	43.9522	51.3534	49.2469	47.0835	48.6776	53.2322	48.6207	46.4	41.8595
7/29/2011	36.0766	30.6998	27.9825	43.7082	51.2242	49.085	46.8303	48.4491	53.0743	48.4491	46.2575	41.6444
8/1/2011	36.2227	30.1662	28.1862	44.0846	51.3641	49.5005	47.2293	48.7434	53.4606	47.4452	46.6173	41.5862
8/2/2011	36.1004	30.3758	27.9808	44.1033	51.4636	49.5943	47.0824	48.6596	54.4427	47.1439	46.3135	41.2669
8/3/2011	35.4178	29.7923	27.4387	43.6838	51.0888	49.0797	46.4392	47.7021	53.385	46.9572	46.1221	41.1759
8/4/2011	34.611	28.986	26.6327	42.9911	50.3954	48.3865	45.574	46.8367	52.5191	46.0853	45.2532	40.3247
8/5/2011	34.8814	29.2125	26.8407	43.0378	50.4999	48.4753	45.9301	47.2027	52.9295	46.4165	45.5785	40.6145
8/8/2011	34.8378	29.4108	27.0183	43.1826	50.1851	48.3178	46.217	47.4425	53.1029	46.1741	45.3287	40.3211
8/9/2011	35.0729	29.78	27.2789	42.8087	49.4975	47.9271	46.2985	47.52	53.1619	46.7362	44.5322	40.9671

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MidC HL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
8/10/2011	34.7603	29.4795	26.9842	42.5363	49.2098	47.643	45.9601	47.1788	52.8077	46.7226	44.4577	40.8985
8/11/2011	35.059	30.0007	26.6867	42.8498	50.0593	48.3732	46.3964	47.7918	53.0245	47.984	45.1995	41.3141
8/12/2011	34.9779	29.8478	26.5249	43.0228	50.2516	48.561	46.1708	48.2695	53.1664	47.7878	44.9958	41.1001
8/15/2011	31.05	31.05	31.05	46.35	46.35	46.35	47.7	47.7	47.7	45.6	45.6	45.6
8/16/2011	30.65	30.65	30.65	45.8	45.8	45.8	47.1	47.1	47.1	45.15	45.15	45.15
8/17/2011	30.7	30.7	30.7	45.9	45.9	45.9	47.25	47.25	47.25	45.25	45.25	45.25
8/18/2011	30.7	30.7	30.7	45.95	45.95	45.95	47.3	47.3	47.3	45.25	45.25	45.25
8/19/2011	34.2922	29.1836	25.8366	42.4542	50.029	48.561	46.271	48.0325	53.6109	47.1227	44.9749	40.6141
8/22/2011	33.9924	29.3624	25.9046	42.1389	49.7579	48.4685	46.5345	48.1169	52.3366	46.6058	44.4608	40.2357
8/23/2011	34.2758	29.6232	26.1485	42.4619	50.118	48.8224	46.7611	48.3512	52.5915	46.8051	44.6509	40.2772
8/24/2011	33.6656	29.0402	25.5858	41.5697	49.181	47.6002	45.6681	48.0101	51.7572	46.0302	44.2748	39.5287
8/25/2011	34.0182	29.4941	26.0277	41.8323	49.4703	47.8839	45.8276	48.1777	51.9379	46.0977	44.5328	39.5775
8/26/2011	33.8261	29.3199	25.867	42.0193	49.6272	47.696	45.6477	47.6374	51.9681	46.4363	44.8776	40.0716
8/29/2011	33.8766	29.3714	25.9194	42.0093	49.6154	47.6846	45.6953	47.6846	52.0143	46.6803	45.1134	40.021
8/30/2011	34.6556	30.1096	26.3902	42.7438	50.4778	48.7657	46.3452	48.3525	52.7213	47.2201	45.6505	40.5491
8/31/2011	36.1082	31.3717	27.4963	44.5355	52.5937	50.8098	48.2878	50.3792	54.9312	48.7516	47.131	41.8642
9/1/2011	34.8633	31.0091	26.3373	44.2069	51.3898	49.1707	46.426	48.8203	53.7841	50.6306	46.1238	41.5437
9/2/2011	34.4443	30.4927	25.7743	43.6452	50.8997	48.6585	46.1813	48.5995	53.5538	49.2483	45.7227	41.0917
9/6/2011	34.2559	30.4169	25.6329	43.7058	50.9705	48.7261	46.2455	48.6671	53.6283	49.4349	45.5427	40.6051
9/7/2011	34.6929	29.7958	25.1936	43.2481	50.9183	48.4402	46.0802	48.3812	53.3374	49.0893	45.3907	40.2607
9/8/2011	34.6188	28.82	24.9928	42.5051	50.0435	47.6081	45.2885	47.2021	52.4211	48.014	44.6846	39.6344
9/9/2011	33.8439	28.184	24.1989	41.0631	48.1668	46.492	44.5861	46.4342	50.8813	47.5893	43.3939	38.9907
9/12/2011	33.3277	27.5795	23.8636	40.4693	47.4949	45.6949	44.0692	46.2756	50.7463	47.0304	43.3264	38.8443
9/13/2011	33.4059	27.5542	23.9182	40.1666	47.041	45.2798	43.5754	45.7343	50.3929	46.1888	43.6308	38.9242
9/14/2011	33.3229	26.9039	23.3874	40.1884	47.1098	45.3794	43.0909	45.1561	50.0122	45.9934	43.583	38.7057
9/15/2011	33.7719	27.2555	23.1757	40.4583	47.4847	45.7281	43.2915	45.3881	50.3179	46.0114	43.5246	38.9829
9/16/2011	34.421	28.0144	23.588	41.3518	48.5738	46.7683	44.7881	46.6519	51.7189	47.0596	44.8063	40.1241
9/19/2011	34.3161	28.0452	23.5742	40.8194	48.0194	46.2194	44.2452	46.1032	52.0258	46.9161	44.6337	39.9627
9/20/2011	34.2826	28.0072	23.533	40.8486	48.0538	46.1363	44.2769	46.0201	52.005	47.066	44.6657	39.9914
9/21/2011	34.6016	28.257	23.7335	41.7686	49.0531	47.1145	44.6472	46.4096	52.4604	47.6432	44.5275	40.1595
9/22/2011	34.7563	28.1697	23.6414	41.4606	48.753	46.8123	44.2835	46.0477	52.1051	47.1651	44.4065	39.7699
9/23/2011	35.0083	28.4295	24.1416	41.2346	48.9294	46.5798	44.2303	45.9924	51.4551	47.2847	44.2879	39.7874
9/26/2011	35.0548	28.4783	24.1919	41.9835	49.3233	46.8571	44.5084	46.3874	51.4372	47.7966	44.1153	40.2055
9/27/2011	35.297	28.7627	24.5037	42.1231	48.8324	46.8488	44.0484	46.207	51.4578	47.7239	44.286	40.2718
9/28/2011	35.5373	29.266	25.0852	42.1669	49.2147	47.7215	44.0782	47.1243	52.201	48.8563	43.9393	40.2068
Average HL	35.58	30.19	26.68	46.80	53.67	50.45	48.20	51.12	56.29	50.94	48.52	43.67
Max HL	41.56	39.93	47.68	53.53	59.56	55.76	53.25	56.82	62.12	55.07	52.96	50.25
Min HL	30.20	26.85	22.33	30.36	45.80	45.28	43.09	45.16	47.10	45.15	43.33	38.71
Spread	11.36	13.08	25.35	23.18	13.76	10.48	10.16	11.67	15.02	9.92	9.63	11.54

