

McDowell & Rackner PC



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October 23, 2008

VIA ELECTRONIC FILING

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

**Re: In The Matter of IDAHO POWER COMPANY 2008 Annual Power Cost Update,
October Update**

Attention Filing Center:

Enclosed for filing in the captioned docket are the following:

- Original and five copies of testimony of Scott Wright (Idaho Power/100-107);
- Original and one copy of Idaho Power's Motion for Protective Order.

Thank you in advance for your assistance.

Very truly yours,

A handwritten signature in black ink, appearing to read "Lisa Rackner".

Lisa Rackner

BEFORE THE PUBLIC UTILITY COMMISSION
OF THE STATE OF OREGON

**Motion for Approval of
Protective Order**

IDAHO POWER COMPANY

October 23, 2008

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON
UE _____**

In the Matter of Idaho Power Company's 2008
Annual Power Cost Update, October Update

**MOTION FOR APPROVAL OF
PROTECTIVE ORDER**

Pursuant to ORCP 36(C)(7) and OAR 860-12-0035(1)(k), Idaho Power Company ("Idaho Power") requests the issuance of a Protective Order in this proceeding. Idaho Power believes good cause exists for the issuance of such an order to protect confidential market information and confidential business information, plans and strategies. In support of this Motion, Idaho Power states:


1. Along with this motion Idaho Power has filed its 2008 Annual Power Cost Update. Idaho Power has filed testimony regarding the power cost variance, and the 2008 Annual Power Cost Update to be refunded to customers. The work papers that support the testimony filed by Idaho Power in this docket include confidential, sensitive business information, including Idaho Power's timing of and prices for electricity purchases and sales, fuel purchases and other contracts. Idaho Power anticipates that there may be requests for further confidential information during this docket as well. Idaho Power desires to provide the requested information, but the information is confidential, sensitive business information and of significant commercial value, and its public disclosure could be detrimental to Idaho Power and its customers.

2. The Commission should therefore issue a Protective Order to protect the confidentiality of that material. The requested order, identical to the one that the Commission customarily issues, is attached.

For the foregoing reasons, Idaho Power Company requests entry of the Commission's standard protective order in this docket.

DATED: October 23, 2008.

MCDOWELL & RACKNER PC

A handwritten signature in black ink, appearing to read "Lisa Rackner", written over a horizontal line.

Lisa Rackner

IDAHO POWER COMPANY

Barton L. Kline
Senior Attorney
PO Box 70
Boise, ID 83707

Attorneys for Idaho Power Company

ORDER NO.

ENTERED

**BEFORE THE PUBLIC UTILITY COMMISSION
OF OREGON**

UE _____

In the Matter of Idaho Power Company's 2008 Annual
Power Cost Update, October Update

ORDER

DISPOSITION: MOTION FOR PROTECTIVE ORDER GRANTED

On October 23, 2008, Idaho Power Company ("Idaho Power") filed a Motion for a Protective Order with the Public Utility Commission of Oregon ("Commission"). Idaho Power states that the workpapers supporting its testimony in this docket contain confidential information including Idaho Power's timing of and prices for electricity purchases and sales, fuel purchases and other contracts. Idaho Power anticipates that there may be requests for further confidential information in this docket. Idaho Power states that good cause exists for the issuance of a protective order to protect confidential business information, plans and strategies. Idaho Power adds that the public release of such information could prejudice Idaho Power and its customers.

Pursuant to OAR 860-012-0035(1)(k), I find that good cause exists to issue Protective Order, attached as Appendix A. Under the terms of the order, a party may designate as confidential any information that falls within the scope of ORCP 36(C)(7).

Confidential Information shall be disclosed only to a "qualified person" as defined in paragraph 3 of the Protective Order. Authors of the confidential material, the Commission or its Staff, and counsel of record for a party or persons directly employed by counsel are "qualified persons" who may review confidential information. Other persons desiring confidential information must become qualified pursuant to paragraph 10.

To receive confidential information, however, all parties—with the general exception of Staff—must sign the Consent to be Bound Form attached as Appendix B. This includes the party seeking the issuance of the protective order, because any party may designate information as confidential under this order.

ORDER NO.

The confidentiality of confidential information shall be preserved for a period of five years from the date of the final order in this docket, unless extended by the Commission at the request of the party desiring confidentiality.

All persons who are given access to confidential information have the duty to monitor their own conduct to ensure their compliance with the Protective Order. Such persons shall not use or disclose the information for any purpose other than the preparation for and conduct of this proceeding, and shall take all reasonable precautions to keep the confidential information secure. If any questions exist as to the status of any person to receive confidential information, the parties may contact the Administrative Hearings Division at (503) 378-6678.

ORDER

IT IS ORDERED that the Protective Order, attached as Appendix A, shall govern the disclosure of confidential information in this case.

Made, entered, and effective on _____

[Judge]
Administrative Law Judge

A party may appeal this order to the Commission pursuant to OAR 860-014-0091.

ORDER NO.

PROTECTIVE ORDER

DOCKET NO.

Scope of this Order-

1. This order governs the acquisition and use of "Confidential Information" in this proceeding.

Definitions-

2. "Confidential Information" is information that falls within the scope of ORCP 36(C)(7) ("a trade secret or other confidential research, development, or commercial information").

3. A "qualified person" is an individual who is:

- a. An author(s), addressee(s), or originator(s) of the Confidential Information;
- b. A Commissioner or Commission staff;
- c. Counsel of record for a party;
- d. A person employed directly by counsel of record; or,
- e. A person qualified pursuant to paragraph 10. This includes parties and their employees.

Designation of Confidential Information-

4. A party providing Confidential Information shall inform other parties that the material has been designated confidential by placing the following legend on the information:

CONFIDENTIAL
SUBJECT TO PROTECTIVE ORDER

To the extent practicable, the party shall designate as confidential only those portions of the document that fall within ORCP 36(C)(7).

5. A party may designate as confidential any information previously provided by giving written notice to the other parties. Parties in possession of newly designated Confidential

Information shall, when feasible, ensure that all copies of the information bear the above legend to the extent requested by the party desiring confidentiality.

Information Given to the Commission-

6. Confidential Information that is: (a) filed with the Commission or its staff; (b) made an exhibit; (c) incorporated into a transcript; or (d) incorporated into a pleading, brief, or other document, shall be printed on yellow paper, separately bound and placed in a sealed envelope or other appropriate container. An original and five copies each separately sealed shall be provided to the Commission. **Only the portions of a document that fall within ORCP 36(C)(7) shall be placed in the envelope/container.** The envelope/container shall bear the legend:

THIS ENVELOPE IS SEALED PURSUANT TO ORDER
NO. _____ AND CONTAINS CONFIDENTIAL
INFORMATION. THE INFORMATION MAY BE SHOWN
ONLY TO QUALIFIED PERSONS AS DEFINED IN THE
ORDER;

7. The Commission's Administrative Hearings Division shall store the Confidential Information in a locked cabinet dedicated to the storage of Confidential Information.

Disclosure of Confidential Information-

8. Parties desiring receipt of Confidential Information shall sign the Consent to be Bound Form attached as Appendix B. This requirement does not apply to the Commission staff. Confidential Information shall not be disclosed to any person other than a "qualified person," as defined in paragraph 3. When feasible, Confidential Information shall be delivered to counsel. In the alternative, Confidential Information may be made available for inspection and review by qualified persons in a place and time agreeable to the parties or as directed by the Administrative Law Judge.

9. Qualified persons may disclose confidential information to any other qualified person, unless the party desiring confidentiality protests as provided in Section 11.

10. To become a qualified person under paragraph 3(e), a person must:

- a. Read a copy of this Protective Order;
- b. Execute a statement acknowledging that the order has been read and agreeing to be bound by the terms of the order;
- c. Date the statement;

- d. Provide a name, address, employer, and job title; and
- e. If the person is a consultant or advisor for a party, provide a description of the nature of the person's consulting or advising practice, including the identity of his/her current, past, and expected clients.

Counsel shall deliver a copy of the signed statement including the information in (d) and (e) above to the party desiring confidentiality and to all parties of record. Such notification may be made via e-mail or facsimile. A person qualified under paragraph 3(e) shall not have access to Confidential Information sooner than five (5) business days after receipt of a copy of the signed statement including the information in (d) and (e) above by the party desiring confidentiality.

11. All qualified persons shall have access to Confidential Information, unless the party desiring confidentiality protests as provided in this paragraph. The party desiring to restrict the qualified person(s) from accessing specific Confidential Information must provide written notice to the qualified person(s) and counsel for the party associated with the qualified person(s) as soon as the party becomes aware of reasons to restrict access. The parties must promptly confer and attempt to resolve any dispute over access to Confidential Information on an informal basis before filing a motion with the Administrative Law Judge. If the dispute cannot be resolved informally, either party may file a motion with the Administrative Law Judge for resolution. Either party may also file a motion if the other party does not respond within five days to a request to resolve the dispute. A motion must describe in detail the intermediate measures, including selected redaction, explored by the parties and explain why such measures do not resolve the dispute. After receipt of the written notice as required in this paragraph, the specific Confidential Information shall not be disclosed to the qualified person(s) until the issue is resolved.

Preservation of Confidentiality-

12. All persons who are given access to any Confidential Information by reason of this order shall not use or disclose the Confidential Information for any purpose other than the purposes of preparation for and conduct of this proceeding, and shall take all reasonable precautions to keep the Confidential Information secure. Disclosure of Confidential Information for purposes of business competition is strictly prohibited.

Qualified persons may copy, microfilm, microfiche, or otherwise reproduce Confidential Information to the extent necessary for the preparation and conduct of this proceeding. Qualified persons may disclose Confidential Information only to other qualified persons associated with the same party.

Duration of Protection-

13. The Commission shall preserve the confidentiality of Confidential Information for a period of five years from the date of the final order in this docket, unless extended by the Commission at the request of the party desiring confidentiality. The Commission shall notify the party desiring confidentiality at least two weeks prior to the release of confidential information.

Destruction After Proceeding-

14. Counsel of record may retain memoranda, pleadings, testimony, discovery, or other documents containing Confidential Information to the extent reasonably necessary to maintain a file of this proceeding or to comply with requirements imposed by another governmental agency or court order. The information retained may not be disclosed to any person: Any other person retaining Confidential Information or documents containing such Confidential Information must destroy or return it to the party desiring confidentiality within 90 days after final resolution of this proceeding unless the party desiring confidentiality consents, in writing, to retention of the Confidential Information or documents containing such Confidential Information. This paragraph does not apply to the Commission or its Staff.

Appeal to the Presiding Officer-

15. If a party disagrees with the designation of information as confidential, the party shall contact the designating party and attempt to resolve the dispute on an informal basis. If the parties are unable to resolve the dispute, the party desiring to use the information may move for exclusion of the information from the protection conferred by this order. The motion shall:

- a. Specifically identify the contested information, and
- b. Assert that the information does not fall within ORCP 36(C)(7) and state the reasons therefore.

The party resisting disclosure has the burden of showing that the challenged information falls within ORCP 36(C)(7). If the party resisting disclosure does not respond to the motion within ten (10) calendar days, the challenged information shall be removed from the protection of this order.

The information shall not be disclosed pending a ruling by the Administrative Law Judge on the motion,

Additional Protection-

16. The party desiring additional protection may move for any of the remedies set forth in ORCP 36(C). The motion shall state:

ORDER NO.

- a. The parties and persons involved;
- b. The exact nature of the information involved;
- c. The exact nature of the relief requested;
- d. The specific reasons the requested relief is necessary; and
- e. A detailed description of the intermediate measures, including selected redaction, explored by the parties and why such measures do not resolve the dispute.

The information need not be released and, if released, shall not be disclosed pending the Commission's ruling on the motion.

ORDER NO.

SIGNATORY PAGE

DOCKET NO.

I. Consent to be Bound-

This Protective Order governs the use of "Confidential Information" in this proceeding.

_____ Idaho Power agrees to be bound by its terms of this Protective Order.

By: _____
Signature & Printed Date

II Persons Qualified pursuant to Paragraphs 3(a) through 3 (d)

_____ Idaho Power identifies the following person(s) automatically qualified under paragraph 3(a) through (d).

_____	_____
Printed	Date
_____	_____
Printed	Date
_____	_____
Printed	Date
_____	_____
Printed	Date
_____	_____
Printed	Date
_____	_____
Printed	Date

ORDER NO.

III. Persons Qualified pursuant to Paragraph 3(e) and Paragraph 10.

I have read the Protective Order, agree to be bound by the terms of the order, and will provide the information identified in paragraph 10.

By: _____
Signature & Printed

_____ Date

By: _____
Signature & Printed

_____ Date

By: _____
Signature & Printed

_____ Date

By: _____
Signature & Printed

_____ Date

SCHEDULE 55
ANNUAL POWER COST UPDATE
(Continued)

APCU - MARCH FORECAST (Continued)

Purchased Power

- Heavy Load - 3.9% above average Mid-C HL prices
- Light Load - 7.1% above average Mid-C LL prices

Surplus Sales

- Heavy Load - 3.6% below average Mid-C HL prices
- Light Load - 6.6% below average Mid-C LL prices

The March Forecast Rate for power supply expense will be the Forecast Power Costs determined by the procedures described above, divided by the Forecast Normalized sales.

CHANGES IN NET POWER SUPPLY EXPENSE

Changes in NPSE are defined as the projected per unit change in NPSE from the per unit NPSE used to develop the Energy Charge for the applicable rate schedules. Unit NPSE are defined as the total NPSE divided by Normalized Sales for the April through March Test Period.

FILING AND EFFECTIVE DATE

In October of each year, the Company will file its October Update with an effective date of June 1 of the following year.

In March of each year the Company will file its March Forecast with an effective date of June 1 following the filing.

RATE ADJUSTMENT

The Sales Adjusted Forecast Power Cost Change is the March Forecast Rate less the October Update Rate, the result multiplied by the Forecast Sales.

The Forecast Change Allowed is 95% of the Sales Adjusted Forecast Power Cost charge.

The March Forecast Rate Adjustment is the Forecast Change Allowed divided by Forecast Sales.

The Combined Rate is the sum of the October Update Rate and the March Forecast Rate Adjustment.

The rate adjustment is the difference between the Combined Rate and the unit NPSE included in the current base rate. The rate adjustment is applied to each of the schedules on an equal cents per kWh basis.

ADJUSTMENT RATES

<u>Schedule</u>	<u>Description</u>	<u>¢ per kWh</u>	
1	Residential Service	0.7910	(I)
7	Small General Service	0.7910	
9	Large Power Service	0.7910	
15	Dusk to Dawn Lighting	0.7910	
19	Large Power Service	0.7910	
24	Irrigation Service	0.7910	
40	Unmetered General Service	0.7910	
41	Municipal Street Lighting	0.7910	
42	Traffic Control Lighting	0.7910	

IPCO POWER SUPPLY COSTS FOR APRIL 1, 2009 - MARCH 31, 2010 (Multiple Gas Prices/80 Hydro Conditions)

AVERAGE

	<u>April</u>	<u>May</u>	<u>June</u>	<u>July</u>	<u>August</u>	<u>September</u>	<u>October</u>	<u>November</u>	<u>December</u>	<u>January</u>	<u>February</u>	<u>March</u>	<u>Annual</u>
Hydroelectric Generation (MWh)	864,268.9	866,449.0	842,395.2	727,873.1	688,036.5	555,471.4	527,759.4	478,321.1	695,521.7	743,548.7	858,155.2	870,114.3	8,717,914.4
Bridger													
Energy (MWh)	330,372.1	330,372.1	428,840.3	455,179.3	455,179.3	440,496.2	455,179.3	440,496.2	455,179.3	455,179.3	411,129.7	422,142.1	5,079,745.4
Cost (\$ x 1000)	\$ 5,133.8	\$ 5,133.8	\$ 6,664.0	\$ 7,073.3	\$ 7,073.3	\$ 6,845.1	\$ 7,073.3	\$ 6,845.1	\$ 7,073.3	\$ 7,601.5	\$ 6,865.8	\$ 7,049.8	\$ 80,432.1
Boardman													
Energy (MWh)	30,792.7	6,392.0	28,290.6	40,374.4	41,028.5	39,535.2	40,964.6	39,719.5	41,066.5	38,760.0	34,978.8	39,147.2	421,050.2
Cost (\$ x 1000)	\$ 496.8	\$ 104.9	\$ 468.7	\$ 647.3	\$ 656.5	\$ 632.9	\$ 655.6	\$ 635.5	\$ 657.0	\$ 671.9	\$ 606.7	\$ 677.7	\$ 6,911.6
Valmy													
Energy (MWh)	88,794.9	157,300.2	151,305.6	172,629.2	173,134.0	166,567.6	172,369.6	168,284.1	174,155.7	167,557.9	150,014.8	166,282.6	1,908,396.2
Cost (\$ x 1000)	\$ 2,170.3	\$ 3,843.1	\$ 3,710.7	\$ 4,205.4	\$ 4,216.9	\$ 4,058.5	\$ 4,199.5	\$ 4,097.7	\$ 4,240.3	\$ 4,638.4	\$ 4,155.3	\$ 4,605.3	\$ 48,141.6
Danskin													
Energy (MWh)	74.1	0.9	330.7	18,206.7	9,634.2	1,142.4	548.8	4,734.4	2,232.6	1,154.4	416.3	60.2	38,535.5
Cost (\$ x 1000)	\$ 7.1	\$ 0.1	\$ 29.7	\$ 1,490.5	\$ 783.2	\$ 105.4	\$ 47.1	\$ 420.6	\$ 210.6	\$ 128.0	\$ 46.7	\$ 6.3	\$ 3,275.3
Fixed Capacity Charge - Gas Transportation (\$ x 1000)	\$ 315.5	\$ 296.9	\$ 315.5	\$ 306.2	\$ 315.5	\$ 306.2	\$ 315.5	\$ 315.5	\$ 306.2	\$ 315.5	\$ 306.2	\$ 315.5	\$ 3,730.3
Total Cost	\$ 322.6	\$ 297.0	\$ 345.2	\$ 1,796.7	\$ 1,098.7	\$ 411.6	\$ 362.6	\$ 736.1	\$ 516.8	\$ 443.5	\$ 352.9	\$ 321.8	\$ 7,005.5
Bennett Mountain													
Energy (MWh)	2.3	-	9.5	7,598.5	3,717.5	54.5	13.5	389.2	127.5	74.6	21.8	0.3	12,009.2
Cost (\$ x 1000)	\$ 0.2	\$ -	\$ 0.9	\$ 653.0	\$ 312.6	\$ 5.4	\$ 1.2	\$ 36.6	\$ 12.6	\$ 8.8	\$ 2.6	\$ 0.0	\$ 1,033.9
Fixed Capacity Charge - Gas Transportation (\$ x 1000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ 0.2	\$ -	\$ 0.9	\$ 653.0	\$ 312.6	\$ 5.4	\$ 1.2	\$ 36.6	\$ 12.6	\$ 8.8	\$ 2.6	\$ 0.0	\$ 1,033.9
Purchased Power (Excluding CSPP)													
Market Energy (MWh)	3,721.5	10,007.8	67,352.8	180,940.6	98,494.6	63,952.7	8,100.8	63,310.0	90,038.8	89,993.7	3,922.1	1,191.3	681,026.7
Contract Energy (MWh)	34,356.0	31,709.3	69,427.5	72,599.6	67,511.3	30,031.7	35,463.5	32,718.0	42,172.1	34,868.2	31,284.2	35,271.0	517,412.3
Total Energy Excl. CSPP (MWh)	38,077.5	41,717.1	136,780.3	253,540.2	166,005.9	93,984.4	43,564.3	96,028.0	132,210.8	124,861.9	35,206.3	36,462.3	1,198,439.0
Market Cost (\$ x 1000)	\$ 248.9	\$ 643.4	\$ 3,972.8	\$ 13,048.4	\$ 6,976.0	\$ 5,278.5	\$ 673.1	\$ 5,331.4	\$ 7,203.5	\$ 7,114.5	\$ 358.1	\$ 83.4	\$ 50,932.0
Contract Cost (\$ x 1000)	\$ 377.6	\$ 390.1	\$ 1,994.6	\$ 2,154.3	\$ 2,117.9	\$ 513.7	\$ 530.8	\$ 616.4	\$ 637.0	\$ 542.0	\$ 489.5	\$ 398.3	\$ 10,762.3
Total Cost Excl. CSPP (\$ x 1000)	\$ 626.5	\$ 1,033.5	\$ 5,967.4	\$ 15,202.7	\$ 9,093.9	\$ 5,792.2	\$ 1,203.9	\$ 5,947.9	\$ 7,840.5	\$ 7,656.5	\$ 847.6	\$ 481.7	\$ 61,694.2
Surplus Sales													
Energy (MWh)	359,504.4	277,925.4	209,709.9	21,331.5	16,545.5	79,388.9	153,818.8	58,243.3	75,350.8	126,879.7	332,120.6	404,014.9	2,114,833.7
Revenue Including Transmission Costs (\$ x 1000)	\$ 17,542.7	\$ 11,777.5	\$ 7,043.2	\$ 1,060.2	\$ 949.3	\$ 4,065.5	\$ 7,929.8	\$ 2,920.9	\$ 4,244.5	\$ 6,575.4	\$ 19,301.3	\$ 23,437.7	\$ 106,847.9
Transmission Costs (\$ x 1000)	\$ 359.5	\$ 277.9	\$ 209.7	\$ 21.3	\$ 16.5	\$ 79.4	\$ 153.8	\$ 58.2	\$ 75.4	\$ 126.9	\$ 332.1	\$ 404.0	\$ 2,114.8
Revenue Excluding Transmission Costs (\$ x 1000)	\$ 17,183.2	\$ 11,499.6	\$ 6,833.4	\$ 1,038.9	\$ 932.7	\$ 3,986.1	\$ 7,776.0	\$ 2,862.7	\$ 4,169.1	\$ 6,448.5	\$ 18,969.1	\$ 23,033.7	\$ 104,733.0
Net Power Supply Costs (\$ x 1000)	\$ (8,432.9)	\$ (1,087.2)	\$ 10,323.5	\$ 28,539.5	\$ 21,519.2	\$ 13,759.7	\$ 5,720.1	\$ 15,436.2	\$ 16,171.3	\$ 14,572.0	\$ (6,138.1)	\$ (9,897.4)	\$ 100,486.0
Purchased Power	66.88	64.29	58.98	72.11	70.83	82.54	83.09	84.21	80.00	79.06	91.30	70.00	74.79
Surplus Sales	48.80	42.38	33.59	49.70	57.37	51.21	51.55	50.15	56.33	51.82	58.12	58.01	50.52

MidC HL	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
10/1/2007	62.7698	42.1734	42.1734	71.7697	90.4923	83.4713	72.0097	74.3837	79.1316	69.2502	64.0238	62.7171
10/2/2007	63.7523	42.8336	42.8336	72.0294	90.8197	83.7733	71.564	73.9233	78.6418	70.16	64.8649	63.5411
10/3/2007	63.0068	42.3327	42.3327	71.7265	90.4378	83.4211	71.2398	73.5883	78.2854	69.2192	63.9951	62.689
10/4/2007	63.7333	42.8208	42.8208	71.706	90.4119	83.3972	71.0353	73.3771	78.0608	69.6689	64.4109	63.0964
10/5/2007	62.8817	42.2487	42.2487	71.1972	89.7704	82.8054	70.4596	72.7825	77.4282	68.45	63.284	61.9925
10/9/2007	61.2945	41.1822	41.1822	71.5185	90.1755	83.1791	70.89	73.2271	77.9011	67.8422	62.722	61.4419
10/10/2007	60.8619	40.8916	40.8916	71.2505	89.8376	82.8675	70.9074	73.245	77.9202	68.5004	63.3305	62.0381
10/11/2007	60.5957	40.7128	40.7128	70.8702	89.3581	82.4252	71.0007	73.3414	78.0227	68.5327	63.3604	62.0674
10/12/2007	60.5957	40.7128	40.7128	70.8702	89.3581	82.4252	71.0007	73.3414	78.0227	68.5327	63.3604	62.0674
10/15/2007	61.4854	41.3105	41.3105	71.55	90.2152	83.2158	71.5757	73.9353	78.6546	69.9976	64.7148	63.3941
10/16/2007	61.2546	41.1554	41.1554	71.8467	90.5894	83.5609	71.8507	74.2194	78.9568	70.1051	64.8142	63.4914
10/17/2007	62.9506	42.2949	42.2949	72.525	91.4446	84.3498	73.6245	76.0517	80.9061	70.7011	65.3651	64.0312
10/18/2007	63.1787	42.4482	42.4482	72.7878	91.7759	84.6554	74.1496	76.5941	81.4831	70.6753	65.3413	64.0078
10/19/2007	61.3787	41.2388	41.2388	77.9085	86.1094	82.009	73.3363	75.754	80.5893	70.2097	64.9108	63.5861
10/22/2007	60.527	40.6666	40.6666	77.4977	85.6554	81.5765	73.1089	75.5191	80.3394	69.6087	64.3552	63.0418
10/23/2007	60.9087	40.923	40.923	77.7958	85.9848	81.8903	73.1421	75.5534	80.376	69.2456	64.0195	62.713
10/24/2007	63.0427	42.3568	42.3568	79.0223	87.3405	83.1814	74.7725	77.2375	82.1675	69.9217	64.6446	63.3254
10/25/2007	62.3026	41.8595	41.8595	76.3011	87.9121	84.5947	74.7554	77.2199	82.1488	70.8393	65.493	64.1564
10/26/2007	62.4053	41.9286	41.9286	76.6775	88.3458	85.012	75.1396	77.6168	82.571	70.7	65.3642	64.0302
10/29/2007	63.0653	42.372	42.372	77.9545	89.8171	86.4278	75.9791	78.4839	83.4936	71.9942	66.5607	65.2023
10/30/2007	64.6412	43.4308	43.4308	77.9344	89.794	86.4055	76.7232	79.2525	84.3112	72.8137	67.3183	65.9445
10/31/2007	64.997	43.6699	43.6699	77.2903	89.0519	85.6914	76.9086	79.444	84.5149	74.116	68.5223	67.1239
11/1/2007	65.5369	44.0326	44.0326	77.1459	88.8855	85.5313	76.3199	78.8359	83.868	73.9276	71.1795	65.7041
11/2/2007	64.6246	43.4196	43.4196	76.5324	88.1786	84.8511	75.6755	78.1703	83.1598	74.2904	70.6631	65.2275
11/5/2007	63.2589	42.5021	42.5021	76.7882	88.4733	85.1347	75.5395	78.0298	83.0104	71.244	67.8963	62.6735
11/6/2007	62.2275	41.8091	41.8091	76.1817	87.7745	84.4623	75.2257	77.7056	82.6656	72.2806	70.027	64.6403
11/7/2007	62.5795	42.0456	42.0456	75.1297	86.5625	83.296	74.6219	77.0819	82.0021	71.8088	69.0147	63.7059
11/8/2007	62.6528	42.0948	42.0948	76.1309	87.716	84.406	76.4173	78.9365	83.975	71.8045	69.0543	63.7424
11/9/2007	62.9563	42.2988	42.2988	75.9902	87.554	84.25	76.0476	78.5547	83.5688	72.3462	69.255	63.9277
11/13/2007	62.3477	41.8899	41.8899	75.8364	87.3768	84.0795	76.1401	78.6503	83.6705	69.8522	67.2187	62.048
11/14/2007	61.5298	41.3404	41.3404	75.4274	86.9055	83.6261	74.9529	77.4239	82.3659	69.9415	66.8641	61.7207
11/15/2007	60.416	40.592	40.592	74.8267	86.2133	82.96	74.8435	77.3109	82.2456	70.3363	67.2187	62.048
11/16/2007	60.416	40.592	40.592	74.8267	86.2133	82.96	74.8435	77.3109	82.2456	70.3363	67.2187	62.048
11/19/2007	60.7279	40.8016	40.8016	74.6165	85.9711	82.727	75.4049	77.8908	82.8625	69.9223	67.6848	62.4783
11/20/2007	59.8905	40.2389	40.2389	74.6467	86.006	82.7605	75.3898	77.8751	82.8459	70.2176	66.1261	61.0395
11/21/2007	61.2204	41.1324	41.1324	75.3257	86.7883	83.5133	75.8399	78.3402	83.3406	70.4142	67.2	62.0308
11/26/2007	61.9918	41.6507	41.6507	76.0231	87.5919	84.2865	77.5819	80.1396	85.2549	71.8878	66.9694	61.818
11/27/2007	61.1718	41.0998	41.0998	75.6236	87.1316	83.8436	76.3843	78.9024	83.9387	72.404	66.9821	61.8296
11/28/2007	60.9021	40.9186	40.9186	76.3596	87.9796	84.6596	77.2074	79.7527	84.8432	71.9915	66.5032	61.3876
11/29/2007	61.2422	41.1471	41.1471	75.9372	87.4928	84.1912	77.4569	80.0104	85.1175	70.7071	69.4909	59.196
11/30/2007	61.0308	41.0051	41.0051	76.5042	88.1462	84.8199	77.4805	80.0348	85.1434	70.7088	68.4816	58.3362
12/3/2007	61.1058	41.0555	41.0555	76.2679	87.8739	84.5579	77.7664	80.3302	85.4576	71.0836	68.3443	58.2192
12/4/2007	61.1058	41.0555	41.0555	76.2679	87.8739	84.5579	77.7664	80.3302	85.4576	71.0836	68.3443	58.2192
12/5/2007	61.2251	41.1356	41.1356	76.4168	88.0454	84.723	77.9182	80.487	85.6244	72.821	69.2467	58.9879
12/6/2007	62.2267	41.8085	41.8085	76.6348	88.2966	84.9647	78.4297	81.0153	86.1865	73.0861	70.0764	59.6947
12/7/2007	50.2286	47.8368	45.4449	76.6878	88.3576	85.0234	78.4746	81.0617	86.2358	72.6386	68.2803	59.5637
12/10/2007	49.9026	47.5263	45.1499	76.3856	88.0095	84.6884	78.1607	80.7374	85.8908	71.7343	67.6684	60.9887
12/11/2007	49.9026	47.5263	45.1499	76.3856	88.0095	84.6884	78.1607	80.7374	85.8908	71.7343	67.6684	60.9887
12/12/2007	51.3447	48.8997	46.4547	77.3065	89.0705	85.7094	78.6063	81.1978	86.3806	73.5313	68.4012	64.9811
12/13/2007	50.8811	48.4582	46.0353	77.0284	88.7501	85.4011	78.2786	80.8592	86.0204	73.8673	68.051	62.2347
12/14/2007	50.8811	48.4582	46.0353	67.4715	77.7389	74.8053	69.0267	71.3023	75.8536	65.0655	61.1771	51.845
12/17/2007	49.9798	47.5999	45.2199	76.32	87.9339	84.6156	77.2057	79.7509	84.8414	72.2183	68.6903	60.1508
12/18/2007	50.9851	48.5573	46.1294	77.4503	89.2362	85.8688	78.4387	81.0245	86.1963	72.2311	69.5992	60.8262
12/19/2007	50.3134	47.9175	45.5216	77.5456	89.346	85.9744	78.2511	80.8308	85.9902	72.2371	68.699	61.6227