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MidC LL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
10/1/2010	27.751	15.1369	9.96513	28.4448	36.6439	38.1576	41.3712	42.7736	45.5784	42.1582	40.3394	35.9222
10/4/2010	27.5981	14.8212	9.58267	28.6202	36.7975	38.3307	41.9296	43.351	46.1937	41.9074	40.789	36.118
10/5/2010	27.0276	14.5485	9.40634	28.7207	37.9389	38.6287	41.6381	43.0495	45.8724	42.044	40.3002	35.6502
10/6/2010	27.2195	14.8244	9.71681	28.0293	38.1821	38.8672	42.6572	44.1032	46.9952	42.5741	40.902	35.8857
10/7/2010	27.5714	14.1359	8.85086	27.7624	38.1415	38.8419	42.8158	44.2672	47.1699	42.7379	40.5681	35.8998
10/8/2010	28.1037	14.3062	9.09238	28.0401	38.4042	39.1036	42.8633	44.3163	47.2223	42.9144	41.3982	36.5201
10/11/2010	28.1007	14.3047	9.09141	28.1643	38.5272	39.2266	43.0412	44.5002	47.4183	43.1667	41.7168	36.84
10/12/2010	27.0343	14.4098	9.37274	28.6921	38.3836	39.085	43.0437	44.5028	47.421	43.0955	41.7075	36.7502
10/13/2010	26.7193	14.416	9.38281	28.2106	37.6555	38.339	42.6024	44.0466	46.9349	41.8362	40.9365	36.0524
10/14/2010	27.7147	14.1037	8.93029	27.7763	37.1993	39.1085	39.6628	42.2495	48.901	41.4127	40.8393	36.2521
10/15/2010	27.5698	14.0057	8.89551	27.5698	37.7901	39.2412	39.4304	42.5849	50.5341	41.563	41.2367	36.7346
10/18/2010	27.4833	14.1849	9.24553	27.8632	37.8687	39.0719	40.4017	43.0614	50.977	41.6453	41.1215	36.6034
10/19/2010	26.8294	14.4224	9.25803	27.7111	37.5989	38.7956	40.2441	42.8892	50.7617	41.365	40.2576	35.7628
10/20/2010	27.0642	14.2342	8.5533	27.7025	37.7239	38.9367	40.5963	43.2771	51.1283	41.4377	40.2518	36.6944
10/21/2010	26.1997	14.0379	8.02163	27.3641	37.003	38.2321	39.5259	43.2133	50.3293	40.9661	40.029	36.2135
10/22/2010	25.9102	13.5751	8.09285	27.0197	36.8747	38.18	39.8116	43.0096	50.3845	39.9894	39.5841	35.6662
10/25/2010	25.7337	13.3579	8.64338	26.8469	36.7344	38.044	39.0916	42.3002	49.6994	39.6441	39.0353	35.2467
10/26/2010	26.3014	14.2438	9.27506	27.6264	37.6302	38.9552	40.479	43.7253	51.2116	41.2478	40.5626	35.8349
10/27/2010	25.9856	14.3708	9.38367	27.4292	37.3378	39.3064	40.6188	43.8342	51.2493	40.5055	40.0991	35.6286
10/28/2010	26.0975	14.5782	9.63201	26.7484	38.0725	38.3979	41.2614	44.4504	51.8046	42.1437	40.8522	36.026
10/29/2010	26.5632	14.878	9.51423	26.7548	38.2485	38.5039	40.6749	44.0592	52.4879	41.1859	40.0763	35.181
11/1/2010	25.51	13.6915	8.71861	26.3496	37.7807	37.8452	39.9765	43.3993	51.9242	40.5207	39.6557	34.5989
11/2/2010	25.5456	13.9753	8.84022	26.6507	38.156	38.546	40.366	43.6811	52.2613	40.972	40.1017	35.0806
11/3/2010	25.6486	13.9843	8.95768	26.5508	37.8929	39.1173	40.7929	44.0795	52.5861	40.8823	39.8868	34.9756
11/4/2010	25.9322	14.1917	9.48266	26.3192	37.9952	39.0273	41.2205	44.2524	52.3159	40.3919	39.8682	35.0892
11/5/2010	26.0356	14.3931	9.0197	26.2275	37.742	38.8935	40.8765	44.203	51.2396	41.5117	40.2637	35.8629
11/8/2010	27.0028	14.8674	9.33979	26.6851	38.0581	39.2652	40.9807	44.2846	51.2735	42.2596	41.0857	36.5858
11/9/2010	27.4317	15.2609	9.71146	26.8642	38.3413	39.6656	41.1791	44.4583	51.3951	42.7094	41.6093	37.2737
11/10/2010	27.2546	14.7682	9.82435	26.4941	37.903	39.0439	41.3257	44.8751	51.7204	41.6516	40.5504	36.3399
11/11/2010	26.8547	14.2804	9.47813	26.6651	37.9125	38.5444	40.9455	43.9785	51.0555	41.82	40.6438	36.1351
11/12/2010	26.0293	14.0258	9.13309	27.1383	38.2937	39.0766	40.8379	43.9693	51.2758	42.0821	40.9996	35.7901
11/15/2010	26.3004	14.3636	9.31336	27.6121	37.7126	38.9587	40.9263	44.0745	51.4202	41.6939	40.6737	36.1846
11/16/2010	25.9545	14.4482	9.34884	27.3927	37.4607	38.7029	40.468	43.6061	50.9283	41.4867	40.6026	36.1819
11/17/2010	26.3082	15.0424	9.21746	27.1403	37.51	38.6621	40.6465	43.7189	50.8881	42.1464	40.7482	35.7545
11/18/2010	26.3385	14.1376	9.61872	27.1777	38.023	39.185	40.7989	44.4139	51.1277	41.6899	41.2871	36.3864
11/19/2010	27.0219	15.0405	9.75081	27.3405	38.1748	39.5131	41.2976	44.6753	51.9406	42.2629	41.7992	36.7648
11/22/2010	27.4487	15.6401	9.92424	27.9512	38.692	40.1995	41.9582	45.2872	52.8246	43.371	42.5849	37.4092
11/23/2010	27.3429	15.6514	9.86857	27.4686	38.4686	39.5371	42.0514	45.32	52.8	42.6387	42.3117	37.08
11/24/2010	26.919	15.0671	9.70849	26.982	38.2666	39.5274	41.7969	45.0751	52.5772	42.9075	41.9234	36.806
11/26/2010	26.919	15.0671	9.70849	26.982	38.2666	39.5274	41.7969	45.0751	52.5772	42.9075	41.9234	36.806
11/29/2010	26.5429	14.4311	8.82615	27.1871	37.5595	38.5902	41.4893	44.8394	52.5059	42.28	41.4784	36.5358
11/30/2010	25.9635	14.2799	8.69776	27.4564	37.9067	38.9452	41.6064	45.1115	52.3813	42.2359	41.4925	37.3027
12/1/2010	26.9923	14.3437	8.73664	27.6443	38.1413	39.1845	41.8576	45.3784	52.6806	42.2768	41.5982	37.5266
12/2/2010	27.8474	14.3437	8.52866	27.6535	38.3144	39.4127	41.8033	44.7755	52.658	42.3328	41.6651	37.3918
12/3/2010	27.8225	14.1372	8.65016	27.6289	38.4738	39.5067	41.8952	44.9937	52.8047	42.0262	41.4926	37.8903
12/6/2010	27.1437	14.1199	8.57508	27.2082	38.6846	40.2964	42.4241	45.7767	53.6426	43.0129	42.4118	38.6047
12/7/2010	27.4282	14.3703	9.51457	27.1001	38.5176	40.9454	42.5859	45.8012	53.8065	42.8113	43.1511	39.4816
12/8/2010	27.6221	14.7111	9.49702	27.4358	38.2985	40.2848	42.3331	44.5677	52.0784	42.7627	42.5055	39.226
12/9/2010	27.4881	14.2158	9.18365	26.7961	37.8669	39.5023	41.9555	44.2199	51.831	42.6391	41.7916	37.8145
12/10/2010	27.6402	14.5111	9.92533	26.6351	37.3142	39.1988	41.4602	43.7217	51.3228	42.98	41.0915	37.7052
12/13/2010	27.6541	14.344	9.23958	26.6203	37.7983	39.6075	42.4504	44.1949	51.9484	42.2779	41.7376	38.4283
12/14/2010	27.075	14.0975	9.68376	26.3504	38.0104	39.9208	42.7535	44.5321	52.4372	41.7275	41.5209	38.1469
12/15/2010	27.075	14.0975	9.68376	26.3504	38.0104	39.9208	42.7535	44.5321	52.4372	41.2612	41.057	37.7207
12/16/2010	27.432	13.4417	8.36676	26.7462	38.1305	40.3936	42.9997	45.3314	52.5323	41.9083	41.1176	38.1703