12/20/2007	49.6346	47.271	44.9075	78.3882	90.3168	86.9087	78.8219	81.4204	86.6175	72.1225	69.4403	61.3936
12/21/2007	49.985	47.6047	45.2245	78.726	90.706	87.2832	79.7307	82.3591	87.6161	72.7245	69.4324	62.549
12/26/2007	49.0715	46.7347	44.398	78.6445	90.6121	87.1928	79.3339	81.9493	87.1801	72.1516	69.4232	61.2379
12/27/2007	49.245	46.9	44.555	78.6976	90.6733	87.2517	79.3962	82.0137	87.2486	73.1084	69.7715	60.9742
12/28/2007	50.5188	48.1132	45.7075	79.5115	91.611	88.154	80.7951	83.4587	88.7858	74.7942	71.7538	61.4164
12/31/2007	48.8667	46.0338	43.9092	77.1952	89.9431	85.6938	78.6116	80.7363	86.402	79.3786	76.8722	67.4659
1/2/2008	49.6702	46.7908	44.6312	78.4645	91.422	87.1028	79.9043	82.0638	87.8227	80.3796	78.1047	69.0051
1/3/2008	48.2338	45.4376	43.3405	76.1953	88.7781	84.5838	77.5934	79.6905	85.2829	79.0708	76.833	67.8815
1/4/2008	47.6707	44.9072	42.8346	75.3059	87.7418	83.5965	76.6877	78.7603	84.2874	78.9272	76.6934	67.7583
1/7/2008	47.5823	44.8239	42.7551	75.1663	87.579	83.4415	76.5455	78.6143	84.1311	77.4475	75.2555	66.4879
1/8/2008	47.3758	44.6294	42.5696	74.8401	87.199	83.0794	76.2133	78.2731	83.766	78.2614	76.0465	67.1867
1/9/2008	47.6025	44.843	42.7733	75.1982	87.6162	83.4769	76.578	78.6477	84.1668	78.7968	76.5667	67.6463
1/10/2008	47.3179	44.5748	42.5175	74.7486	87.0924	82.9778	76.1201	78.1774	83.6636	77.7084	75.5091	66.7119
1/11/2008	47.0863	44.3566	42.3094	74.3826	86.666	82.5715	75.7474	77.7947	83.2539	78.7914	76.5615	67.6417
1/14/2008	47.8055	45.0342	42.9557	75.5188	87.9898	83.8328	76.9045	78.983	84.5257	79.0078	76.7718	67.8275
1/15/2008	47.3225	44.5792	42.5217	74.7558	87.1008	82.9858	76.1275	78.185	83.6717	78.7582	76.5292	67.6132
1/16/2008	47.4145	44.6658	42.6043	74.9012	87.2702	83.1472	76.2755	78.337	83.8343	78.3281	76.1113	67.2439
1/17/2008	47.6617	44.8987	42.8265	75.2917	87.7252	83.5807	76.6732	78.7455	84.2715	79.0365	76.7996	67.8521
1/18/2008	47.265	44.525	42.47	74.665	86.995	82.885	76.035	78.09	83.57	77.9558	75.7495	66.9243
1/22/2008	46.8625	44.1458	42.1083	74.0292	86.2542	82.1792	75.3875	77.425	82.8583	76.6235	74.455	65.7806
1/23/2008	46.1752	43.4984	41.4908	72.9435	84.9892	80.974	74.2819	76.2895	81.6432	76.6229	74.4543	65.78
1/24/2008	46.9798	44.2563	42.2137	74.2144	86.47	82.3848	75.5762	77.6188	83.0657	76.871	74.6955	65.9931
1/25/2008	47.4979	44.7444	42.6792	75.0329	87.4236	83.2934	76.4096	78.4747	83.9817	78.7314	76.5032	67.5902
1/28/2008	48.0673	45.2808	43.191	75.9325	88.4718	84.292	77.3257	79.4156	84.9886	79.2839	77.04	68.0645
1/29/2008	47.9525	45.1727	43.0878	75.7511	88.2605	84.0907	77.141	79.2259	84.7857	78.7503	76.5215	67.6064
1/30/2008	47.84	45.0667	42.9867	75.5733	88.0533	83.8933	76.96	79.04	84.5867	77.9307	75.7252	66.9028
1/31/2008	47.5525	44.7958	42.7283	75.1192	87.5242	83.3892	76.4975	78.565	84.0783	78.1996	75.9864	67.1336
2/1/2008	47.09	44.3601	42.3128	74.3886	86.6729	82.5781	75.7535	77.8009	83.2606	77.1496	74.9661	66.2322
2/4/2008	46.9225	44.2023	42.1622	74.1239	86.3646	82.2844	75.484	77.5241	82.9644	77.6909	75.4921	66.6969
2/5/2008	47.955	45.175	43.09	75.755	88.265	84.095	77.145	79.23	84.79	74.73	72.615	64.155
2/6/2008	50.8503	48.1017	46.0402	72.1525	85.2087	81.7728	74.9012	76.9627	82.46	78.7566	76.5276	67.6118
2/7/2008	50.9397	48.1862	46.1211	72.2794	85.3585	81.9166	75.0329	77.098	82.605	78.7314	76.5032	67.5902
2/8/2008	51.4333	48.6531	46.5679	72.9796	86.1855	82.7102	75.7598	77.8449	83.4053	79.793	77.5347	68.5015
2/11/2008	51.4454	48.6646	46.579	72.9969	86.2058	82.7298	75.7777	77.8633	83.425	81.09	78.795	69.615
2/12/2008	51.1997	48.4321	46.3565	72.6482	85.794	82.3346	75.4157	77.4914	83.0265	81.3725	79.0695	69.8576
2/13/2008	51.0691	48.3086	46.2382	72.4629	85.5752	82.1246	75.2234	77.2938	82.8147	81.9436	79.6244	70.3478
2/14/2008	52.0027	49.1918	47.0836	73.7877	87.1397	83.626	76.5986	78.7068	84.3288	82.6609	80.3215	70.9636
2/15/2008	51.5112	48.7268	46.6385	73.0903	86.3161	82.8356	75.8746	77.9629	83.5317	82.659	80.3196	70.962
2/19/2008	51.8889	49.0841	46.9805	73.6262	86.949	83.443	76.431	78.5346	84.1442	84.5116	82.1197	72.5524
2/20/2008	52.4359	49.6015	47.4757	74.4023	87.8656	84.3226	77.2367	79.3624	85.0312	84.27	81.885	72.345
2/21/2008	52.3039	49.4766	47.3562	74.2149	87.6443	84.1103	77.0422	79.1626	84.8171	84.27	81.885	72.345
2/22/2008	52.7449	49.8939	47.7555	74.8408	88.3834	84.8196	77.6919	79.8302	85.5323	84.7786	82.3792	72.7816
2/25/2008	53.0507	50.1831	48.0324	75.2746	88.8957	85.3112	78.1422	80.2929	86.0281	86.655	84.2025	74.3925
2/26/2008	53.4871	50.5959	48.4275	75.8938	89.627	86.013	78.785	80.9534	86.7358	86.6076	84.1565	74.3518
2/27/2008	53.4188	50.5313	48.3656	75.7969	89.5125	85.9031	78.6844	80.85	86.625	85.8379	83.4085	73.691
2/28/2008	54.1108	51.1859	48.9922	76.7788	90.6721	87.016	79.7037	81.8974	87.7472	88.4599	85.9564	75.942
2/29/2008	53.7467	50.8415	48.6626	76.2623	90.0621	86.4306	79.1675	81.3464	87.1569	87.6145	85.1349	75.2163
3/3/2008	54.0525	51.1308	48.9395	76.6962	90.5745	86.9223	79.6179	81.8093	87.6528	88.2217	85.7249	75.7375
3/4/2008	54.2214	51.2905	49.0923	76.9357	90.8574	87.1938	79.8666	82.0648	87.9266	88.8454	86.3309	76.2729
3/5/2008	54.1682	51.2402	49.0442	76.8603	90.7684	87.1084	79.7884	81.9844	87.8404	90.4453	87.8855	77.6464
3/6/2008	54.2314	51.3	49.1014	76.95	90.8743	87.21	79.8814	82.08	87.9429	91.2452	88.6628	78.3331
3/7/2008	53.0635	50.1952	48.0439	75.2927	88.9171	85.3318	78.161	80.3123	86.0488	91.2894	88.7058	78.3711
3/10/2008	52.4367	49.6023	47.4765	74.4034	87.8669	84.3239	77.2378	79.3636	85.0325	94.8261	92.1424	81.4073
3/11/2008	52.3544	49.5244	47.4019	74.2866	87.729	84.1915	77.1166	79.2391	84.899	91.955	89.3525	78.9425
3/12/2008	53.0373	50.1705	48.0203	75.2557	88.8734	85.2898	78.1226	80.2727	86.0065	91.8844	89.2839	78.8819

3/13/2008	54.4842	51.5391	49.3303	77.3087	91.2979	87.6165	80.2538	82.4626	88.3528	93.6639	91.0131	80.4096
3/14/2008	53.9613	51.0445	48.8568	76.5667	90.4216	86.7756	79.4835	81.6711	87.5048	93.5103	90.8638	80.2777
3/17/2008	50.9079	48.1562	46.0923	72.2342	85.3052	81.8655	74.986	77.0499	82.5534	89.8178	87.2757	77.1077
3/18/2008	52.8693	50.0115	47.8682	75.0173	88.5918	85.0196	77.8751	80.0184	85.734	90.8703	88.2985	78.0113
3/19/2008	50.6442	47.9067	45.8535	71.86	84.8632	81.4413	74.5975	76.6506	82.1257	88.8164	86.3027	76.248
3/20/2008	49.1117	46.457	44.466	69.6855	82.2953	78.9769	72.3402	74.3312	79.6406	86.34	83.8964	74.1221
3/21/2008	49.1117	46.457	44.466	69.6855	82.2953	78.9769	72.3402	74.3312	79.6406	86.34	83.8964	74.1221
3/24/2008	50.4537	47.7265	45.6811	71.5897	84.544	81.135	74.3169	76.3624	81.8168	87.4257	84.9514	75.0541
3/25/2008	51.9564	49.148	47.0416	73.722	87.0621	83.5516	76.5304	78.6368	84.2537	89.8706	87.3271	77.153
3/26/2008	52.7011	49.8524	47.7159	74.7786	88.31	84.7491	77.6273	79.7638	85.4613	89.5375	87.0035	76.8671
3/27/2008	52.3423	49.513	47.391	74.2695	87.7088	84.1721	77.0989	79.2208	84.8795	90.0298	87.4818	77.2897
3/28/2008	52.483	49.6461	47.5184	74.4691	87.9445	84.3983	77.306	79.4337	85.1075	90.1869	87.6344	77.4246
3/31/2008	55.6875	52.8317	50.6899	73.5361	87.101	83.5313	76.3918	78.5337	84.2452	90.9663	88.3918	78.0938
4/1/2008	54.1119	51.3369	49.2557	71.4554	84.6365	81.1678	74.2304	76.3116	81.8615	89.5191	86.9855	76.8513
4/2/2008	54.2456	51.3906	49.2493	74.2308	87.7922	84.2235	77.0859	79.2271	84.9372	87.2534	84.784	74.9062
4/3/2008	54.1835	51.6033	49.0232	70.7185	83.6382	80.2383	73.4384	75.4784	80.9183	87.5085	85.0318	75.1252
4/4/2008	55.3175	52.6833	50.0492	71.0946	84.083	80.665	73.829	75.8798	81.3486	86.8829	84.424	74.5882
4/7/2008	57.7125	54.9643	52.2161	73.5364	86.9786	83.8157	73.5364	75.9086	80.6529	88.9264	86.4096	76.3425
4/8/2008	57.126	54.4057	51.6855	72.7477	86.0457	82.9168	72.7477	75.0944	79.7878	89.1964	86.672	76.5743
4/9/2008	58.3543	55.5756	52.7968	72.8495	86.1661	83.0328	72.8495	75.1995	79.8995	91.5145	88.9244	78.5643
4/10/2008	57.9532	55.1935	52.4339	71.685	84.7887	81.7055	71.685	73.9974	78.6223	91.3994	88.8126	78.4655
4/11/2008	56.4291	53.742	51.0549	72.684	85.9703	82.8441	72.684	75.0286	79.7179	90.3204	87.7642	77.5392
4/14/2008	56.2568	53.5779	50.899	72.7302	86.025	82.8968	72.7302	75.0764	79.7686	91.7898	89.192	78.8007
4/15/2008	57.3754	54.6432	51.911	73.4774	86.9087	83.7484	73.4774	75.8476	80.5881	91.8275	89.2286	78.8331
4/16/2008	57.7435	54.9938	52.2441	74.9603	88.6627	85.4386	74.9603	77.3784	82.2145	92.457	89.8403	79.3735
4/17/2008	58.2498	55.476	52.7022	75.4131	89.1983	85.9548	75.4131	77.8458	82.7112	92.5859	89.9656	79.4841
4/18/2008	59.8013	56.9536	54.106	76.813	90.8541	87.5503	76.813	79.2908	84.2465	94.1886	91.5229	80.86
4/21/2008	60.0469	57.1875	54.3281	78.4688	92.8125	89.4375	78.4688	81	86.0625	95.6051	92.8993	82.076
4/22/2008	61.3653	58.4431	55.521	79.412	93.9281	90.5126	79.412	81.9737	87.097	98.0294	95.255	84.1573
4/23/2008	62.7211	59.7344	56.7477	80.8555	95.6355	92.1579	80.8555	83.4637	88.6802	99.4277	96.6137	85.3577
4/24/2008	62.9624	59.9642	56.966	79.7149	94.2864	90.8578	79.7149	82.2863	87.4292	99.6772	96.8561	85.5719
4/25/2008	62.9807	59.9816	56.9825	80.2296	94.8952	91.4445	80.2296	82.8176	87.9938	99.237	96.4284	85.1941
4/28/2008	62.2531	59.2886	56.3242	81.1513	95.9854	92.495	81.1513	83.7691	89.0047	101.366	98.4971	87.0217
4/29/2008	61.4203	58.4955	55.5707	78.9036	93.3269	89.9332	78.9036	81.4489	86.5395	100.227	97.3908	86.0443
4/30/2008	61.7488	58.8084	55.868	79.2359	93.7198	90.3118	79.2359	81.7919	86.9038	100.192	97.3566	86.0141
5/1/2008	60.5106	57.6292	54.7477	78.1596	92.4468	89.0851	78.1596	80.6809	85.7234	97.8229	95.0543	83.98
5/2/2008	61.9279	58.9789	56.03	79.3532	93.8587	90.4456	79.3532	81.913	87.0326	99.2648	96.4555	85.2179
5/5/2008	62.5458	59.5674	56.5891	80.3267	95.0101	91.5552	80.3267	82.9179	88.1003	99.7597	96.9363	85.6427
5/6/2008	61.5362	58.6059	55.6756	80.5366	95.2584	91.7944	80.5366	83.1346	88.3305	99.237	96.4284	85.1941
5/7/2008	62.7634	59.7747	56.786	81.4956	96.3927	92.8875	81.4956	84.1245	89.3823	100.512	97.6674	86.2886
5/8/2008	63.3896	60.371	57.3525	81.2335	96.0826	92.5887	81.2335	83.8539	89.0948	99.4103	96.5968	85.3428
5/9/2008	63.7538	60.7179	57.6821	82.7163	97.8365	94.2788	82.7163	85.3846	90.7212	100.362	97.5213	86.1596
5/12/2008	63.7898	60.7521	57.7145	81.8913	96.8607	93.3385	81.8913	84.533	89.8163	99.3241	96.5131	85.2688
5/13/2008	64.059	61.0085	57.9581	82.6879	97.8028	94.2464	82.6879	85.3552	90.6899	99.948	97.1193	85.8044
5/14/2008	65.1147	62.014	58.9133	83.9781	99.3289	95.717	83.9781	86.6871	92.105	100.812	97.9589	86.5462
5/15/2008	65.259	62.1514	59.0438	83.3221	98.553	94.9692	83.3221	86.0099	91.3855	100.341	97.5012	86.1418
5/16/2008	64.2752	61.2145	58.1538	84.8361	100.344	96.6949	84.8361	87.5727	93.046	100.595	97.7476	86.3595
5/19/2008	65.7327	62.6026	59.4724	85.9713	101.687	97.9888	85.9713	88.7446	94.2912	101.062	98.2021	86.7611
5/20/2008	69.2587	65.9607	62.6626	88.9251	105.18	101.355	88.9251	91.7936	97.5307	105.442	102.458	90.5211
5/21/2008	70.6699	67.3047	63.9395	88.2727	104.409	100.612	88.2727	91.1202	96.8152	106.265	103.258	91.2275
5/22/2008	68.7247	65.4521	62.1795	88.1139	104.221	100.431	88.1139	90.9563	96.6411	105.706	102.714	90.7472
5/23/2008	69.1778	65.8836	62.5894	88.064	104.162	100.374	88.064	90.9048	96.5863	105.063	102.089	90.1953
5/27/2008	68.7012	65.4298	62.1583	86.4823	102.291	98.5712	86.4823	89.2721	94.8516	103.265	100.342	88.6517
5/28/2008	68.843	65.5647	62.2865	86.7552	102.614	98.8822	86.7552	89.5537	95.1508	104.626	101.665	89.8205
5/29/2008	65.8689	62.7323	59.5957	85.8221	101.51	97.8188	85.8221	88.5906	94.1275	102.734	99.8268	88.1965

5/30/2008	67.606	64.3867	61.1674	86.3912	102.183	98.4674	86.3912	89.178	94.7516	104.41	101.455	89.635
6/2/2008	67.4713	64.2584	61.0455	85.0349	100.579	96.9215	85.0349	87.778	93.2641	104.176	101.227	89.4337
6/3/2008	67.1753	63.9765	60.7776	86.016	101.739	98.0397	86.016	88.7907	94.3401	104.055	101.11	89.33
6/4/2008	66.9075	63.7214	60.5354	85.5496	101.188	97.5082	85.5496	88.3093	93.8286	103.266	100.343	88.6528
6/5/2008	67.0094	63.8184	60.6275	84.0439	99.4067	95.7919	84.0439	86.755	92.1772	103.728	100.792	89.0491
6/6/2008	67.6189	64.3989	61.179	86.3626	102.149	98.4348	86.3626	89.1485	94.7203	104.344	101.391	89.5781
6/9/2008	68.4165	65.1585	61.9006	87.0259	102.934	99.1908	87.0259	89.8332	95.4477	106.399	103.387	91.3422
6/10/2008	67.4546	64.2425	61.0304	85.8704	101.567	97.8738	85.8704	88.6404	94.1805	106.544	103.529	91.4674
6/11/2008	67.7784	64.5508	61.3233	85.8703	101.567	97.8737	85.8703	88.6403	94.1803	107.284	104.248	92.1024
6/12/2008	68.6824	65.4118	62.1412	86.6541	102.494	98.7671	86.6541	89.4494	95.04	107.759	104.709	92.5098
6/13/2008	69.9639	66.6323	63.3007	87.8063	103.857	100.08	87.8063	90.6387	96.3037	107.767	104.717	92.5167
6/16/2008	70.4455	67.0909	63.7364	89.0264	105.3	101.471	89.0264	91.8982	97.6418	108.139	105.079	92.8365
6/17/2008	72.2617	68.8207	65.3797	89.4961	105.856	102.006	89.4961	92.383	98.157	108.412	105.343	93.0703
6/18/2008	72.9379	69.4646	65.9914	90.7455	107.333	103.43	90.7455	93.6727	99.5273	109.289	106.196	93.8236
6/19/2008	72.03	68.6	65.17	90.3805	106.902	103.014	90.3805	93.296	99.127	107.39	104.35	92.1929
6/20/2008	72.8955	69.4243	65.9531	89.829	106.249	102.386	89.829	92.7267	98.5221	108.836	105.756	93.4348
6/23/2008	72.933	69.46	65.987	90.8006	107.399	103.493	90.8006	93.7296	99.5877	108.871	105.79	93.465
6/24/2008	72.6162	69.1583	65.7004	90.9017	107.518	103.608	90.9017	93.834	99.6986	107.609	104.563	92.381
6/25/2008	72.2241	68.7849	65.3457	90.5703	107.126	103.231	90.5703	93.4919	99.3351	106.938	103.911	91.8049
6/26/2008	72.7217	69.2588	65.7959	91.9689	108.78	104.825	91.9689	94.9357	100.869	107.956	104.901	92.6794
6/27/2008	73.9699	70.4475	66.9251	92.1119	108.95	104.988	92.1119	95.0832	101.026	107.607	104.561	92.3792
6/30/2008	73.8299	70.3142	66.7985	91.5276	108.258	104.322	91.5276	94.4801	100.385	107.71	104.661	92.4677
7/1/2008	73.6059	70.1009	66.5958	91.2076	107.88	103.957	91.2076	94.1498	100.034	106.853	103.829	91.7321
7/2/2008	73.6059	70.1009	66.5958	91.2076	107.88	103.957	91.2076	94.1498	100.034	106.853	103.829	91.7321
7/3/2008	71.9469	68.5208	65.0948	89.7256	106.127	102.268	89.7256	92.62	98.4088	105.833	102.838	90.857
7/7/2008	71.0837	67.6987	64.3138	88.8907	105.14	101.316	88.8907	91.7582	97.493	103.619	100.686	88.956
7/8/2008	69.3305	66.029	62.7276	87.6016	103.615	99.847	87.6016	90.4274	96.0792	98.7101	95.9164	84.7416
7/9/2008	66.7435	63.5652	60.387	86.9348	102.826	99.087	86.9348	89.7391	95.3478	97.3587	94.6033	83.5815
7/10/2008	68.4533	65.1937	61.934	85.7949	101.478	97.7877	85.7949	88.5624	94.0976	95.8525	93.1397	82.2885
7/11/2008	66.5155	63.3481	60.1807	84.1624	99.547	95.9271	84.1624	86.8773	92.3072	93.3979	90.7545	80.1812
7/14/2008	67.3033	64.0984	60.8934	85.4215	101.036	97.3622	85.4215	88.177	93.6881	93.9946	91.3344	80.6935
7/15/2008	65.7402	62.6097	59.4792	81.583	96.496	92.9871	81.583	84.2147	89.4781	92.1422	89.5344	79.1032
7/16/2008	65.5531	62.4316	59.31	81.1763	96.015	92.5236	81.1763	83.7949	89.0321	91.8947	89.2939	78.8907
7/17/2008	61.5841	58.6515	55.7189	80.0378	94.6683	91.2258	80.0378	82.6196	87.7834	87.7648	85.2809	75.3452
7/18/2008	64.0185	60.97	57.9215	79.0961	93.5545	90.1525	79.0961	81.6476	86.7505	87.4627	84.9874	75.0859
7/21/2008	64.4053	61.3384	58.2715	79.0191	93.4634	90.0648	79.0191	81.5681	86.6661	86.4012	83.9559	74.1746
7/22/2008	63.2357	60.2245	57.2132	77.6536	91.8483	88.5084	77.6536	80.1585	85.1684	84.3488	81.9615	72.4126
7/23/2008	61.6	58.6667	55.7333	77.5207	91.6911	88.3569	77.5207	80.0213	85.0227	84.4517	82.0616	72.501
7/24/2008	62.4182	59.4459	56.4736	77.3759	91.5198	88.1918	77.3759	79.8718	84.8638	82.1871	79.8611	70.5569
7/25/2008	61.8665	58.9205	55.9744	76.2236	90.1569	86.8785	79.2769	81.8342	86.9489	81.2414	78.9421	69.745
7/28/2008	63.1098	60.1046	57.0993	74.6762	88.3267	85.1148	79.0572	81.6074	86.7079	81.2597	78.9599	69.7607
7/29/2008	64.6821	61.602	58.5219	75.6813	89.5155	86.2604	78.9103	81.4558	86.5468	81.5677	79.2592	70.0251
7/30/2008	63.9416	60.8967	57.8519	75.6604	89.4908	86.2366	79.6166	82.1849	87.3214	81.2855	78.985	69.7828
7/31/2008	65.4109	62.2961	59.1813	77.5124	91.6814	88.3475	80.8502	83.4583	88.6745	82.0883	79.765	70.472
8/1/2008	66.511	63.3438	60.1767	80.4361	95.1395	91.6799	81.5402	84.1705	89.4312	84.4681	82.0775	72.5151
8/4/2008	65.2186	62.113	59.0073	80.9805	95.7834	92.3004	82.8625	85.5355	90.8815	83.2032	80.8484	71.4292
8/5/2008	64.7282	61.6459	58.5636	79.7494	94.3272	90.8972	81.7023	84.3379	89.609	83.2222	80.8668	71.4454
8/6/2008	64.8529	61.7647	58.6765	79.4696	93.9963	90.5782	81.1776	83.7962	89.0335	82.945	80.5975	71.2075
8/7/2008	63.2678	60.255	57.2423	77.8875	92.125	88.775	80.2365	82.8247	88.0013	81.9009	79.583	70.3112
8/8/2008	62.4216	59.4492	56.4767	77.7155	91.9216	88.579	79.0533	81.6034	86.7036	80.0408	77.7755	68.7143
8/11/2008	62.4147	59.4426	56.4704	77.9403	92.1874	88.8351	79.0445	81.5943	86.694	80.5734	78.293	69.1715
8/12/2008	61.9464	58.9966	56.0468	77.4607	91.6202	88.2886	79.0411	81.5908	86.6902	78.97	76.735	67.795
8/13/2008	62.4488	59.475	56.5013	77.3382	91.4753	88.1489	79.9289	82.5072	87.6639	78.1697	75.9574	67.108
8/14/2008	61.016	58.1104	55.2049	76.276	90.2189	86.9383	78.0489	80.5666	85.602	77.3791	75.1891	66.4292
8/15/2008	60.4881	57.6078	54.7274	75.826	89.6866	86.4253	77.5705	80.0728	85.0774	76.8491	74.6741	65.9742

8/18/2008	60.4333	57.5556	54.6778	75.3995	89.1822	85.9392	77.8462	80.3574	85.3797	76.055	73.9025	65.2925
8/19/2008	60.4277	57.5502	54.6727	75.1604	88.8995	85.6667	78.5779	81.1127	86.1822	76.32	74.16	65.52
8/20/2008	59.8938	57.0417	54.1896	75.6315	89.4566	86.2036	77.1072	79.5945	84.5692	77.115	74.9325	66.2025
8/21/2008	60.7472	57.8545	54.9617	76.0449	89.9456	86.6748	78.0489	80.5666	85.602	77.9073	75.7024	66.8827
8/22/2008	59.1012	56.2868	53.4725	74.7247	88.3841	85.1701	77.3755	79.8715	84.8635	76.32	74.16	65.52
8/25/2008	59.1688	56.3512	53.5337	75.0224	90.0269	85.0254	78.2789	80.7251	85.6175	77.115	74.9325	66.2025
8/26/2008	59.8103	56.9622	54.1141	75.068	90.0816	85.0771	77.6313	80.0573	84.9093	78.1777	75.9652	67.1148
8/27/2008	60.4649	57.5856	54.7063	74.3309	89.1971	84.2417	76.6192	79.0135	83.8022	78.1659	75.9537	67.1047
8/28/2008	59.3157	56.4912	53.6666	73.8254	88.5905	83.6688	76.7661	79.165	83.9629	77.3931	75.2027	66.4413
8/29/2008	58.3815	55.6014	52.8214	73.3324	87.9989	83.11	75.5154	77.8753	82.595	76.0597	73.9071	65.2965
9/2/2008	56.27	53.5905	50.911	72.466	86.9591	82.1281	75.7764	78.1444	82.8805	73.8935	71.8021	63.4368
9/3/2008	56.5361	53.8439	51.1517	72.2141	86.657	81.8427	76.5216	78.9129	83.6955	73.8966	71.8052	63.4395
9/4/2008	56.5925	53.8976	51.2027	72.4068	86.8882	82.0611	76.4768	78.8667	83.6464	74.9823	72.8601	64.3716
9/5/2008	58.344	55.5657	52.7874	74.2993	89.1591	84.2058	76.7124	79.1097	83.9042	75.4999	73.3631	64.8159
9/8/2008	57.4547	54.7188	51.9828	74.1094	88.9313	83.9906	76.5	78.8906	83.6719	75.79	73.645	65.065
9/9/2008	57.5105	54.7719	52.0333	74.0611	88.8734	83.9359	77.9825	80.4194	85.2933	75.7465	73.6027	65.0276
9/10/2008	54.9059	52.2914	49.6768	72.2571	86.7086	81.8914	76.0602	78.437	83.1908	72.5622	70.5085	62.2939
9/11/2008	54.1181	51.541	48.964	71.1266	85.3519	80.6102	74.8534	77.1926	81.8709	72.0406	70.0017	61.8461
9/12/2008	54.3844	51.7947	49.2049	71.3498	85.6198	80.8631	74.838	77.1767	81.8541	72.5838	70.5295	62.3125
9/15/2008	54.3956	51.8053	49.2151	76.1221	81.6727	80.0868	74.2445	76.5646	81.2049	72.6766	70.6197	62.3921
9/16/2008	53.8166	51.2539	48.6912	74.9528	80.4182	78.8566	73.4232	75.7177	80.3066	70.9581	68.9499	60.9169
9/17/2008	54.3286	51.7415	49.1544	75.5112	81.0173	79.4441	74.2569	76.5774	81.2185	72.61	70.555	62.335
9/18/2008	54.4737	51.8797	49.2857	73.8819	81.7417	80.1697	73.2126	75.5005	80.0763	72.351	70.3033	62.1126
9/19/2008	53.5857	51.034	48.4823	73.6712	81.5085	79.9411	74.9887	77.3321	82.0189	71.536	69.5114	61.413
9/22/2008	54.3022	51.7164	49.1306	74.6388	82.5791	80.991	76.2269	78.609	83.3731	72.3312	70.284	62.0956
9/23/2008	56.1	53.4286	50.7571	76.319	84.4381	82.8143	76.9371	79.3414	84.15	73.9282	71.8359	63.4667
9/24/2008	58.0434	50.7226	48.108	75.4686	83.4971	81.8914	75.5531	77.9141	82.6362	72.8531	70.7912	62.5437
9/25/2008	57.6493	50.3782	47.7814	75.9701	84.0521	82.4357	77.0778	79.4864	84.3038	73.3663	71.2899	62.9843
9/26/2008	57.1586	49.9494	47.3747	75.8843	83.9571	82.3425	74.9241	77.2655	81.9483	73.1238	71.0542	62.7761
9/29/2008	54.7305	47.8276	45.3622	74.3611	82.2719	80.6897	73.3425	75.6344	80.2183	70.9567	68.9484	60.9156
9/30/2008	55.4608	48.4658	45.9675	74.7429	82.6943	81.104	74.2701	76.5911	81.2329	72.9338	66.9118	60.8897