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MidC LL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
12/17/2010	27.0666	13.2897	8.41916	27.1361	38.6864	40.9825	43.6266	45.5052	53.2982	42.6522	41.4042	38.3209
12/20/2010	27.1843	12.5676	8.60608	27.4575	39.6836	41.5961	44.1233	45.9674	53.6173	42.9032	41.8921	38.714
12/21/2010	25.6833	13.4061	8.39646	27.165	39.9361	41.4178	44.5224	46.1452	53.7655	42.8662	42.4174	39.5746
12/22/2010	25.578	13.7728	8.78367	27.8969	39.5617	41.4589	44.4102	46.0264	53.6155	43.4995	42.7547	39.7753
12/23/2010	25.7916	13.7233	8.89602	27.1708	39.4459	40.6182	43.4457	45.0318	52.4796	41.3518	41.0646	38.0494
12/27/2010	26.0459	13.8259	9.07764	27.5821	40.1511	41.4778	43.852	45.458	52.9995	43.8582	41.717	38.9112
12/28/2010	26.7101	14.5815	8.9942	27.8003	40.1332	41.6322	44.0852	46.8107	53.0113	44.0664	42.7703	39.1701
12/29/2010	28.1426	14.8082	9.40426	29.1953	41.1261	43.1614	44.8457	48.074	55.6536	46.0455	44.4063	40.7555
12/30/2010	29.017	16.1516	9.64903	29.6463	41.5328	43.4206	44.5394	47.7557	55.3071	45.0528	44.2417	40.1862
12/31/2010	29.5026	16.8001	10.3805	29.844	41.9319	43.2295	45.0051	47.8734	55.249	44.8683	43.9871	40.363
1/3/2011	29.764	16.1276	10.7517	30.1573	41.368	43.007	45.3016	47.3339	54.0865	49.8173	46.1119	42.3378
1/4/2011	29.6449	16.0631	10.7087	30.0367	41.2025	42.835	45.1204	47.1446	53.8702	49.3096	45.642	41.9064
1/5/2011	28.7719	15.59	10.3934	29.1521	39.9891	41.5734	43.7915	45.7561	52.2837	47.9135	44.3497	40.7198
1/6/2011	28.7719	15.59	10.3934	29.1521	39.9891	41.5734	43.7915	45.7561	52.2837	47.9135	44.3497	40.7198
1/7/2011	28.7719	15.59	10.3934	29.1521	39.9891	41.5734	43.7915	45.7561	52.2837	48.2308	44.6434	40.9895
1/10/2011	29.0893	15.7621	10.508	29.4738	40.4303	42.0322	44.2747	46.261	52.8606	48.5481	44.9371	41.2592
1/11/2011	29.0893	15.7621	10.508	29.4738	40.4303	42.0322	44.2747	46.261	52.8606	48.5481	44.9371	41.2592
1/12/2011	29.0893	15.7621	10.508	29.4738	40.4303	42.0322	44.2747	46.261	52.8606	48.5481	44.9371	41.2592
1/13/2011	28.6925	15.547	10.3647	29.0717	39.8788	41.4587	43.6707	45.6299	52.1394	47.9135	44.3497	40.7198
1/14/2011	28.5734	15.4825	10.3217	28.951	39.7133	41.2867	43.4895	45.4406	51.9231	47.5962	44.0559	40.4502
1/18/2011	27.7003	15.0094	10.0063	28.0664	38.4998	40.0252	42.1607	44.0521	50.3365	46.3269	42.8811	39.3715
1/19/2011	27.7797	15.0524	10.035	28.1469	38.6101	40.1399	42.2815	44.1783	50.4808	46.6442	43.1748	39.6412
1/20/2011	27.2638	14.7729	9.8486	27.6241	37.8931	39.3944	41.4962	43.3579	49.5433	46.0096	42.5874	39.1018
1/21/2011	27.1051	14.6869	9.79126	27.4633	37.6725	39.165	41.2546	43.1054	49.2548	45.6923	42.2937	38.8322
1/24/2011	27.1051	14.6869	9.79126	27.4633	37.6725	39.165	41.2546	43.1054	49.2548	45.6923	42.2937	38.8322
1/25/2011	27.1844	14.7299	9.81993	27.5437	37.7828	39.2797	41.3754	43.2316	49.399	45.8192	42.4112	38.94
1/26/2011	27.3829	14.8374	9.89161	27.7448	38.0586	39.5664	41.6774	43.5472	49.7596	45.6923	42.2937	38.8322
1/27/2011	26.7876	14.5149	9.67657	27.1416	37.2312	38.7063	40.7714	42.6005	48.6779	44.7404	41.4126	38.0232
1/28/2011	26.867	14.5579	9.70524	27.222	37.3415	38.821	40.8922	42.7267	48.8221	44.8673	41.5301	38.131
1/31/2011	27.2638	14.7729	9.8486	27.6241	37.8931	39.3944	41.4962	43.3579	49.5433	46.0096	42.5874	39.1018
2/1/2011	27.1844	14.7299	9.81993	27.5437	37.7828	39.2797	41.3754	43.2316	49.399	46.0096	42.5874	39.1018
2/2/2011	27.5813	14.9449	9.96329	27.9458	38.3344	39.8531	41.9795	43.8628	50.1202	46.3269	42.8811	39.3715
2/3/2011	27.2638	14.7729	9.8486	27.6241	37.8931	39.3944	41.4962	43.3579	49.5433	46.1365	42.7049	39.2097
2/4/2011	27.2638	14.7729	9.8486	27.6241	37.8931	39.3944	41.4962	43.3579	49.5433	46.1365	42.7049	39.2097
2/7/2011	27.1844	14.7299	9.81993	27.5437	37.7828	39.2797	41.3754	43.2316	49.399	46.0096	42.5874	39.1018
2/8/2011	27.3829	14.8374	9.89161	27.7448	38.0586	39.5664	41.6774	43.5472	49.7596	46.0096	42.5874	39.1018
2/9/2011	27.2638	14.7729	9.8486	27.6241	37.8931	39.3944	41.4962	43.3579	49.5433	45.8192	42.4112	38.94
2/10/2011	27.4622	14.8804	9.92028	27.8252	38.1689	39.6811	41.7983	43.6734	49.9038	46.1365	42.7049	39.2097
2/11/2011	27.4622	14.8804	9.92028	27.8252	38.1689	39.6811	41.7983	43.6734	49.9038	46.1365	42.7049	39.2097
2/14/2011	27.3035	14.7944	9.86294	27.6643	37.9483	39.4517	41.5566	43.421	49.6154	45.8827	42.4699	38.994
2/15/2011	27.3035	14.7944	9.86294	27.6643	37.9483	39.4517	41.5566	43.421	49.6154	45.8827	42.4699	38.994
2/16/2011	27.7797	15.0524	10.035	28.1469	38.6101	40.1399	42.2815	44.1783	50.4808	46.6442	43.1748	39.6412
2/17/2011	27.8194	15.074	10.0493	28.1871	38.6653	40.1972	42.3419	44.2414	50.5529	47.025	43.5273	39.9648
2/18/2011	27.7797	15.0524	10.035	28.1469	38.6101	40.1399	42.2815	44.1783	50.4808	46.9615	43.4685	39.9108
2/22/2011	27.5813	14.9449	9.96329	27.9458	38.3344	39.8531	41.9795	43.8628	50.1202	46.6442	43.1748	39.6412
2/23/2011	27.3829	14.8374	9.89161	27.7448	38.0586	39.5664	41.6774	43.5472	49.7596	46.6442	43.1748	39.6412
2/24/2011	26.867	14.5579	9.70524	27.222	37.3415	38.821	40.8922	42.7267	48.8221	46.0096	42.5874	39.1018
2/25/2011	26.986	14.6224	9.74825	27.3427	37.507	38.993	41.0734	42.9161	49.0385	46.3269	42.8811	39.3715
2/28/2011	27.0654	14.6654	9.77692	27.4231	37.6173	39.1077	41.1942	43.0423	49.1827	46.3269	42.8811	39.3715
3/1/2011	26.7876	14.5149	9.67657	27.1416	37.2312	38.7063	40.7714	42.6005	48.6779	46.0096	42.5874	39.1018
3/2/2011	25.7955	13.9773	9.31818	26.1364	35.8523	37.2727	39.2614	41.0227	46.875	44.55	41.2364	37.8614
3/3/2011	25.7955	13.9773	9.31818	26.1364	35.8523	37.2727	39.2614	41.0227	46.875	44.55	41.2364	37.8614
3/4/2011	25.7955	13.9773	9.31818	26.1364	35.8523	37.2727	39.2614	41.0227	46.875	44.55	41.2364	37.8614
3/7/2011	25.7955	13.9773	9.31818	26.1364	35.8523	37.2727	39.2614	41.0227	46.875	44.55	41.2364	37.8614

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MidC LL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
3/8/2011	25.9145	14.0418	9.36119	26.257	36.0177	37.4448	39.4426	41.2121	47.0913	44.8673	41.5301	38.131
3/9/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	44.55	41.2364	37.8614
3/10/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.4712	40.2378	36.9445
3/11/2011	25.3986	13.7622	9.17483	25.7343	35.3007	36.6993	38.6573	40.3916	46.1538	43.9788	40.7077	37.376
3/14/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.7885	40.5315	37.2142
3/15/2011	25.3986	13.7622	9.17483	25.7343	35.3007	36.6993	38.6573	40.3916	46.1538	44.0423	40.7664	37.4299
3/16/2011	25.5573	13.8483	9.23217	25.8951	35.5213	36.9287	38.899	40.6441	46.4423	44.2327	40.9427	37.5917
3/17/2011	25.6367	13.8913	9.26084	25.9755	35.6316	37.0434	39.0198	40.7703	46.5865	44.1692	40.8839	37.5378
3/18/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	44.1058	40.8252	37.4838
3/21/2011	25.1208	13.6117	9.07448	25.4528	34.9146	36.2979	38.2345	39.9498	45.649	43.0269	39.8266	36.567
3/22/2011	25.1605	13.6332	9.08881	25.493	34.9698	36.3552	38.2949	40.0129	45.7212	42.9635	39.7678	36.513
3/23/2011	25.4383	13.7837	9.18916	25.7745	35.3559	36.7566	38.7177	40.4547	46.226	43.2173	40.0028	36.7288
3/24/2011	25.4383	13.7837	9.18916	25.7745	35.3559	36.7566	38.7177	40.4547	46.226	42.9	39.7091	36.4591
3/25/2011	26.1923	14.1923	9.46154	26.5385	36.4038	37.8462	39.8654	41.6538	47.5962	44.4231	41.1189	37.7535
3/28/2011	26.3114	14.2568	9.50455	26.6591	36.5693	38.0182	40.0466	41.8432	47.8125	44.9308	41.5888	38.185
3/29/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	44.4231	41.1189	37.7535
3/30/2011	25.8748	14.0203	9.34685	26.2168	35.9626	37.3874	39.3822	41.149	47.0192	44.2327	40.9427	37.5917
3/31/2011	26.232	14.2138	9.47587	26.5787	36.459	37.9035	39.9258	41.717	47.6683	44.8038	41.4713	38.0771
4/1/2011	26.0733	14.1278	9.41853	26.4178	36.2384	37.6741	39.6842	41.4645	47.3798	44.8673	41.5301	38.131
4/4/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	44.7404	41.4126	38.0232
4/5/2011	26.2717	14.2353	9.49021	26.6189	36.5142	37.9608	39.9862	41.7801	47.7404	45.5654	42.1762	38.7243
4/6/2011	26.2717	14.2353	9.49021	26.6189	36.5142	37.9608	39.9862	41.7801	47.7404	45.375	42	38.5625
4/7/2011	26.2915	14.2461	9.49738	26.639	36.5417	37.9895	40.0164	41.8116	47.7764	45.2481	41.8825	38.4546
4/8/2011	26.1129	14.1493	9.43287	26.458	36.2935	37.7315	39.7446	41.5276	47.4519	45.1212	41.765	38.3468
4/11/2011	25.8351	13.9988	9.33252	26.1766	35.9074	37.3301	39.3218	41.0858	46.9471	45.1212	41.765	38.3468
4/12/2011	25.9145	14.0418	9.36119	26.257	36.0177	37.4448	39.4426	41.2121	47.0913	45.375	42	38.5625
4/13/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	45.5019	42.1175	38.6704
4/14/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	45.5019	42.1175	38.6704
4/15/2011	17.57	17.57	17.57	34.46	34.46	34.46	42.06	42.06	42.06	41.95	41.95	41.95
4/18/2011	17.47	17.47	17.47	34.26	34.26	34.26	41.81	41.81	41.81	41.72	41.72	41.72
4/19/2011	26.1923	14.1923	9.46154	26.5385	36.4038	37.8462	39.8654	41.6538	47.5962	45.8192	42.4112	38.94
4/20/2011	17.63	17.63	17.63	34.57	34.57	34.57	42.19	42.19	42.19	42.51	42.51	42.51
4/21/2011	26.4701	14.3428	9.56189	26.8199	36.7899	38.2476	40.2882	42.0956	48.101	46.0096	42.5874	39.1018
4/25/2011	17.54	17.54	17.54	34.4	34.4	34.4	41.98	41.98	41.98	42.32	42.32	42.32
4/26/2011	17.54	17.54	17.54	34.4	34.4	34.4	41.98	41.98	41.98	42.32	42.32	42.32
4/27/2011	17.75	17.75	17.75	34.6	34.6	34.6	42.2	42.2	42.2	42.57	42.57	42.57
4/28/2011	26.7876	14.5149	9.67657	27.1416	37.2312	38.7063	40.7714	42.6005	48.6779	45.8827	42.4699	38.994
4/29/2011	26.7876	14.5149	9.67657	27.1416	37.2312	38.7063	40.7714	42.6005	48.6779	45.5654	42.1762	38.7243
5/2/2011	26.867	14.5579	9.70524	27.222	37.3415	38.821	40.8922	42.7267	48.8221	45.6923	42.2937	38.8322
5/3/2011	27.1051	14.6869	9.79126	27.4633	37.6725	39.165	41.2546	43.1054	49.2548	46.0731	42.6462	39.1558
5/4/2011	26.7876	14.5149	9.67657	27.1416	37.2312	38.7063	40.7714	42.6005	48.6779	45.8827	42.4699	38.994
5/5/2011	26.5892	14.4073	9.6049	26.9406	36.9554	38.4196	40.4694	42.285	48.3173	45.6923	42.2937	38.8322
5/6/2011	26.5892	14.4073	9.6049	26.9406	36.9554	38.4196	40.4694	42.285	48.3173	45.6923	42.2937	38.8322
5/9/2011	26.3907	14.2998	9.53322	26.7395	36.6796	38.1329	40.1674	41.9694	47.9567	45.6923	42.2937	38.8322
5/10/2011	26.3907	14.2998	9.53322	26.7395	36.6796	38.1329	40.1674	41.9694	47.9567	45.6923	42.2937	38.8322
5/11/2011	26.1923	14.1923	9.46154	26.5385	36.4038	37.8462	39.8654	41.6538	47.5962	45.375	42	38.5625
5/12/2011	26.2717	14.2353	9.49021	26.6189	36.5142	37.9608	39.9862	41.7801	47.7404	45.3115	41.9413	38.5086
5/13/2011	26.5495	14.3858	9.59056	26.9003	36.9003	38.3622	40.409	42.2219	48.2452	45.6288	42.235	38.7782
5/16/2011	26.5892	14.4073	9.6049	26.9406	36.9554	38.4196	40.4694	42.285	48.3173	45.375	42	38.5625
5/17/2011	26.3114	14.2568	9.50455	26.6591	36.5693	38.0182	40.0466	41.8432	47.8125	44.7404	41.4126	38.0232
5/18/2011	26.3907	14.2998	9.53322	26.7395	36.6796	38.1329	40.1674	41.9694	47.9567	44.7404	41.4126	38.0232
5/19/2011	25.8748	14.0203	9.34685	26.2168	35.9626	37.3874	39.3822	41.149	47.0192	44.8673	41.5301	38.131
5/20/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	45.375	42	38.5625
5/23/2011	26.5098	14.3643	9.57622	26.8601	36.8451	38.3049	40.3486	42.1587	48.1731	46.0731	42.6462	39.1558

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MidC LL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