Average HL	58.96	52.82	50.63	77.63	91.23	87.51	78.61	81.05	86.30	84.43	81.53	72.73
Max HL	73.97	70.45	66.93	92.11	108.95	104.99	92.11	95.08	101.03	109.29	106.20	93.82
Min HL	46.18	40.24	40.24	67.47	77.74	74.81	69.03	71.30	75.85	65.07	61.18	51.85
Spread	27.79	30.21	26.69	24.64	31.21	30.18	23.09	23.78	25.17	44.22	45.02	41.98

MidC LL	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
10/1/2007	41.0412	32.4168	30.2557	50.8428	64.8106	60.3409	62.0171	65.3693	68.7216	56.7582	57.2605	57.7628
10/2/2007	41.9897	33.166	30.9549	50.0743	63.831	59.4288	61.0796	64.3812	67.6828	57.0272	57.5318	58.0365
10/3/2007	41.7831	33.0028	30.8026	50.3447	64.1757	59.7498	61.4095	64.7289	68.0484	56.8002	57.3028	57.8055
10/4/2007	41.9978	33.1724	30.9609	50.2857	64.1005	59.6798	61.3376	64.6531	67.9686	56.8169	57.3197	57.8225
10/5/2007	41.7057	32.9417	30.7455	50.2514	64.0567	59.639	61.2957	64.6089	67.9222	56.8002	57.3028	57.8055
10/9/2007	41.419	32.7152	30.5342	49.1274	62.6239	58.305	59.9246	63.1638	66.403	56.759	57.2613	57.7636
10/10/2007	39.5098	31.2072	29.1267	49.2215	62.7439	58.4167	60.0394	63.2847	66.5301	59.1168	59.64	60.1632
10/11/2007	39.3243	31.0607	28.99	49.8594	63.557	59.1738	60.8175	64.1049	67.3924	56.4703	56.97	57.4697
10/12/2007	38.5126	30.4196	28.3916	50.7053	64.6354	60.1778	61.8494	65.1926	68.5358	54.3788	54.86	55.3412
10/15/2007	39.045	30.8401	28.7841	51.1453	65.1962	60.6999	62.386	65.7582	69.1305	54.5953	55.0784	55.5616
10/16/2007	39.3468	31.0784	29.0065	51.3487	65.4555	60.9413	62.6341	66.0198	69.4054	55.1002	55.5878	56.0754
10/17/2007	39.8204	31.4526	29.3557	51.9476	66.2189	61.6521	63.3647	66.7898	70.2149	56.6267	57.1278	57.6289
10/18/2007	39.8876	31.5056	29.4053	52.0546	66.3553	61.7791	63.4951	66.9273	70.3595	56.3845	56.8835	57.3825
10/19/2007	39.4018	31.1219	29.0471	50.9648	64.9661	60.4857	62.1659	65.5262	68.8865	61.1177	58.2073	55.297
10/22/2007	39.548	31.2374	29.1549	50.6575	64.5744	60.121	61.791	65.1311	68.4712	61.4851	58.5572	55.6294
10/23/2007	38.35	30.2911	28.2717	51.6321	65.8167	61.2776	62.9798	66.3841	69.7884	59.2958	56.4722	53.6486
10/24/2007	39.3935	31.1153	29.041	52.0315	66.3259	61.7517	63.467	66.8976	70.3283	60.6096	57.7234	54.8373
10/25/2007	38.9978	30.8028	28.7493	52.3	66.6681	62.0703	63.7945	67.2428	70.6912	61.2083	58.2936	55.3789
10/26/2007	38.8057	30.6511	28.6077	52.6271	67.0851	62.4586	64.1935	67.6635	71.1334	61.7022	58.764	55.8258
10/29/2007	40.1062	31.6783	29.5664	52.8968	67.4289	62.7786	64.5225	68.0102	71.4979	62.4375	59.4643	56.4911
10/30/2007	40.7256	32.1675	30.023	53.2257	67.8482	63.169	64.9237	68.4331	71.9424	61.9981	59.0458	56.0935
10/31/2007	40.9784	32.3672	30.2094	53.0175	67.5828	62.9219	64.6697	68.1654	71.661	61.6647	58.7283	55.7919
11/1/2007	40.5343	32.0164	29.882	52.3912	66.7844	62.1786	63.9058	67.3601	70.8145	63.7337	61.9127	56.4498
11/2/2007	40.1313	31.6981	29.5849	52.6461	67.1094	62.4811	64.2167	67.6879	71.1591	62.8858	61.0891	55.6989
11/5/2007	38.0232	30.033	28.0308	51.7088	65.9145	61.3687	63.0734	66.4827	69.8921	59.6802	57.975	52.8596
11/6/2007	38.2342	30.1997	28.1863	49.9105	63.6221	59.2344	60.8798	64.1706	67.4614	59.3957	57.6987	52.6076
11/7/2007	38.6056	30.493	28.4602	50.9554	64.9542	60.4746	62.1544	65.5141	68.8738	59.4691	57.77	52.6726
11/8/2007	38.4125	30.3405	28.3178	50.8764	64.8534	60.3808	62.058	65.4125	68.767	57.8093	56.1576	51.2025
11/9/2007	39.1429	30.9174	28.8562	50.781	64.7318	60.2675	61.9416	65.2898	68.638	59.3642	57.6681	52.5797
11/13/2007	39.3862	29.0554	28.4097	51.3526	65.4605	60.946	62.6389	66.0248	69.4107	60.6785	58.9448	53.7438
11/14/2007	39.034	28.7956	28.1557	51.0199	65.0364	60.5511	62.2331	65.597	68.961	59.5687	57.8668	52.7609
11/15/2007	36.7364	27.1006	26.4984	50.2838	64.0981	59.6775	61.3352	64.6507	67.9661	59.5004	57.8004	52.7004
11/16/2007	39.4768	29.1223	28.4751	51.2461	65.3246	60.8195	62.5089	65.8878	69.2667	60.9853	59.2429	54.0156
11/19/2007	38.3173	28.2669	27.6387	52.1636	66.4943	61.9085	63.6282	67.0675	70.5069	59.6454	57.9413	52.8288
11/20/2007	37.3747	27.5715	26.9588	53.1972	67.8118	63.1351	64.8889	68.3964	71.9039	58.7243	57.0465	52.013
11/21/2007	38.5784	28.4595	27.8271	53.0565	67.6324	62.9681	64.7172	68.2155	71.7137	59.0982	57.4097	52.3441
11/26/2007	40.4624	29.8493	29.186	52.5458	66.9815	62.3621	64.0944	67.5589	71.0235	60.2513	58.5299	53.3655
11/27/2007	35.2251	25.9857	25.4083	55.9026	71.2605	66.3459	68.1889	71.8748	75.5607	54.9667	53.3962	48.6848
11/28/2007	38.2821	28.2409	27.6133	52.6323	67.0918	62.4648	64.1999	67.6702	71.1404	61.5812	59.8217	54.5433
11/29/2007	38.5207	28.4169	27.7854	52.6614	67.1288	62.4992	64.2353	67.7075	71.1797	61.411	59.6564	54.3926
11/30/2007	37.5212	27.6796	27.0645	53.7356	68.4982	63.7741	65.5456	69.0887	72.6317	61.5091	59.8209	51.8297
12/3/2007	37.8154	27.8966	27.2767	53.2172	67.8373	63.1589	64.9133	68.4221	71.9309	63.5948	60.665	51.9904
12/4/2007	37.9547	27.9994	27.3772	53.2952	67.9367	63.2514	65.0084	68.5224	72.0363	62.331	60.4927	52.5074
12/5/2007	38.2783	28.2381	27.6106	53.2999	67.9427	63.257	65.0141	68.5284	72.0427	62.0667	60.0937	52.1451
12/6/2007	38.6914	28.5429	27.9086	53.8417	68.6333	63.9	65.675	69.225	72.775	63.4286	61.1429	53.8286
12/7/2007	38.0869	28.0969	27.4725	52.6788	67.8239	62.556	67.1654	70.4578	74.4087	63.4667	61.425	53.9583
12/10/2007	38.0869	28.0969	27.4725	52.9023	68.1117	62.8215	67.4504	70.7568	74.7245	62.7083	60.9583	53.4917
12/11/2007	38.1488	28.1425	27.5171	51.8277	66.7282	61.5454	66.0804	69.3196	73.2067	63.0527	60.4136	52.6109
12/12/2007	36.2398	26.7343	26.1402	52.9566	68.1816	62.886	67.5197	70.8295	74.8012	63.7066	62.2251	54.1905
12/13/2007	38.7591	28.5928	27.9574	52.1554	67.1501	61.9345	66.4981	69.7578	73.6695	62.5159	61.261	53.1043
12/14/2007	38.3375	28.2818	27.6533	51.7464	66.6234	61.4488	65.9766	69.2107	73.0917	62.4459	60.8948	52.5648
12/17/2007	37.2286	27.4637	26.8534	50.7171	65.2983	60.2266	64.6643	67.8341	71.6379	61.2732	60.5033	52.1144
12/18/2007	38.0887	28.0982	27.4738	51.38	66.1517	61.0137	65.5095	68.7207	72.5742	60.6572	60.7148	52.5926
12/19/2007	37.7689	27.8623	27.2431	52.346	67.3954	62.1608	66.7411	70.0127	73.9387	60.7461	60.5725	51.7788

12/20/2007	37.4709	27.6425	27.0282	53.082	68.343	63.0348	67.6795	70.9971	74.9783	61.1788	60.5934	51.7532
12/21/2007	38.0555	28.0737	27.4498	52.93	68.1474	62.8544	67.4858	70.7939	74.7636	62.1941	61.662	52.3802
12/26/2007	37.4461	27.6242	27.0103	52.524	67.6247	62.3723	66.9681	70.2509	74.1902	61.4879	61.2503	52.0419
12/27/2007	36.2673	26.7546	26.16	51.3781	66.1493	61.0115	65.5071	68.7182	72.5716	61.7477	61.5109	52.2754
12/28/2007	37.914	27.9693	27.3478	53.5981	69.0075	63.6477	68.3376	71.6874	75.7073	63.78	62.76	53.4
12/31/2007	40.9895	30.8825	30.321	50.535	65.6955	60.642	64.5725	68.503	73.5565	62.975	69.845	58.9675
1/2/2008	40.953	30.855	30.294	50.49	65.637	60.588	64.515	68.442	73.491	63.327	70.2354	59.2971
1/3/2008	40.88	30.8	30.24	50.4	65.52	60.48	64.4	68.32	73.36	62.15	68.93	58.195
1/4/2008	39.9675	30.1125	29.565	49.275	64.0575	59.13	62.9625	66.795	71.7225	61.05	67.71	57.165
1/7/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	61.05	67.71	57.165
1/8/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.5	67.1	56.65
1/9/2008	39.9675	30.1125	29.565	49.275	64.0575	59.13	62.9625	66.795	71.7225	60.775	67.405	56.9075
1/10/2008	39.9675	30.1125	29.565	49.275	64.0575	59.13	62.9625	66.795	71.7225	60.775	67.405	56.9075
1/11/2008	40.1135	30.2225	29.673	49.455	64.2915	59.346	63.1925	67.039	71.9845	60.72	67.344	56.856
1/14/2008	39.8945	30.0575	29.511	49.185	63.9405	59.022	62.8475	66.673	71.5915	60.5	67.1	56.65
1/15/2008	39.9675	30.1125	29.565	49.275	64.0575	59.13	62.9625	66.795	71.7225	60.5	67.1	56.65
1/16/2008	39.4784	29.744	29.2032	48.672	63.2736	58.4064	62.192	65.9776	70.8448	60.17	66.734	56.341
1/17/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	61.325	68.015	57.4225
1/18/2008	40.3325	30.3875	29.835	49.725	64.6425	59.67	63.5375	67.405	72.3775	61.6	68.32	57.68
1/22/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.5	67.1	56.65
1/23/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.225	66.795	56.3925
1/24/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.5	67.1	56.65
1/25/2008	40.3325	30.3875	29.835	49.725	64.6425	59.67	63.5375	67.405	72.3775	61.325	68.015	57.4225
1/28/2008	40.6975	30.6625	30.105	50.175	65.2275	60.21	64.1125	68.015	73.0325	61.6	68.32	57.68
1/29/2008	40.6975	30.6625	30.105	50.175	65.2275	60.21	64.1125	68.015	73.0325	61.6	68.32	57.68
1/30/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	60.5	67.1	56.65
1/31/2008	40.515	30.525	29.97	49.95	64.935	59.94	63.825	67.71	72.705	61.05	67.71	57.165
2/1/2008	39.712	29.92	29.376	48.96	63.648	58.752	62.56	66.368	71.264	60.39	66.978	56.547
2/4/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.5	67.1	56.65
2/5/2008	39.858	30.03	29.484	49.14	63.882	58.968	62.79	66.612	71.526	60.61	67.222	56.753
2/6/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	61.05	67.71	57.165
2/7/2008	39.9675	30.1125	29.565	49.275	64.0575	59.13	62.9625	66.795	71.7225	60.775	67.405	56.9075
2/8/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	60.94	67.588	57.062
2/11/2008	40.15	30.25	29.7	49.5	64.35	59.4	63.25	67.1	72.05	61.325	68.015	57.4225
2/12/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.775	67.405	56.9075
2/13/2008	39.785	29.975	29.43	49.05	63.765	58.86	62.675	66.49	71.395	60.775	67.405	56.9075
2/14/2008	40.6975	30.6625	30.105	50.175	65.2275	60.21	64.1125	68.015	73.0325	61.875	68.625	57.9375
2/15/2008	40.515	30.525	29.97	49.95	64.935	59.94	63.825	67.71	72.705	61.6	68.32	57.68
2/19/2008	41.0625	30.9375	30.375	50.625	65.8125	60.75	64.6875	68.625	73.6875	62.425	69.235	58.4525
2/20/2008	40.9165	30.8275	30.267	50.445	65.5785	60.534	64.4575	68.381	73.4255	62.315	69.113	58.3495
2/21/2008	40.88	30.8	30.24	50.4	65.52	60.48	64.4	68.32	73.36	62.15	68.93	58.195
2/22/2008	41.4275	31.2125	30.645	51.075	66.3975	61.29	65.2625	69.235	74.3425	62.7	69.54	58.71
2/25/2008	41.61	31.35	30.78	51.3	66.69	61.56	65.55	69.54	74.67	62.975	69.845	58.9675
2/26/2008	42.5225	32.0375	31.455	52.425	68.1525	62.91	66.9875	71.065	76.3075	64.075	71.065	59.9975
2/27/2008	41.975	31.625	31.05	51.75	67.275	62.1	66.125	70.15	75.325	63.8	70.76	59.74
2/28/2008	42.5225	32.0375	31.455	52.425	68.1525	62.91	66.9875	71.065	76.3075	64.35	71.37	60.255
2/29/2008	42.5225	32.0375	31.455	52.425	68.1525	62.91	66.9875	71.065	76.3075	64.625	71.675	60.5125
3/3/2008	42.34	31.9	31.32	52.2	67.86	62.64	66.7	70.76	75.98	64.625	71.675	60.5125
3/4/2008	42.34	31.9	31.32	52.2	67.86	62.64	66.7	70.76	75.98	64.35	71.37	60.255
3/5/2008	43.0846	32.461	31.8708	53.118	69.0534	63.7416	67.873	72.0044	77.3162	66.99	74.298	62.727
3/6/2008	42.8875	32.3125	31.725	52.875	68.7375	63.45	67.5625	71.675	76.9625	65.45	72.59	61.285
3/7/2008	42.705	32.175	31.59	52.65	68.445	63.18	67.275	71.37	76.635	65.175	72.285	61.0275
3/10/2008	42.34	31.9	31.32	52.2	67.86	62.64	66.7	70.76	75.98	64.9	71.98	60.77
3/11/2008	42.34	31.9	31.32	52.2	67.86	62.64	66.7	70.76	75.98	64.9	71.98	60.77
3/12/2008	42.5225	32.0375	31.455	52.425	68.1525	62.91	66.9875	71.065	76.3075	65.175	72.285	61.0275