5/24/2011	26.3114	14.2568	9.50455	26.6591	36.5693	38.0182	40.0466	41.8432	47.8125	45.7558	42.3524	38.8861
5/25/2011	25.9939	14.0848	9.38986	26.3374	36.1281	37.5594	39.5634	41.3383	47.2356	45.2481	41.8825	38.4546
5/26/2011	25.8748	14.0203	9.34685	26.2168	35.9626	37.3874	39.3822	41.149	47.0192	44.8673	41.5301	38.131
5/27/2011	25.9542	14.0633	9.37552	26.2972	36.0729	37.5021	39.503	41.2752	47.1635	44.6769	41.3538	37.9692
5/31/2011	26.0336	14.1063	9.4042	26.3776	36.1832	37.6168	39.6238	41.4014	47.3077	44.0423	40.7664	37.4299
6/1/2011	25.8351	13.9988	9.33252	26.1766	35.9074	37.3301	39.3218	41.0858	46.9471	43.725	40.4727	37.1602
6/2/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	43.6615	40.414	37.1063
6/3/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	43.5981	40.3552	37.0524
6/6/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	43.1538	39.9441	36.6748
6/7/2011	25.9145	14.0418	9.36119	26.257	36.0177	37.4448	39.4426	41.2121	47.0913	43.5346	40.2965	36.9984
6/8/2011	26.1923	14.1923	9.46154	26.5385	36.4038	37.8462	39.8654	41.6538	47.5962	43.9788	40.7077	37.376
6/9/2011	25.5573	13.8483	9.23217	25.8951	35.5213	36.9287	38.899	40.6441	46.4423	43.0904	39.8853	36.6209
6/10/2011	17.05	17.05	17.05	34.05	34.05	34.05	42.5	42.5	42.5	39.75	39.75	39.75
6/13/2011	25.3986	13.7622	9.17483	25.7343	35.3007	36.6993	38.6573	40.3916	46.1538	42.075	38.9455	35.758
6/14/2011	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	43.0269	39.8266	36.567
6/15/2011	25.3986	13.7622	9.17483	25.7343	35.3007	36.6993	38.6573	40.3916	46.1538	42.8365	39.6503	36.4052
6/16/2011	25.1605	13.6332	9.08881	25.493	34.9698	36.3552	38.2949	40.0129	45.7212	43.4077	40.179	36.8906
6/17/2011	25.0017	13.5472	9.03147	25.3322	34.7491	36.1259	38.0533	39.7605	45.4327	42.3923	39.2392	36.0276
6/20/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.4712	40.2378	36.9445
6/21/2011	25.3192	13.7192	9.14615	25.6538	35.1904	36.5846	38.5365	40.2654	46.0096	43.1538	39.9441	36.6748
6/22/2011	24.724	13.3967	8.93112	25.0507	34.363	35.7245	37.6305	39.3187	44.9279	42.5192	39.3566	36.1355
6/23/2011	24.6049	13.3322	8.88811	24.9301	34.1976	35.5524	37.4493	39.1294	44.7115	42.2019	39.0629	35.8658
6/24/2011	24.724	13.3967	8.93112	25.0507	34.363	35.7245	37.6305	39.3187	44.9279	42.7096	39.5329	36.2973
6/27/2011	24.8033	13.4397	8.95979	25.1311	34.4733	35.8392	37.7513	39.4449	45.0721	42.8365	39.6503	36.4052
6/28/2011	25.2795	13.6977	9.13182	25.6136	35.1352	36.5273	38.4761	40.2023	45.9375	43.2173	40.0028	36.7288
6/29/2011	25.3589	13.7407	9.16049	25.6941	35.2455	36.642	38.5969	40.3285	46.0817	44.1692	40.8839	37.5378
6/30/2011	25.0017	13.5472	9.03147	25.3322	34.7491	36.1259	38.0533	39.7605	45.4327	43.5981	40.3552	37.0524
7/1/2011	25.0017	13.5472	9.03147	25.3322	34.7491	36.1259	38.0533	39.7605	45.4327	43.4077	40.179	36.8906
7/5/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.2808	40.0615	36.7827
7/6/2011	25.1208	13.6117	9.07448	25.4528	34.9146	36.2979	38.2345	39.9498	45.649	43.1538	39.9441	36.6748
7/7/2011	25.0414	13.5687	9.0458	25.3724	34.8043	36.1832	38.1137	39.8236	45.5048	43.0269	39.8266	36.567
7/8/2011	25.5177	13.8267	9.21783	25.8549	35.4662	36.8713	38.8385	40.5809	46.3702	43.7885	40.5315	37.2142
7/11/2011	25.8351	13.9988	9.33252	26.1766	35.9074	37.3301	39.3218	41.0858	46.9471	44.2962	41.0014	37.6456
7/12/2011	25.7558	13.9558	9.30385	26.0962	35.7971	37.2154	39.201	40.9596	46.8029	44.0423	40.7664	37.4299
7/13/2011	25.8351	13.9988	9.33252	26.1766	35.9074	37.3301	39.3218	41.0858	46.9471	44.4865	41.1776	37.8074
7/14/2011	25.7955	13.9773	9.31818	26.1364	35.8523	37.2727	39.2614	41.0227	46.875	44.7404	41.4126	38.0232
7/15/2011	26.0733	14.1278	9.41853	26.4178	36.2384	37.6741	39.6842	41.4645	47.3798	44.8673	41.5301	38.131
7/18/2011	25.8748	14.0203	9.34685	26.2168	35.9626	37.3874	39.3822	41.149	47.0192	44.55	41.2364	37.8614
7/19/2011	25.8748	14.0203	9.34685	26.2168	35.9626	37.3874	39.3822	41.149	47.0192	44.55	41.2364	37.8614
7/20/2011	34.949	25.7161	13.9343	9.28951	26.0559	35.742	37.158	39.1406	40.8965	46.7308	44.2962	41.0014
7/21/2011	34.7872	25.597	13.8698	9.2465	25.9353	35.5765	36.986	38.9594	40.7072	46.5144	44.1058	40.8252
7/22/2011	35.0029	25.7558	13.9558	9.30385	26.0962	35.7971	37.2154	39.201	40.9596	46.8029	44.3596	41.0601
7/25/2011	34.7332	25.5573	13.8483	9.23217	25.8951	35.5213	36.9287	38.899	40.6441	46.4423	44.0423	40.7664
7/26/2011	34.895	25.6764	13.9128	9.27517	26.0157	35.6868	37.1007	39.0802	40.8334	46.6587	44.4231	41.1189
7/27/2011	34.895	25.6764	13.9128	9.27517	26.0157	35.6868	37.1007	39.0802	40.8334	46.6587	44.4231	41.1189
7/28/2011	34.6793	25.5177	13.8267	9.21783	25.8549	35.4662	36.8713	38.8385	40.5809	46.3702	43.9788	40.7077
7/29/2011	34.2478	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.7885	40.5315
8/1/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.6615	40.414	37.1063
8/2/2011	25.0414	13.5687	9.0458	25.3724	34.8043	36.1832	38.1137	39.8236	45.5048	43.3442	40.1203	36.8366
8/3/2011	24.9224	13.5042	9.0028	25.2517	34.6388	36.0112	37.9325	39.6343	45.2885	43.1538	39.9441	36.6748
8/4/2011	24.2874	13.1601	8.77343	24.6084	33.7563	35.0937	36.9661	38.6245	44.1346	42.3288	39.1804	35.9737
8/5/2011	24.2874	13.1601	8.77343	24.6084	33.7563	35.0937	36.9661	38.6245	44.1346	42.3288	39.1804	35.9737
8/8/2011	24.1287	13.0741	8.71608	24.4476	33.5357	34.8643	36.7245	38.372	43.8462	41.9481	38.828	35.6501
8/9/2011	24.1684	13.0956	8.73042	24.4878	33.5908	34.9217	36.7849	38.4351	43.9183	41.9481	38.828	35.6501

Mid-Columbia Heavy Load and Light Load Daily Forward Curves
 April 2013 - March 2014

Idaho Power/102
 Wright/10

MidC LL	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14
8/10/2011	23.9699	12.9881	8.65874	24.2867	33.315	34.635	36.4829	38.1196	43.5577	41.4404	38.358	35.2186
8/11/2011	24.208	13.1171	8.74476	24.528	33.646	34.979	36.8453	38.4983	43.9904	42.0115	38.8867	35.704
8/12/2011	24.208	13.1171	8.74476	24.528	33.646	34.979	36.8453	38.4983	43.9904	42.0115	38.8867	35.704
8/15/2011	15.7	15.7	15.7	30.75	30.75	30.75	35.85	35.85	35.85	37.6	37.6	37.6
8/16/2011	15.5	15.5	15.5	30.4	30.4	30.4	35.45	35.45	35.45	37.3	37.3	37.3
8/17/2011	15.55	15.55	15.55	30.5	30.5	30.5	35.55	35.55	35.55	37.45	37.45	37.45
8/18/2011	15.6	15.6	15.6	30.55	30.55	30.55	35.6	35.6	35.6	37.45	37.45	37.45
8/19/2011	24.4462	13.2462	8.83077	24.7692	33.9769	35.3231	37.2077	38.8769	44.4231	42.7096	39.5329	36.2973
8/22/2011	24.2477	13.1386	8.75909	24.5682	33.7011	35.0364	36.9057	38.5614	44.0625	42.2654	39.1217	35.9198
8/23/2011	24.4065	13.2247	8.81643	24.729	33.9218	35.2657	37.1473	38.8138	44.351	42.5192	39.3566	36.1355
8/24/2011	23.9699	12.9881	8.65874	24.2867	33.315	34.635	36.4829	38.1196	43.5577	41.8212	38.7105	35.5422
8/25/2011	24.1684	13.0956	8.73042	24.4878	33.5908	34.9217	36.7849	38.4351	43.9183	42.1385	39.0042	35.8119
8/26/2011	24.208	13.1171	8.74476	24.528	33.646	34.979	36.8453	38.4983	43.9904	42.2019	39.0629	35.8658
8/29/2011	24.1287	13.0741	8.71608	24.4476	33.5357	34.8643	36.7245	38.372	43.8462	42.075	38.9455	35.758
8/30/2011	24.724	13.3967	8.93112	25.0507	34.363	35.7245	37.6305	39.3187	44.9279	42.5827	39.4154	36.1894
8/31/2011	25.2002	13.6547	9.10315	25.5332	35.0249	36.4126	38.3553	40.076	45.7933	43.3442	40.1203	36.8366
9/1/2011	34.7332	25.5573	13.8483	9.23217	25.8951	35.5213	36.9287	38.899	40.6441	46.4423	43.9788	40.7077
9/2/2011	36.513	26.867	14.5579	9.70524	27.222	37.3415	38.821	40.8922	42.7267	48.8221	46.0731	42.6462
9/6/2011	33.7085	24.8033	13.4397	8.95979	25.1311	34.4733	35.8392	37.7513	39.4449	45.0721	43.1538	39.9441
9/7/2011	33.7085	24.8033	13.4397	8.95979	25.1311	34.4733	35.8392	37.7513	39.4449	45.0721	43.1538	39.9441
9/8/2011	33.277	24.4858	13.2677	8.8451	24.8094	34.0321	35.3804	37.2681	38.94	44.4952	42.7731	39.5916
9/9/2011	32.8995	24.208	13.1171	8.74476	24.528	33.646	34.979	36.8453	38.4983	43.9904	42.2019	39.0629
9/12/2011	23.1733	10.1231	3.65894	24.4539	32.9304	35.9795	39.3336	40.3093	44.3951	41.346	36.7154	31.4128
9/13/2011	23.8416	10.4685	4.35685	24.9914	33.4025	36.4281	39.5142	40.4824	44.8392	41.148	37.0588	31.47
9/14/2011	23.9452	10.0319	4.06054	25.4381	33.9174	36.9031	39.5305	40.4262	45.0242	41.3816	36.9264	31.1852
9/15/2011	24.0679	10.0483	3.73052	25.2712	33.8153	36.8238	39.3509	40.5543	44.8865	40.9154	36.5911	31.2235
9/16/2011	23.7806	10.1232	3.59405	25.2781	33.7841	36.7791	39.7741	40.6727	44.9855	40.7326	36.8789	31.536
9/19/2011	23.7766	10.2413	3.65332	24.8546	33.359	36.653	39.2283	40.4261	45.3372	40.6657	36.9476	31.6042
9/20/2011	23.9611	10.5239	3.9836	25.0313	33.4742	36.6254	38.9442	40.2522	44.9493	40.5495	36.8741	31.5694
9/21/2011	23.8271	10.4318	3.91191	25.4274	33.844	36.9854	38.7042	40.0082	44.6906	40.4824	36.8627	31.8742
9/22/2011	23.963	10.3207	3.79613	25.09	33.5127	36.6563	38.3171	39.6221	44.3079	39.9186	36.9157	31.6606
9/23/2011	23.8186	11.763	4.79883	24.7549	33.7673	36.1668	38.2736	39.5611	43.5991	39.6196	36.7452	31.6968
9/26/2011	22.8063	12.3293	5.03591	25.1217	33.6885	35.946	38.3192	39.7085	43.2741	39.8242	36.3445	32.1728
9/27/2011	22.6869	12.6557	4.89896	25.4863	33.5346	36.2756	38.5502	40.2415	44.0673	40.4164	36.8322	32.1085
9/28/2011	22.6843	13.0302	4.97515	24.935	33.2861	36.6029	38.1428	40.6896	44.2788	41.045	35.7348	31.4441
Average LL	26.27	14.80	9.67	25.98	35.95	37.82	40.10	42.02	47.61	43.76	41.22	37.68
Max LL	36.51	26.87	17.75	34.60	41.93	43.42	45.30	48.07	55.65	49.82	46.11	42.65
Min LL	15.50	10.03	3.59	8.74	24.53	30.40	34.98	35.45	35.45	37.30	35.73	31.19
Spread	21.01	16.84	14.16	25.86	17.40	13.02	10.32	12.62	20.20	12.52	10.38	11.46