3/13/2008	43.8	33	32.4	54	70.2	64.8	69	73.2	78.6	67.1	74.42	62.83
3/14/2008	43.435	32.725	32.13	53.55	69.615	64.26	68.425	72.59	77.945	67.1	74.42	62.83
3/17/2008	40.88	30.8	30.24	50.4	65.52	60.48	64.4	68.32	73.36	63.8	70.76	59.74
3/18/2008	41.245	31.075	30.51	50.85	66.105	61.02	64.975	68.93	74.015	64.35	71.37	60.255
3/19/2008	40.7705	30.7175	30.159	50.265	65.3445	60.318	64.2275	68.137	73.1635	63.36	70.272	59.328
3/20/2008	39.42	29.7	29.16	48.6	63.18	58.32	62.1	65.88	70.74	61.05	67.71	57.165
3/21/2008	37.8	28.08	27.54	45.36	59.4	57.24	59.4	63.18	68.04	68.265	74.925	64.38
3/24/2008	38.5	28.6	28.05	46.2	60.5	58.3	60.5	64.35	69.3	69.1875	75.9375	65.25
3/25/2008	39.655	29.458	28.8915	47.586	62.315	60.049	62.315	66.2805	71.379	71.217	78.165	67.164
3/26/2008	40.495	30.082	29.5035	48.594	63.635	61.321	63.635	67.6845	72.891	72.5085	79.5825	68.382
3/27/2008	40.18	29.848	29.274	48.216	63.14	60.844	63.14	67.158	72.324	71.955	78.975	67.86
3/28/2008	40.005	29.718	29.1465	48.006	62.865	60.579	62.865	66.8655	72.009	71.34	78.3	67.28
3/31/2008	42.84	32.13	31.535	51.765	63.665	61.88	63.07	66.64	72.59	74.97	82.11	70.805
4/1/2008	41.58	31.185	30.6075	50.2425	61.7925	60.06	61.215	64.68	70.455	72.765	79.695	68.7225
4/2/2008	41.4	31.05	30.475	50.025	61.525	59.8	60.95	64.4	70.15	72.135	79.005	68.1275
4/3/2008	40.86	30.645	30.0775	49.3725	60.7225	59.02	60.155	63.56	69.235	70.875	77.625	66.9375
4/4/2008	40.968	30.726	30.157	49.503	60.883	59.176	60.314	63.728	69.418	71.379	78.177	67.4135
4/7/2008	42.12	31.59	31.005	50.895	62.595	60.84	62.01	65.52	71.37	73.71	80.73	69.615
4/8/2008	41.76	31.32	30.74	50.46	62.06	60.32	61.48	64.96	70.76	73.395	80.385	69.3175
4/9/2008	42.12	31.59	31.005	50.895	62.595	60.84	62.01	65.52	71.37	73.71	80.73	69.615
4/10/2008	41.94	31.455	30.8725	50.6775	62.3275	60.58	61.745	65.24	71.065	73.395	80.385	69.3175
4/11/2008	41.58	31.185	30.6075	50.2425	61.7925	60.06	61.215	64.68	70.455	72.765	79.695	68.7225
4/14/2008	41.832	31.374	30.793	50.547	62.167	60.424	61.586	65.072	70.882	73.08	80.04	69.02
4/15/2008	42.66	31.995	31.4025	51.5475	63.3975	61.62	62.805	66.36	72.285	73.71	80.73	69.615
4/16/2008	43.02	32.265	31.6675	51.9825	63.9325	62.14	63.335	66.92	72.895	74.97	82.11	70.805
4/17/2008	43.02	32.265	31.6675	51.9825	63.9325	62.14	63.335	66.92	72.895	74.97	82.11	70.805
4/18/2008	43.74	32.805	32.1975	52.8525	65.0025	63.18	64.395	68.04	74.115	76.23	83.49	71.995
4/21/2008	45.18	33.885	33.2575	54.5925	67.1425	65.26	66.515	70.28	76.555	78.75	86.25	74.375
4/22/2008	45.9	34.425	33.7875	55.4625	68.2125	66.3	67.575	71.4	77.775	81.144	88.872	76.636
4/23/2008	46.8	35.1	34.45	56.55	69.55	67.6	68.9	72.8	79.3	82.404	90.252	77.826
4/24/2008	46.08	34.56	33.92	55.68	68.48	66.56	67.84	71.68	78.08	80.955	88.665	76.4575
4/25/2008	46.692	35.019	34.3705	56.4195	69.3895	67.444	68.741	72.632	79.117	81.081	88.803	76.5765
4/28/2008	46.62	34.965	34.3175	56.3325	69.2825	67.34	68.635	72.52	78.995	81.9	89.7	77.35
4/29/2008	45.54	34.155	33.5225	55.0275	67.6775	65.78	67.045	70.84	77.165	80.955	88.665	76.4575
4/30/2008	45.9	34.425	33.7875	55.4625	68.2125	66.3	67.575	71.4	77.775	81.711	89.493	77.1715
5/1/2008	45.18	33.885	33.2575	54.5925	67.1425	65.26	66.515	70.28	76.555	79.821	87.423	75.3865
5/2/2008	45.54	34.155	33.5225	55.0275	67.6775	65.78	67.045	70.84	77.165	80.955	88.665	76.4575
5/5/2008	46.26	34.695	34.0525	55.8975	68.7475	66.82	68.105	71.96	78.385	81.27	89.01	76.755
5/6/2008	47.582	36.008	35.365	55.941	68.801	66.872	68.158	72.016	78.446	80.352	88.128	75.816
5/7/2008	47.73	36.12	35.475	56.115	69.015	67.08	68.37	72.24	78.69	79.36	87.04	74.88
5/8/2008	47.73	36.12	35.475	56.115	69.015	67.08	68.37	72.24	78.69	79.36	87.04	74.88
5/9/2008	48.47	36.68	36.025	56.985	70.085	68.12	69.43	73.36	79.91	79.98	87.72	75.465
5/12/2008	47.841	36.204	35.5575	56.2455	69.1755	67.236	68.529	72.408	78.873	78.926	86.564	74.4705
5/13/2008	48.47	36.68	36.025	56.985	70.085	68.12	69.43	73.36	79.91	80.6	88.4	76.05
5/14/2008	48.655	36.82	36.1625	57.2025	70.3525	68.38	69.695	73.64	80.215	80.6	88.4	76.05
5/15/2008	48.84	36.96	36.3	57.42	70.62	68.64	69.96	73.92	80.52	80.6	88.4	76.05
5/16/2008	49.025	37.1	36.4375	57.6375	70.8875	68.9	70.225	74.2	80.825	80.29	88.06	75.7575
5/19/2008	49.58	37.52	36.85	58.29	71.69	69.68	71.02	75.04	81.74	82.77	90.78	78.0975
5/20/2008	51.43	38.92	38.225	60.465	74.365	72.28	73.67	77.84	84.79	86.18	94.52	81.315
5/21/2008	51.615	39.06	38.3625	60.6825	74.6325	72.54	73.935	78.12	85.095	86.18	94.52	81.315
5/22/2008	51.43	38.92	38.225	60.465	74.365	72.28	73.67	77.84	84.79	85.56	93.84	80.73
5/23/2008	51.43	38.92	38.225	60.465	74.365	72.28	73.67	77.84	84.79	85.25	93.5	80.4375
5/27/2008	51.245	38.78	38.0875	60.2475	74.0975	72.02	73.405	77.56	84.485	85.87	94.18	81.0225
5/28/2008	50.505	38.22	37.5375	59.3775	73.0275	70.98	72.345	76.44	83.265	83.7	91.8	78.975
5/29/2008	49.765	37.66	36.9875	58.5075	71.9575	69.94	71.285	75.32	82.045	84.32	92.48	79.56

5/30/2008	49.654	37.576	36.905	58.377	71.797	69.784	71.126	75.152	81.862	83.7	91.8	78.975
6/2/2008	50.135	37.94	37.2625	58.9425	72.4925	70.46	71.815	75.88	82.655	84.32	92.48	79.56
6/3/2008	50.135	37.94	37.2625	58.9425	72.4925	70.46	71.815	75.88	82.655	84.63	92.82	79.8525
6/4/2008	49.58	37.52	36.85	58.29	71.69	69.68	71.02	75.04	81.74	83.266	91.324	78.5655
6/5/2008	49.58	37.52	36.85	58.29	71.69	69.68	71.02	75.04	81.74	83.39	91.46	78.6825
6/6/2008	49.95	37.8	37.125	58.725	72.225	70.2	71.55	75.6	82.35	84.01	92.14	79.2675
6/9/2008	50.135	37.94	37.2625	58.9425	72.4925	70.46	71.815	75.88	82.655	83.7	91.8	78.975
6/10/2008	49.95	37.8	37.125	58.725	72.225	70.2	71.55	75.6	82.35	83.7	91.8	78.975
6/11/2008	50.135	37.94	37.2625	58.9425	72.4925	70.46	71.815	75.88	82.655	84.32	92.48	79.56
6/12/2008	50.135	37.94	37.2625	58.9425	72.4925	70.46	71.815	75.88	82.655	84.32	92.48	79.56
6/13/2008	51.06	38.64	37.95	60.03	73.83	71.76	73.14	77.28	84.18	85.56	93.84	80.73
6/16/2008	51.615	39.06	38.3625	60.6825	74.6325	72.54	73.935	78.12	85.095	86.8	95.2	81.9
6/17/2008	51.8	39.2	38.5	60.9	74.9	72.8	74.2	78.4	85.4	85.25	93.5	80.4375
6/18/2008	52.355	39.62	38.9125	61.5525	75.7025	73.58	74.995	79.24	86.315	86.18	94.52	81.315
6/19/2008	51.8	39.2	38.5	60.9	74.9	72.8	74.2	78.4	85.4	85.56	93.84	80.73
6/20/2008	52.17	39.48	38.775	61.335	75.435	73.32	74.73	78.96	86.01	86.18	94.52	81.315
6/23/2008	52.392	39.648	38.94	61.596	75.756	73.632	75.048	79.296	86.376	85.56	93.84	80.73
6/24/2008	52.17	39.48	38.775	61.335	75.435	73.32	74.73	78.96	86.01	85.87	94.18	81.0225
6/25/2008	52.17	39.48	38.775	61.335	75.435	73.32	74.73	78.96	86.01	86.18	94.52	81.315
6/26/2008	52.651	39.844	39.1325	61.9005	76.1305	73.996	75.419	79.688	86.803	86.986	95.404	82.0755
6/27/2008	52.429	39.676	38.9675	61.6395	75.8095	73.684	75.101	79.352	86.437	85.87	94.18	81.0225
6/30/2008	53.465	40.46	39.7375	62.8575	77.3075	75.14	76.585	80.92	88.145	86.18	94.52	81.315
7/1/2008	52.725	39.9	39.1875	61.9875	76.2375	74.1	75.525	79.8	86.925	85.56	93.84	80.73
7/2/2008	52.17	39.48	38.775	61.335	75.435	73.32	74.73	78.96	86.01	84.63	92.82	79.8525
7/3/2008	52.17	39.48	38.775	61.335	75.435	73.32	74.73	78.96	86.01	82.77	90.78	78.0975
7/7/2008	50.69	38.36	37.675	59.595	73.295	71.24	72.61	76.72	83.57	81.53	89.42	76.9275
7/8/2008	49.95	37.8	37.125	58.725	72.225	70.2	71.55	75.6	82.35	79.98	87.72	75.465
7/9/2008	49.21	37.24	36.575	57.855	71.155	69.16	70.49	74.48	81.13	80.29	88.06	75.7575
7/10/2008	49.21	37.24	36.575	57.855	71.155	69.16	70.49	74.48	81.13	77.19	84.66	72.8325
7/11/2008	49.21	37.24	36.575	57.855	71.155	69.16	70.49	74.48	81.13	78.12	85.68	73.71
7/14/2008	49.21	37.24	36.575	57.855	71.155	69.16	70.49	74.48	81.13	79.36	87.04	74.88
7/15/2008	47.73	36.12	35.475	56.115	69.015	67.08	68.37	72.24	78.69	75.64	82.96	71.37
7/16/2008	47.471	35.924	35.2825	55.8105	68.6405	66.716	67.999	71.848	78.263	75.33	82.62	71.0775
7/17/2008	46.435	35.14	34.5125	54.5925	67.1425	65.26	66.515	70.28	76.555	74.09	81.26	69.9075
7/18/2008	46.176	34.944	34.32	54.288	66.768	64.896	66.144	69.888	76.128	73.16	80.24	69.03
7/21/2008	45.88	34.72	34.1	53.94	66.34	64.48	65.72	69.44	75.64	72.23	79.22	68.1525
7/22/2008	45.51	34.44	33.825	53.505	65.805	63.96	65.19	68.88	75.03	71.92	78.88	67.86
7/23/2008	44.77	33.88	33.275	52.635	64.735	62.92	64.13	67.76	73.81	70.99	77.86	66.9825
7/24/2008	45.14	34.16	33.55	53.07	65.27	63.44	64.66	68.32	74.42	72.54	79.56	68.445
7/25/2008	47.385	34.6275	34.02	56.4975	69.255	66.825	65.0025	68.6475	74.7225	68.44	70.76	63.22
7/28/2008	44.955	34.02	33.4125	52.8525	65.0025	63.18	64.395	68.04	74.115	72.23	79.22	68.1525
7/29/2008	49.41	39.04	38.43	53.68	66.49	64.66	65.27	68.93	74.42	67.275	70.2	65.52
7/30/2008	49.815	39.36	38.745	54.12	67.035	65.19	65.805	69.495	75.03	67.85	70.8	66.08
7/31/2008	50.625	40	39.375	55	68.125	66.25	66.875	70.625	76.25	68.7125	71.7	66.92
8/1/2008	52.8525	41.76	41.1075	57.42	71.1225	69.165	69.8175	73.7325	79.605	71.5875	74.7	69.72
8/4/2008	51.6375	40.8	40.1625	56.1	69.4875	67.575	68.2125	72.0375	77.775	70.15	73.2	68.32
8/5/2008	50.22	39.68	39.06	54.56	67.58	65.72	66.34	70.06	75.64	68.7125	71.7	66.92
8/6/2008	50.22	39.68	39.06	54.56	67.58	65.72	66.34	70.06	75.64	68.7125	71.7	66.92
8/7/2008	48.6	38.4	37.8	52.8	65.4	63.6	64.2	67.8	73.2	66.7	69.6	64.96
8/8/2008	49.2075	38.88	38.2725	53.46	66.2175	64.395	65.0025	68.6475	74.115	67.275	70.2	65.52
8/11/2008	49.6125	39.2	38.5875	53.9	66.7625	64.925	65.5375	69.2125	74.725	67.5625	70.5	65.8
8/12/2008	49.005	38.72	38.115	53.24	65.945	64.13	64.735	68.365	73.81	66.9875	69.9	65.24
8/13/2008	49.41	39.04	38.43	53.68	66.49	64.66	65.27	68.93	74.42	67.275	70.2	65.52
8/14/2008	48.3975	38.8375	38.24	52.58	65.1275	63.335	63.9325	67.5175	72.895	65.8375	68.7	62.975
8/15/2008	48.195	38.675	38.08	52.36	64.855	63.07	63.665	67.235	72.59	66.41	69.2725	61.83