Idaho Power/103
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright

Producer Price Index for Electric Power

October 20, 2011

Mnemonic: FXPIFU4.US
Description: PPI: Electric Power - Total, (Index, 1982=100, NSA) for United States
Source: Bureau of Labor Statistics: Producer Price Index; Moody's Analytics
Native Frequency: QUARTERLY
Geography: United States

2010 Q1	178.26669
2010 Q2	184.6333
2010 Q3	192.2
2010 Q4	182.39999
2011 Q1	184.03329
2011 Q2	187.5667
2011 Q3	193.71049
2011 Q4	185.5372
2012 Q1	185.4532
2012 Q2	188.8203
2012 Q3	194.26151
2012 Q4	185.4451
2013 Q1	185.5267
2013 Q2	189.6606
2013 Q3	196.4319
2013 Q4	188.7198
2014 Q1	189.3291
2014 Q2	193.5838
2014 Q3	200.3698
2014 Q4	192.34911
2015 Q1	193.03641
2015 Q2	197.61279
2015 Q3	204.67059
2015 Q4	196.6385
2016 Q1	197.4091
2016 Q2	202.1212
2016 Q3	209.3783
2016 Q4	201.10229
2017 Q1	201.74519
2017 Q2	206.3864
2017 Q3	213.61121
2017 Q4	205.0027
2018 Q1	205.50571
2018 Q2	210.0948
2018 Q3	217.3271
2018 Q4	208.4621
2019 Q1	208.8792
2019 Q2	213.4606
2019 Q3	220.7359
2019 Q4	211.67821
2020 Q1	212.06281
2020 Q2	216.6895
2020 Q3	224.0645
2020 Q4	214.87041

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright
Idaho Power Company's Forward Price Curves Discounted for Inflation
Used to Re-Price Purchased Power
and Surplus Sales for the October Update

October 20, 2011

Idaho Power/105
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright

Idaho Power Company's Power Supply Costs for April 1, 2012 – March 31, 2013
(Multiple Gas Prices – 83 Years of Hydro)

October 20, 2011

IPCO POWER SUPPLY COSTS FOR APRIL 1, 2012 -- MARCH 31, 2013 (Multiple Gas Prices/83 Years of Hydro)
Repriced Using UE195 Settlement Methodology - October Update
AVERAGE

	April	May	June	July	August	September	October	November	December	January	February	March	Annual
Hydroelectric Generation (MWh)	865,560.6	931,957.3	928,812.8	676,249.1	550,556.2	552,398.5	526,166.2	456,577.2	677,070.2	781,641.4	834,551.9	865,477.9	8,647,019.4
Bridger Energy (MWh)	215,223.5	228,763.9	233,739.9	415,405.7	443,347.1	397,941.7	445,228.0	447,654.5	479,824.5	431,629.3	378,092.5	412,009.6	4,528,860.2
Cost (\$ x 1000)	\$ 4,910.9	\$ 5,238.8	\$ 5,391.5	\$ 9,424.1	\$ 10,021.7	\$ 9,028.1	\$ 10,064.9	\$ 10,083.1	\$ 10,774.7	\$ 9,571.2	\$ 8,400.4	\$ 9,151.1	\$ 102,060.5
Boardman Energy (MWh)	17,704.1	8,568.7	20,212.1	37,871.4	37,701.2	35,896.6	36,121.2	34,984.6	37,646.2	30,345.0	27,968.8	31,700.5	366,430.4
Cost (\$ x 1000)	\$ 367.7	\$ 180.3	\$ 422.9	\$ 750.0	\$ 747.6	\$ 708.4	\$ 720.8	\$ 688.2	\$ 746.7	\$ 652.4	\$ 599.2	\$ 676.6	\$ 7,270.8
Valmy Energy (MWh)	9,352.5	7,703.1	76.1	85,959.9	119,432.8	81,589.5	142,877.2	142,459.1	159,012.1	37,974.7	25,481.6	17,092.4	829,011.0
Cost (\$ x 1000)	\$ 329.6	\$ 271.3	\$ 2.8	\$ 2,986.1	\$ 4,128.3	\$ 2,831.2	\$ 4,923.8	\$ 4,904.7	\$ 5,453.8	\$ 1,412.9	\$ 942.9	\$ 633.9	\$ 28,821.5
Langley Gulch Energy (MWh)	-	-	-	116,084.8	124,609.5	95,869.3	140,440.0	119,408.5	136,874.8	49,252.1	35,180.3	39,153.9	865,872.1
Cost (\$ x 1000)	\$ -	\$ -	\$ -	\$ 3,888.9	\$ 4,139.2	\$ 3,209.7	\$ 4,670.0	\$ 4,501.8	\$ 5,378.7	\$ 1,838.2	\$ 1,333.4	\$ 1,394.1	\$ 30,354.0
Danskin Energy (MWh)	-	-	0.1	581.1	711.1	-	5.4	-	6.5	-	-	-	1,304.2
Cost (\$ x 1000)	\$ -	\$ -	\$ 0.0	\$ 30.6	\$ 37.7	\$ -	\$ 0.3	\$ -	\$ 0.4	\$ -	\$ -	\$ -	\$ 68.9
Fixed Capacity Charge - Gas Transportation (\$ x 1000)	\$ 449.4	\$ 421.7	\$ 449.7	\$ 435.9	\$ 450.0	\$ 445.2	\$ 468.7	\$ 468.7	\$ 454.2	\$ 450.0	\$ 686.7	\$ 709.0	\$ 5,889.3
Total Cost	\$ 449.4	\$ 421.7	\$ 449.7	\$ 466.5	\$ 487.7	\$ 445.2	\$ 469.0	\$ 468.7	\$ 454.6	\$ 450.0	\$ 686.7	\$ 709.0	\$ 5,958.2
Bennett Mountain Energy (MWh)	-	-	-	165.7	48.6	-	-	-	-	-	-	-	214.4
Cost (\$ x 1000)	\$ -	\$ -	\$ -	\$ 8.9	\$ 2.6	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 11.5
Purchased Power (Excluding CSPSP)	6,782.6	34,744.5	87,105.0	193,940.3	124,345.3	49,532.4	206.1	1,130.9	612.8	29,334.0	2,620.8	1,689.5	532,044.4
Market Energy (MWh)	30,179.5	29,292.1	29,009.3	27,645.9	25,333.5	30,470.2	33,945.6	39,085.4	39,075.8	33,741.7	29,559.2	28,374.5	365,789.7
Contract Energy (MWh)	36,962.1	64,036.7	116,114.2	223,093.1	151,991.2	74,866.0	30,676.4	35,076.4	39,698.2	63,075.8	32,180.1	30,064.0	897,834.1
Total Energy Excl. CSPSP (MWh)	\$ 228.3	\$ 893.2	\$ 1,866.0	\$ 7,900.3	\$ 6,098.5	\$ 2,350.0	\$ 9.6	\$ 55.8	\$ 33.6	\$ 1,459.2	\$ 123.7	\$ 72.1	\$ 21,099.4
Market Cost (\$ x 1000)	\$ 1,245.3	\$ 1,210.8	\$ 1,629.9	\$ 1,985.1	\$ 1,866.1	\$ 1,425.1	\$ 1,712.7	\$ 2,287.8	\$ 2,631.9	\$ 1,948.1	\$ 1,707.7	\$ 1,206.5	\$ 20,837.0
Contract Cost (\$ x 1000)	\$ 1,473.6	\$ 2,104.0	\$ 3,485.9	\$ 9,865.5	\$ 7,964.6	\$ 3,784.1	\$ 1,722.3	\$ 2,343.6	\$ 2,665.5	\$ 3,407.3	\$ 1,831.4	\$ 1,278.6	\$ 41,936.4
Total Cost Excl. CSPSP (\$ x 1000)	\$ 2,718.9	\$ 3,314.8	\$ 5,115.8	\$ 11,845.6	\$ 9,830.7	\$ 5,239.1	\$ 3,431.9	\$ 4,631.4	\$ 5,297.4	\$ 5,355.4	\$ 3,539.1	\$ 3,084.7	\$ 62,873.4
Surplus Sales	282,857.0	174,741.6	114,882.8	14,051.1	33,819.1	143,215.3	406,091.6	264,879.8	341,888.9	176,628.6	334,665.1	419,963.6	2,707,684.7
Energy (MWh)	\$ 8,633.5	\$ 4,071.7	\$ 2,230.0	\$ 518.9	\$ 1,503.9	\$ 6,184.8	\$ 17,200.4	\$ 11,852.3	\$ 17,002.8	\$ 7,968.4	\$ 14,327.0	\$ 16,264.4	\$ 107,758.0
Revenue Including Transmission Costs (\$ x 1000)	\$ 282.9	\$ 174.7	\$ 114.9	\$ 14.1	\$ 33.8	\$ 143.2	\$ 406.1	\$ 264.9	\$ 341.9	\$ 176.6	\$ 334.7	\$ 420.0	\$ 2,707.7
Transmission Costs (\$ x 1000)	\$ 8,350.7	\$ 3,897.0	\$ 2,115.3	\$ 504.8	\$ 1,470.0	\$ 6,041.6	\$ 16,794.3	\$ 11,587.5	\$ 16,661.0	\$ 7,791.5	\$ 13,992.4	\$ 15,844.5	\$ 105,050.4
Revenue Excluding Transmission Costs (\$ x 1000)	\$ 2,277.5	\$ 2,353.4	\$ 1,498.3	\$ 743.2	\$ 1,238.6	\$ 1,977.8	\$ 2,353.4	\$ 2,277.5	\$ 2,353.4	\$ 2,353.4	\$ 2,201.6	\$ 2,353.4	\$ 23,981.4
Hoku First Block Revenues	\$ (3,096.9)	\$ 1,965.7	\$ 6,149.2	\$ 26,142.0	\$ 24,783.1	\$ 11,987.2	\$ 3,423.1	\$ 9,135.1	\$ 6,459.7	\$ 7,187.1	\$ (2,399.9)	\$ (4,354.4)	\$ 87,381.1
Net Power Supply Costs (\$ x 1000)	\$ 13,912.0	\$ 16,822.3	\$ 19,710.6	\$ 20,406.2	\$ 19,819.3	\$ 17,051.2	\$ 16,139.4	\$ 15,965.4	\$ 16,855.4	\$ 12,995.1	\$ 12,832.7	\$ 11,722.3	\$ 193,231.9
PURPA (\$ x 1000)	\$ 10,815.1	\$ 18,787.9	\$ 25,869.8	\$ 46,548.2	\$ 43,602.4	\$ 29,038.4	\$ 19,562.5	\$ 25,100.5	\$ 23,315.1	\$ 20,182.2	\$ 10,432.9	\$ 7,367.8	\$ 280,613.0
Total Net Power Supply Expense (\$ x 1000)	1,044,813	1,219,042	1,457,515	1,529,412	1,411,722	1,411,722	1,150,509	1,066,750	1,190,580	1,298,972	1,205,593	1,104,876	14,713,937
Sales at Customer Level (In 000s MWh)	720	744	720	744	744	720	744	720	744	744	672	744	8760
Hours in Month	\$ 10.35	\$ 17.99	\$ 21.21	\$ 31.94	\$ 28.51	\$ 20.57	\$ 17.00	\$ 23.75	\$ 19.58	\$ 15.54	\$ 8.65	\$ 6.67	\$ 19.07
Unit Cost/ MWh (for PCAM)	64.25%	31.23	27.60	64.25%	55.15	51.83	64.25%	52.19	57.47	51.87	49.40	44.46	64.25%
Portion of Purchased Power considered HL F	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%	62.70%
Purchased Power HL Price	34.15	28.98	25.61	44.62	51.16	48.09	45.66	48.42	53.32	48.12	45.83	41.25	62.70%
Portion of Surplus Sales considered HL Surpl	35.75%	15.78	10.32	35.75%	38.08	40.06	35.75%	44.22	50.11	45.93	39.55	35.75%	35.75%
Surplus Sales HL Price	28.01	37.30%	9.00	24.00	33.21	34.94	36.80	38.57	43.70	40.05	37.73	34.49	37.30%
Portion of Purchased Power considered LLL P	37.30%	13.76	9.00	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%
Purchased Power LL Price	24.43	13.76	9.00	24.00	33.21	34.94	36.80	38.57	43.70	40.05	37.73	34.49	37.30%
Portion of Surplus Sales considered LL Surpl	37.30%	13.76	9.00	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%
Surplus Sales LL Price	24.43	13.76	9.00	24.00	33.21	34.94	36.80	38.57	43.70	40.05	37.73	34.49	37.30%

Prices Used in Purchased Power & Surplus Sales Above:

Heavy Load	Light Load
Portion of Purchased Power considered HL F	Portion of Purchased Power considered LLL P
Purchased Power HL Price	Purchased Power LL Price
Portion of Surplus Sales considered HL Surpl	Portion of Surplus Sales considered LL Surpl
Surplus Sales HL Price	Surplus Sales LL Price

Idaho Power/106
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright
Idaho Power Company's Rate Spread for October APCU Update

October 20, 2011

IDAHO POWER COMPANY
Rate Spread Exhibit for October Update APCU

General Rate Case (UE 213): Marginal Cost-of-Service Study and Stipulated Revenue Spread													
2009 Test Period													
Line	Description	(A) TOTAL SYSTEM AVERAGE	(B) RESIDENTIAL	(C) GEN SRV SECTOR	(D) GEN SRV SECTOR	(E) GEN SRV PRIMARY	(F) AREA LIGHTING	(G) LG POWER PRIMARY	(H) LG POWER TRANS	(I) IRRIGATION SECONDARY	(J) UNMETERED GEN SERVICE	(K) MUNICIPAL ST LIGHT	(L) TRAFFIC CONTROL
		(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
1	Loss-Inflated Normalized Sales (kWh)	749,533,031	220,362,881	19,087,766	129,779,060	17,340,865	470,308	195,081,276	90,310,412	67,154,213	14,306	912,800	19,144
2	Current Revenue	\$32,433,692	\$11,262,377	\$1,176,138	\$6,331,332	\$854,786	\$98,625	\$6,712,141	\$3,243,600	\$2,846,148	\$772	\$106,979	\$794
3	Generation Marginal Cost	\$5,368,907	\$1,681,622	\$160,628	\$942,951	\$119,727	\$519	\$1,078,989	\$663,709	\$819,581	\$75	\$995	\$100
4	Generation Demand-Related	\$46,251,305	\$13,587,114	\$1,187,823	\$7,954,222	\$1,055,870	\$28,934	\$11,838,944	\$5,800,384	\$4,741,513	\$863	\$85,404	\$1,155
5	Generation Energy-Related	\$51,620,212	\$15,268,735	\$1,348,451	\$8,897,174	\$1,175,597	\$28,934	\$12,917,943	\$6,364,093	\$5,561,094	\$938	\$66,039	\$1,255
6	Transmission Marginal Cost	\$14,714,881	\$4,912,854	\$433,698	\$2,725,422	\$348,347	\$2,358	\$3,117,028	\$1,404,982	\$1,765,148	\$216	\$4,540	\$289
7	Transmission Demand-Related	\$4,904,960	\$1,459,585	\$126,429	\$859,599	\$114,858	\$3,115	\$1,292,131	\$598,176	\$444,800	\$95	\$6,046	\$127
8	Transmission Energy-Related	\$19,619,842	\$6,372,439	\$560,127	\$3,585,021	\$463,205	\$5,473	\$4,409,159	\$2,003,158	\$2,209,948	\$311	\$10,586	\$416
9	Distribution Marginal Cost	\$9,658,948	\$4,441,166	\$280,793	\$1,812,158	\$171,415	\$5,820	\$1,102,323	\$0	\$1,833,817	\$156	\$11,191	\$110
10	Demand-Related	\$2,877,137	\$1,831,719	\$489,644	\$230,216	\$7,279	\$0	\$18,994	\$6,595	\$289,732	\$261	\$1,857	\$838
11	Customer-Related	\$20,407,194	\$6,036,241	\$533,088	\$3,517,350	\$464,753	\$11,422	\$5,106,895	\$2,515,939	\$2,198,486	\$371	\$22,154	\$496
12	Generation	\$3,694,492	\$1,199,955	\$105,474	\$675,073	\$87,223	\$1,031	\$830,262	\$377,202	\$416,142	\$58	\$1,993	\$78
13	Transmission	\$10,306,242	\$4,738,791	\$299,610	\$1,933,600	\$182,902	\$6,210	\$1,176,195	\$0	\$1,956,711	\$166	\$11,941	\$117
14	Distribution	\$2,611,035	\$1,662,306	\$444,358	\$208,924	\$6,006	\$0	\$17,238	\$5,985	\$262,935	\$237	\$1,686	\$760
15	Customer-Related	\$414,826	\$190,712	\$42,634	\$18,964	\$71	\$98,699	\$86	\$30	\$21,595	\$43	\$81,908	\$85
16	Direct Assignment	\$37,433,790	\$13,828,005	\$1,425,163	\$6,353,911	\$741,555	\$77,361	\$7,130,674	\$2,899,156	\$4,855,869	\$876	\$119,683	\$1,537
17	Total Cost of Service	\$5,000,098	\$2,565,628	\$224,025	\$1,222,579	\$86,769	(\$21,264)	\$418,533	(\$344,444)	\$2,009,721	\$104	\$12,704	\$743
18	Revenue Deficiency	15.42%	22.78%	21.17%	0.36%	13.25%	-21.56%	6.24%	-10.62%	70.61%	13.41%	11.89%	93.60%
19	% Increase Required	\$37,434,662	\$14,224,869	\$1,466,066	\$6,536,268	\$762,838	\$98,625	\$7,335,324	\$3,243,600	\$3,641,901	\$901	\$123,118	\$1,153
20	Proposed Revenue Spread	26.30%	24.65%	24.65%	3.24%	16.50%	0.00%	9.28%	0.00%	27.96%	16.67%	15.09%	45.20%
21	% Increase Required	102.87%	102.87%	102.87%	102.87%	102.87%	127.48%	102.87%	111.88%	75.00%	102.87%	102.87%	75.00%
22	Cost of Service Index	\$2,391,071	\$707,255	\$62,461	\$412,121	\$54,454	\$1,338	\$598,788	\$257,592	\$43	\$2,596	\$68	\$58
23	2010 October Update APCU (UE 214)	\$2,391,071	\$664,879	\$58,098	\$392,610	\$52,174	\$0	\$576,407	\$258,155	\$386,388	\$41	\$2,231	\$67
24	2010 October Update APCU Cost of Service (UE 214)	\$1,899,839	\$473,216	\$41,792	\$275,746	\$36,435	\$895	\$400,359	\$197,239	\$172,352	\$29	\$1,737	\$39
25	2011 October Update APCU (UE 222)	\$1,899,839	\$445,067	\$38,891	\$262,811	\$34,925	-\$813	\$385,843	\$172,808	\$256,528	\$27	\$1,493	\$38
26	2011 October Update APCU Spread (UE 222)												
27	2012 October Update APCU: Baseline Revenue Requirement Spread and Rates Development Employing the UE 213 Test Period Figures												
28	2012 October Update APCU Cost of Service (Allocator - Line 7)	\$1,391,230	\$411,512	\$36,342	\$239,790	\$31,684	\$779	\$348,155	\$171,520	\$149,879	\$25	\$1,510	\$34
29	Subsidy Correction Determination (+50%)	\$74,956	\$396,884	\$40,902	\$182,357	\$21,283	\$21,264	\$204,650	\$344,444	\$74,939	\$25	\$3,435	\$0
30	General Rate Case Subsidy - \$ (Line 29 - Line 25)	\$1,216,274	\$32,669%	3.37%	15.01%	1.75%	1.75%	16.84%	26.34%	0.00%	0.00%	0.28%	0.00%
31	General Rate Case Subsidy - %	100.00%	32.66%	3.37%	15.01%	1.75%	1.75%	16.84%	26.34%	0.00%	0.00%	0.28%	0.00%
32	Allocated Subsidy Correction (Allocator - Line 40)	\$74,956	\$24,479	\$2,523	\$11,248	\$1,313	\$1,312	\$12,623	\$21,246	\$0	\$2	\$212	\$0
33	Proposed APCU Spread - Preliminary (Lines 37 - 38 + 41)	\$1,391,230	\$397,033	\$33,620	\$228,542	\$30,371	-\$893	\$355,932	\$150,275	\$224,818	\$24	\$1,298	\$51
34	Proposed APCU Spread - Preliminary (Eliminate the Line 42 negative)	\$1,391,230	\$398,856	\$33,804	\$229,438	\$30,367	\$0	\$355,379	\$150,206	\$224,818	\$24	\$1,298	\$51
35	% Increase Required Due to APCU (Proposed) (Line 41/Line 29 + Line 34)	3.49%	2.80%	2.22%	3.30%	3.72%	0.00%	4.24%	4.99%	5.98%	2.52%	1.04%	4.09%
36	Total Cost of Service: 2009 General Rate Case Plus Oct. 2010 & 2011 Update APCU	\$42,815,930	\$15,419,988	\$1,565,759	\$7,281,567	\$964,128	\$90,374	\$8,477,553	\$3,562,703	\$5,435,692	\$973	\$125,526	\$1,668
37	Costs (Line 25 + Line 33 + Line 35 + Line 37)	\$42,815,930	\$15,419,988	\$1,565,759	\$7,281,567	\$964,128	\$90,374	\$8,477,553	\$3,562,703	\$5,435,692	\$973	\$125,526	\$1,668
38	Proposed Combined Revenue Spread (Line 29 + Line 34 + Line 36 + Line 43)	\$42,815,930	\$15,419,988	\$1,565,759	\$7,281,567	\$964,128	\$90,374	\$8,477,553	\$3,562,703	\$5,435,692	\$973	\$125,526	\$1,668
39	Revised Cost of Service Index (Line 46/Line 45)	101.96%	101.99%	101.99%	101.90%	101.87%	121.95%	101.83%	107.36%	83.00%	101.96%	102.08%	80.89%
40	Loss-Adjusted 2009 Normalized Sales (kWh) (Ex. Idaho Power/1212)	679,301,864	198,558,922	17,201,052	116,956,858	16,177,273	424,083	181,464,005	87,112,615	60,553,810	12,900	823,084	17,262
41	2012 October Update APCU Incremental Rate given 2009 Test Period Sales (Mills per kWh) (1000/Line 43/Line 48)	2.048	1.948	1.965	1.953	1.877	0.000	1.848	1.724	3.713	1.838	1.577	2.939
42	APCU Incremental Rate for 2012 October Update (Mills per kWh)	2.110	2.007	2.024	2.012	1.933	0.000	1.904	1.776	3.825	1.893	1.624	3.028
43	49*(Column A-Line 48/Line 51))	659,350,677	198,489,761	18,151,642	116,239,355	18,192,106	483,936	184,148,416	75,988,692	46,849,433	12,900	778,108	16,328
44	Loss-Adjusted 2012-2013 Normalized Sales (kWh)	\$1,370,258	\$398,369	\$36,739	\$233,874	\$35,165	\$0	\$350,619	\$134,956	\$179,199	\$24	\$1,264	\$49
45	Projected October Update APCU 2012-2013 Revenues (Line 51 * Line 50)												

NOTES:
1 2012 October Update APCU Revenues = \$2.11/MWh x 659,350,677 MWh's =
2 \$2.11 = \$19.07 (2012 October APCU Rate) - \$16.96 (2011 October APCU Rate)

Idaho Power/107
Witness: Scott Wright

BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON

IDAHO POWER COMPANY

Exhibit Accompanying Testimony of Scott Wright
Idaho Power Company's Current Billed Revenue to
Proposed Billed Revenue

October 20, 2011

Idaho Power Company
Calculation of Revenue Impact
State of Oregon
2012 APCU October Update Filing
Effective June 1, 2012

Summary of Revenue Impact
Current Billed Revenue to Proposed Billed Revenue ⁽¹⁾

Line No	Tariff Description	Rate Sch. No.	Average Number of Customers ⁽²⁾	Normalized Energy (kWh) ⁽²⁾	Current Billed Revenue	Mills Per kWh	Total Adjustments to Billed Revenue	Proposed Total Billed Revenue	Mills Per kWh	Percent Change Billed to Billed Revenue
<u>Uniform Tariff Rates:</u>										
1	Residential Service	1	13,783	198,489,761	\$15,543,017	78.31	\$398,369	\$15,941,386	80.31	2.56%
2	Small General Service	7	2,542	18,151,642	\$1,606,903	88.53	\$36,738	\$1,643,641	90.55	2.29%
3	Large General Service	9	922	134,431,462	\$8,194,424	60.96	\$269,037	\$8,463,461	62.96	3.28%
4	Dusk to Dawn Lighting	15	0	483,936	\$112,463	232.39	\$0	\$112,463	232.39	0.00%
5	Large Power Service	19	7	260,137,108	\$11,873,771	45.64	\$485,575	\$12,359,346	47.51	4.09%
6	Agricultural Irrigation Service	24	1,611	46,849,433	\$3,557,708	75.94	\$179,199	\$3,736,907	79.76	5.04%
7	Unmetered General Service	40	3	12,900	\$983	76.19	\$24	\$1,007	78.06	2.46%
8	Street Lighting	41	14	778,108	\$124,462	159.95	\$1,280	\$125,742	161.60	1.03%
9	Traffic Control Lighting	42	6	16,328	\$1,255	76.85	\$49	\$1,304	79.87	3.92%
10	Total Uniform Tariffs		18,888	659,350,678	\$41,014,985	62.21	\$1,370,271	\$42,385,257	64.28	3.34%
12	Total Oregon Retail Sales		18,888	659,350,678	\$41,014,985	62.21	\$1,370,271	\$42,385,257	64.28	3.34%

(1) Current Billed to Proposed Billed Revenues reflect the October Update and the current March Forecast (unchanged)

(2) April 1, 2012 - March 31, 2013 APCU Forecasted Test Year

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CERTIFICATE OF SERVICE

I hereby certify that I served a true and correct copy of the foregoing document on the following named person(s) on the date indicated below by email and first-class mail addressed to said person(s) at his or her last-known address(es) indicated below.

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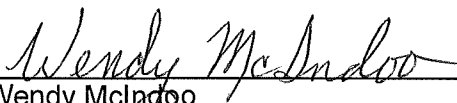
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DATED: October 20, 2011



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