8/18/2008	47.9925	38.5125	37.92	52.14	64.5825	62.805	63.3975	66.9525	72.285	66.41	69.2725	61.83
8/19/2008	47.2	37.76	37.17	54.28	66.67	64.9	62.54	66.08	71.39	64.98	67.83	60.42
8/20/2008	47	37.6	37.0125	54.05	66.3875	64.625	62.275	65.8	71.0875	64.125	66.9375	59.625
8/21/2008	47.8	38.24	37.6425	54.97	67.5175	65.725	63.335	66.92	72.2975	65.265	68.1275	60.685
8/22/2008	46.6	37.28	36.6975	53.59	65.8225	64.075	61.745	65.24	70.4825	63.84	66.64	59.36
8/25/2008	47	37.6	37.0125	54.05	66.3875	64.625	62.275	65.8	71.0875	64.695	67.5325	60.155
8/26/2008	47.4	37.92	37.3275	54.51	66.9525	65.175	62.805	66.36	71.6925	65.55	68.425	60.95
8/27/2008	47.4	37.92	37.3275	54.51	66.9525	65.175	62.805	66.36	71.6925	65.55	68.425	60.95
8/28/2008	46.8	37.44	36.855	53.82	66.105	64.35	62.01	65.52	70.785	65.55	68.425	60.95
8/29/2008	48.6	38.88	38.2725	55.89	68.6475	66.825	64.395	68.04	73.5075	66.975	69.9125	62.275
9/2/2008	45.4	36.32	35.7525	52.21	64.1275	62.425	60.155	63.56	68.6675	63.555	66.3425	59.095
9/3/2008	45.4	36.32	35.7525	52.21	64.1275	62.425	60.155	63.56	68.6675	64.125	66.9375	59.625
9/4/2008	45.8	36.64	36.0675	52.67	64.6925	62.975	60.685	64.12	69.2725	64.125	66.9375	59.625
9/5/2008	46.6	37.28	36.6975	53.59	65.8225	64.075	61.745	65.24	70.4825	65.265	68.1275	60.685
9/8/2008	46.4	37.12	36.54	53.36	65.54	63.8	61.48	64.96	70.18	64.98	67.83	60.42
9/9/2008	45.6	36.48	35.91	52.44	64.41	62.7	60.42	63.84	68.97	63.84	66.64	59.36
9/10/2008	44.8	35.84	35.28	51.52	63.28	61.6	59.36	62.72	67.76	62.7	65.45	58.3
9/11/2008	44.6	35.68	35.1225	51.29	62.9975	61.325	59.095	62.44	67.4575	62.7	65.45	58.3
9/12/2008	44.6	35.68	35.1225	51.29	62.9975	61.325	59.095	62.44	67.4575	62.7	65.45	58.3
9/15/2008	44.4	35.52	34.965	51.06	62.715	61.05	58.83	62.16	67.155	62.7	65.45	58.3
9/16/2008	43.56	34.848	34.3035	50.094	61.5285	59.895	57.717	60.984	65.8845	61.788	64.498	57.452
9/17/2008	44.2	35.36	34.8075	50.83	62.4325	60.775	58.565	61.88	66.8525	62.13	64.855	57.77
9/18/2008	44.2	35.36	34.8075	50.83	62.4325	60.775	58.565	61.88	66.8525	61.56	64.26	57.24
9/19/2008	43.8	35.04	34.4925	50.37	61.8675	60.225	58.035	61.32	66.2475	61.56	64.26	57.24
9/22/2008	44.6	35.68	35.1225	51.29	62.9975	61.325	59.095	62.44	67.4575	62.7	65.45	58.3
9/23/2008	45.4	36.32	35.7525	52.21	64.1275	62.425	60.155	63.56	68.6675	62.985	65.7475	58.565
9/24/2008	44.6	35.68	35.1225	51.29	62.9975	61.325	59.095	62.44	67.4575	62.13	64.855	57.77
9/25/2008	44.8	35.84	35.28	51.52	63.28	61.6	59.36	62.72	67.76	62.7	65.45	58.3
9/26/2008	44.4	35.52	34.965	51.06	62.715	61.05	58.83	62.16	67.155	62.13	64.855	57.77
9/29/2008	42.6	34.08	33.5475	48.99	60.1725	58.575	56.445	59.64	64.4325	60.135	62.7725	55.915
9/30/2008	39.775	31.175	32.25	50.525	61.8125	60.2	60.7375	63.9625	68.8	63.13	58.315	53.5

Average LL	43.79	33.47	32.69	53.25	66.98	63.71	65.41	69.12	74.34	68.44	72.88	63.86
Max LL	53.47	41.76	41.11	62.86	77.31	75.14	76.59	80.92	88.15	86.99	95.40	82.08
Min LL	35.23	25.99	25.41	45.36	59.40	57.24	56.45	59.64	64.43	54.38	53.40	48.68
Spread	18.24	15.77	15.70	17.50	17.91	17.90	20.14	21.28	23.71	32.61	42.01	33.39

CONCEPT	Producer Price Index--Electric Power
SERIESTYPE	U.S. Macro - 30 Year Baseline
UNIT	(1982=1.0)
FREQUENCY	QUARTERLY
START DATE	1959 Q1
END DATE	2038 Q4
LAST UPDATE	9/1/2008
WEFA SERIES NAME	WPI054.Q
DRI SERIES NAME	USMACRO/MODTREND25YEAR:WPI054.Q
SHORT LABEL	Producer price index--electric power, Source: BLS
2002 Q3	1.3678717
2002 Q4	1.3737835
2003 Q1	1.3873475
2003 Q2	1.4047083
2003 Q3	1.4250914
2003 Q4	1.4267206
2004 Q1	1.4236884
2004 Q2	1.4251365
2004 Q3	1.4304516
2004 Q4	1.4521862
2005 Q1	1.4655223
2005 Q2	1.4772220
2005 Q3	1.5027887
2005 Q4	1.5595641
2006 Q1	1.6109517
2006 Q2	1.6203101
2006 Q3	1.6269420
2006 Q4	1.6214851
2007 Q1	1.6408801
2007 Q2	1.6669978
2007 Q3	1.6855896
2007 Q4	1.6980828
2008 Q1	1.7040011
2008 Q2	1.7485464
2008 Q3	1.7890000
2008 Q4	1.8300000
2009 Q1	1.8579440
2009 Q2	1.8629240
2009 Q3	1.8673600
2009 Q4	1.8685650
2010 Q1	1.8710430
2010 Q2	1.8788760
2010 Q3	1.8896930
2010 Q4	1.8995060
2011 Q1	1.9076150
2011 Q2	1.9160830
2011 Q3	1.9253540
2011 Q4	1.9351290
2012 Q1	1.9420770
2012 Q2	1.9487120
2012 Q3	1.9551540

IDAHO POWER COMPANY
Forward Price Curves Discounted for Inflation
Used to Re-Price Purchased Power and Surplus Sales for the October Update

<u>Line</u>		Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
1	Forward Curve Prices												
2	Relevant Quarter	2010 Q2	2010 Q2	2010 Q2	2010 Q3	2010 Q3	2010 Q3	2010 Q4	2010 Q4	2010 Q4	2011 Q1	2011 Q1	2011 Q1
3	Deflator	1.878876	1.878876	1.878876	1.889693	1.889693	1.889693	1.899506	1.899506	1.899506	1.907615	1.907615	1.907615
4	Water Year	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10
5	Relevant Quarter	2009 Q2	2009 Q2	2009 Q2	2009 Q3	2009 Q3	2009 Q3	2009 Q4	2009 Q4	2009 Q4	2010 Q1	2010 Q1	2010 Q1
6	Inflator	1.862924	1.862924	1.862924	1.86736	1.86736	1.86736	1.868565	1.868565	1.868565	1.871043	1.871043	1.871043
7	Average Prices	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
8	mcHL	58.96	52.82	50.63	77.63	91.23	87.51	78.61	81.05	86.30	84.43	81.53	72.73
9	mc LL	43.79	33.47	32.69	53.25	66.98	63.71	65.41	69.12	74.34	68.44	72.88	63.86
10	Inflation Adjusted	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10
11	mcHL	58.46	52.38	50.20	76.71	90.15	86.47	77.33	79.73	84.90	82.81	79.97	71.34
12	mc LL	43.42	33.18	32.41	52.62	66.19	62.96	64.34	68.00	73.13	67.13	71.48	62.64
13	Difference	Apr-10	May-10	Jun-10	Jul-10	Aug-10	Sep-10	Oct-10	Nov-10	Dec-10	Jan-11	Feb-11	Mar-11
14	mcHL	0.50	0.45	0.43	0.92	1.08	1.03	1.28	1.32	1.41	1.62	1.56	1.39
15	mc LL	0.37	0.28	0.28	0.63	0.79	0.75	1.07	1.13	1.21	1.31	1.40	1.22
16	Reallocated Prices	Apr-09	May-09	Jun-09	Jul-09	Aug-09	Sep-09	Oct-09	Nov-09	Dec-09	Jan-10	Feb-10	Mar-10
17	HL PP												
18	103.9%	60.74	54.42	52.16	79.70	93.67	89.84	80.34	82.84	88.21	86.04	83.08	74.12
19	LL PP												
20	107.1%	46.50	35.54	34.72	56.36	70.89	67.43	68.91	72.82	78.32	71.89	76.56	67.08
21	HL SS												
22	96.4%	56.35	50.49	48.39	73.95	86.91	83.36	74.54	76.86	81.84	79.83	77.09	68.77
23	LL SS												
24	93.4%	40.55	30.99	30.27	49.15	61.82	58.80	60.10	63.51	68.30	62.70	66.76	58.50

IPCO POWER SUPPLY COSTS FOR APRIL 1, 2009 -- MARCH 31, 2010 (Multiple Gas Prices/80 Years of Hydro)
 Repriced Using UE195 Settlement Methodology - October Update
 AVERAGE

Idaho Power/105
 Wright/1

	April	May	June	July	August	September	October	November	December	January	February	March	Annual
Hydroelectric Generation (MWh)	864,268.9	866,449.0	842,395.2	727,873.1	688,036.5	555,471.4	527,759.4	478,321.1	695,521.7	743,548.7	858,155.2	870,114.3	8,717,914.4
Bridger													
Energy (MWh)	330,372.1	330,372.1	428,840.3	455,179.3	455,179.3	440,496.2	455,179.3	440,496.2	455,179.3	455,179.3	411,129.7	422,142.1	5,079,745.4
Cost (\$ x 1000)	\$ 5,133.8	\$ 5,133.8	\$ 6,664.0	\$ 7,073.3	\$ 7,073.3	\$ 6,845.1	\$ 7,073.3	\$ 6,845.1	\$ 7,073.3	\$ 7,601.5	\$ 6,865.8	\$ 7,049.8	\$ 80,432.1
Boardman													
Energy (MWh)	30,792.7	6,392.0	28,290.6	40,374.4	41,028.5	39,535.2	40,964.6	39,719.5	41,066.5	38,760.0	34,978.8	39,147.2	421,050.2
Cost (\$ x 1000)	\$ 496.8	\$ 104.9	\$ 468.7	\$ 647.3	\$ 656.5	\$ 632.9	\$ 655.6	\$ 635.5	\$ 657.0	\$ 671.9	\$ 606.7	\$ 677.7	\$ 6,911.6
Valmy													
Energy (MWh)	88,794.9	157,300.2	151,305.6	172,629.2	173,134.0	166,567.6	172,369.6	168,284.1	174,155.7	167,557.9	150,014.8	166,282.6	1,908,396.2
Cost (\$ x 1000)	\$ 2,170.3	\$ 3,843.1	\$ 3,710.7	\$ 4,205.4	\$ 4,216.9	\$ 4,058.5	\$ 4,199.5	\$ 4,097.7	\$ 4,240.3	\$ 4,638.4	\$ 4,155.3	\$ 4,605.3	\$ 48,141.6
Danskin													
Energy (MWh)	74.1	0.9	330.7	18,206.7	9,634.2	1,142.4	548.8	4,734.4	2,232.6	1,154.4	416.3	60.2	38,535.5
Cost (\$ x 1000)	\$ 7.1	\$ 0.1	\$ 29.7	\$ 1,490.5	\$ 783.2	\$ 105.4	\$ 47.1	\$ 420.6	\$ 210.6	\$ 128.0	\$ 46.7	\$ 6.3	\$ 3,275.3
Fixed Capacity Charge - Gas Transportation (\$ x 1000)	\$ 315.5	\$ 296.9	\$ 315.5	\$ 306.2	\$ 315.5	\$ 306.2	\$ 315.5	\$ 315.5	\$ 306.2	\$ 315.5	\$ 306.2	\$ 315.5	\$ 3,730.3
Total Cost	\$ 322.6	\$ 297.0	\$ 345.2	\$ 1,796.7	\$ 1,098.7	\$ 411.6	\$ 362.6	\$ 736.1	\$ 516.8	\$ 443.5	\$ 352.9	\$ 321.8	\$ 7,005.5
Bennett Mountain													
Energy (MWh)	2.3	-	9.5	7,598.5	3,717.5	54.5	13.5	389.2	127.5	74.6	21.8	0.3	12,009.2
Cost (\$ x 1000)	\$ 0.2	\$ -	\$ 0.9	\$ 653.0	\$ 312.6	\$ 5.4	\$ 1.2	\$ 36.6	\$ 12.6	\$ 8.8	\$ 2.6	\$ 0.0	\$ 1,033.9
Fixed Capacity Charge - Gas Transportation (\$ x 1000)	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Total Cost	\$ 0.2	\$ -	\$ 0.9	\$ 653.0	\$ 312.6	\$ 5.4	\$ 1.2	\$ 36.6	\$ 12.6	\$ 8.8	\$ 2.6	\$ 0.0	\$ 1,033.9
Purchased Power (Excluding CSPP)													
Market Energy (MWh)	3,721.5	10,007.8	67,352.8	180,940.6	98,494.6	63,952.7	8,100.8	63,310.0	90,038.8	89,993.7	3,922.1	1,191.3	681,026.7
Contract Energy (MWh)	34,356.0	31,709.3	69,427.5	72,599.6	67,511.3	30,031.7	35,463.5	32,718.0	42,172.1	34,868.2	31,284.2	35,271.0	517,412.3
Total Energy Excl. CSPP (MWh)	38,077.5	41,717.1	136,780.3	253,540.2	166,005.9	93,984.4	43,564.3	96,028.0	132,210.8	124,861.9	35,206.3	36,462.3	1,198,439.0
Market Cost (\$ x 1000)	\$ 207.1	\$ 477.1	\$ 3,093.1	\$ 12,911.6	\$ 8,423.9	\$ 5,233.2	\$ 617.7	\$ 5,017.8	\$ 7,623.9	\$ 7,287.8	\$ 316.7	\$ 85.3	\$ 51,295.2
Contract Cost (\$ x 1000)	\$ 377.6	\$ 390.1	\$ 1,994.6	\$ 2,154.3	\$ 2,117.9	\$ 513.7	\$ 530.8	\$ 616.4	\$ 637.0	\$ 542.0	\$ 489.5	\$ 398.3	\$ 10,762.3
Total Cost Excl. CSPP (\$ x 1000)	\$ 584.6	\$ 867.2	\$ 5,087.7	\$ 15,065.9	\$ 10,541.8	\$ 5,746.9	\$ 1,148.5	\$ 5,634.2	\$ 8,260.9	\$ 7,829.7	\$ 806.2	\$ 483.6	\$ 62,057.4
Surplus Sales													
Energy (MWh)	359,504.4	277,925.4	209,709.9	21,331.5	16,545.5	79,388.9	153,818.8	58,243.3	75,350.8	126,879.7	332,120.6	404,014.9	2,114,833.7
Revenue Including Transmission Costs (\$ x 1000)	\$ 18,140.3	\$ 12,011.1	\$ 8,731.4	\$ 1,380.1	\$ 1,283.1	\$ 5,890.6	\$ 10,637.3	\$ 4,186.4	\$ 5,786.3	\$ 9,317.7	\$ 24,323.3	\$ 26,236.8	\$ 127,924.5
Transmission Costs (\$ x 1000)	\$ 359.5	\$ 277.9	\$ 209.7	\$ 21.3	\$ 16.5	\$ 79.4	\$ 153.8	\$ 58.2	\$ 75.4	\$ 126.9	\$ 332.1	\$ 404.0	\$ 2,114.8
Revenue Excluding Transmission Costs (\$ x 1000)	\$ 17,780.8	\$ 11,733.1	\$ 8,521.7	\$ 1,358.8	\$ 1,266.6	\$ 5,811.2	\$ 10,483.5	\$ 4,128.2	\$ 5,710.9	\$ 9,190.9	\$ 23,991.2	\$ 25,832.8	\$ 125,809.6
Net Hedges													
Energy (MWh)													
Cost (\$ x 1000)													
Net Power Supply Costs (\$ x 1000)	\$ (9,072.3)	\$ (1,487.1)	\$ 7,755.5	\$ 28,082.8	\$ 22,633.2	\$ 11,889.3	\$ 2,957.2	\$ 13,857.1	\$ 15,049.9	\$ 12,003.0	\$ (11,201.6)	\$ (12,694.5)	\$ 79,772.6
PURPA (\$ x 1000)	\$ 4,377.6	\$ 5,591.7	\$ 8,061.0	\$ 8,611.7	\$ 8,420.2	\$ 6,823.4	\$ 4,843.8	\$ 4,344.0	\$ 4,754.0	\$ 4,118.1	\$ 4,160.2	\$ 3,704.3	\$ 67,810.0
Total Net Power Supply Expense (\$ x 1000)	\$ (4,694.7)	\$ 4,104.6	\$ 15,816.5	\$ 36,694.6	\$ 31,053.4	\$ 18,712.7	\$ 7,801.1	\$ 18,201.1	\$ 19,803.9	\$ 16,121.0	\$ (7,041.4)	\$ (8,990.2)	\$ 147,582.6
Sales at Customer Level (In 000s MWH)	1,023,002	1,059,790	1,234,928	1,447,472	1,514,781	1,410,612	1,159,171	1,103,558	1,242,955	1,344,423	1,275,857	1,150,879	14,967,426
Hours in Month	720	744	720	744	744	720	744	720	744	744	672	744	8760
Unit Cost / MWH (for PCAM)	(\$4.59)	\$3.87	\$12.81	\$25.35	\$20.50	\$13.27	\$6.73	\$16.49	\$15.93	\$11.99	(\$5.52)	(\$7.81)	\$ 9.86
Prices Used in Purchased Power & Surplus Sales Above:													
Heavy Load													
Portion of Purchased Power considered HL Purchas	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%	64.25%
Purchased Power HL Price	60.74	54.42	52.16	79.70	93.67	89.84	80.34	82.84	88.21	86.04	83.08	74.12	
Portion of Surplus Sales considered HL Surplus Sal	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%
Surplus Sales HL Price	56.35	50.49	48.39	73.95	86.91	83.36	74.54	76.86	81.84	79.83	77.09	68.77	
Light Load													
Portion of Purchased Power considered LL Purchas	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%	35.75%
Purchased Power LL Price	46.50	35.54	34.72	56.36	70.89	67.43	68.91	72.82	78.32	71.89	76.56	67.08	
Portion of Surplus Sales considered LL Surplus Sal	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%	37.30%
Surplus Sales LL Price	40.55	30.99	30.27	49.15	61.82	58.80	60.10	63.51	68.30	62.70	66.76	58.50	

Idaho Power Company
Before the Public Utilities Commission of Oregon
State of Oregon
Current and Proposed Rates
12-Months Ending March 2009

<u>Tariff Description</u>	(1) Rate Schedule No	(2) Average No. of Customers	(3) Normalized kWh	(4) Oct 2007 Base Revenue	(5) Revenue Difference	(6) Oct 2008 Base Revenues	(7) Percent Change	(8) Mills per kWh
Uniform Tariff Rates:								
Residential Service	1	13,382	202,245,455	\$11,835,370	\$234,604	\$12,069,974	1.98%	59.6798
Small General Service	7	2,482	17,907,458	1,355,291	20,772	1,376,063	1.53%	76.8430
Large General Service	9	942	131,906,760	7,099,498	153,012	7,252,510	2.16%	54.9821
Dusk to Dawn Lighting	15	-	427,698	113,678	495	114,173	0.44%	266.9477
Large Power Service	19	8	275,841,256	10,425,388	319,976	10,745,364	3.07%	38.9549
Irrigation Service	24	1,457	63,726,546	3,129,171	73,923	3,203,094	2.36%	50.2631
Unmetered General Service	40	3	13,124	811	15	826	1.85%	62.9381
Municipal Street Lighting	41	13	842,094	113,052	976	114,028	0.86%	135.4101
Traffic Control Lighting	42	6	17,574	841	20	861	2.38%	48.9928
Total Uniform Tariffs		18,293	692,927,965	\$34,073,100	\$803,793	\$34,876,893	2.36%	50.3326

BEFORE THE PUBLIC UTILITY COMMISSION

OF OREGON

UE __

IN THE MATTER OF)
)
IDAHO POWER COMPANY'S 2008)
ANNUAL POWER COST UPDATE,)
OCTOBER UPDATE)
_____)

IDAHO POWER COMPANY

DIRECT TESTIMONY

OF

SCOTT L. WRIGHT

October 23, 2008

1 **Q. Please state your name, business address and present position with**
2 **Idaho Power Company (the Company).**

3 A. My name is Scott L. Wright. I am employed by Idaho Power Company as
4 a Pricing Analyst in the Pricing and Regulatory Services Department. My
5 business address is 1221 West Idaho Street, Boise, Idaho 83702.

6 **Q. Please describe your education background.**

7 A. I received a Bachelor of Science degree in Business Economics from
8 Eastern Oregon University. I have attended the Center for Public Utilities
9 College of Business Administration and Economics Practical Skills for a
10 Changing Electric course in Albuquerque, New Mexico.

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

12 A. In May 1998, I accepted a position as Research Assistant with Idaho
13 Power Company in the Pricing and Regulatory Services Department. In
14 March 2007, I was promoted to a Pricing Analyst. As a Pricing Analyst, I
15 am responsible for running the AURORAxmp model to calculate net power
16 supply expenses for ratemaking purposes, along with the marginal cost of
17 energy used in the Company's Marginal Cost Analysis. In December
18 2007, I was assigned the task of working on Bonneville Power
19 Administration's Average System Cost Methodology and the WP-07
20 Supplemental rate case proceeding. I also provide analytical support for
21 other regulatory activities within the Pricing and Regulatory Services
22 Department.

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

1 A. The purpose of my testimony is to describe the Company's October
2 Update for the 2009 Annual Power Cost Update (APCU), which is required
3 as detailed in Order No. 08-238.

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

5 A. The October Update is the Company's estimate of what "normal" power
6 supply expenses will be for an upcoming water year. In this case, the
7 water year is April 2009 through March 2010.

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

9 A. Yes.

10 **Q. Please describe the AURORA model and how it is used by the**
11 **Company?**

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

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

18 A. Order No. 08-238 identified a number of variables to be updated in the
19 AURORA model annually in October: Fuel prices, transportation costs,
20 maintenance rates, heat rates, and forced outage rates for the thermal
21 plants. This year's update is for the April 2009 through March 2010 test
22 year and reflects updated plant capacities for all company owned
23 resources as well as an updated Sales and Load Forecast.

1 Natural gas prices were updated using the forecast methodology
2 used in the Company's Integrated Resource Plan. This methodology uses
3 PIRA, NYMEX, NGX, EIA and Global Insights forecast data to develop a
4 normalized gas price that is used for ratemaking purposes. The
5 normalization process reduces volatility that may occur in the short term
6 market.

7 PURPA contracts and other wholesale contracts were updated to
8 reflect expected costs during the April 2009 through March 2010 test year.

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

11 A. Yes. Exhibit No. 101 shows the results of the variable power supply
12 expense normalization modeling for the April 2009 through March 2010
13 test year. Exhibit No. 101 shows the summary results containing the 80-
14 year average variable power supply generation sources and expenses.

15 **Q. Please summarize the sources and disposition of energy shown on**
16 **Exhibit No. 101.**

17 A. Hydro generation supplies 8.7 million megawatt-hours (MWh),
18 approximately 47 percent ($8.7 \text{ million MWh} / 18.5 \text{ million MWh} = 47$
19 percent) of the generation mix. Thermal generation supplies 7.4 million
20 MWh (Bridger 5.1, Boardman 0.4, Valmy 1.9), approximately 40 percent
21 ($7.4 \text{ million MWh} / 18.5 \text{ million MWh} = 40$ percent) of the generation mix.
22 Danskin and Bennett Mountain are peaking units, so they supply energy at
23 times when resources and/or transmission lines are constrained.

1 Purchases of power are made up of short term and longer term market
2 purchases, and PURPA. PURPA purchases are normalized and account
3 for nearly 1.2 million MWh. PURPA purchases are not included on Exhibit
4 No. 101; however, when combined with market purchases of 1.2 million
5 MWh, total purchases amount to 2.4 million MWh (1.2 million MWh + 1.2
6 million MWh = 2.4 million MWh) approximately 13 percent (2.4 million
7 MWh / 18.5 million MWh = 13 percent) of the generation mix. Of the 20.6
8 million MWh consumed, 18.5 million MWh are utilized for system loads
9 while over 2.1 million MWh are sold as surplus.

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

12 A. PURPA generation decreased from 189 average megawatts (aMW) to 133
13 aMW, a 56 aMW reduction. PURPA expenses also decreased from \$93.1
14 million to \$67.8 million, a \$25.3 million reduction. This reduction was
15 caused by several PURPA projects, mostly wind, failing to meet their
16 expected on-line dates.

17 **Q. Please describe the change in the Company's system loads since**
18 **last years October filing.**

19 A. The Company's annual normalized system load used in last year's April
20 2008 through March 2009 filing was 1,825 aMW. The Company's April
21 2009 through March 2010 annual normalized system load used in this
22 filing is 1,875 aMW, an approximate 2.7 percent increase.

23 **Q. What forward price curve did the Company use to re-price purchased**

1 **power and surplus sales?**

2 A. For the October Update, the Company used the methodology approved in
3 Order No. 08-238. This methodology uses a one year average of the daily
4 forward price curves for April 2010 through March 2011 shown in Exhibit
5 No. 102, which is then discounted for inflation back to April 2009 through
6 March 2010 according to the quarterly inflation indices provided on Exhibit
7 No. 103.

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

11 A. Exhibit No.104 shows the revised monthly prices for April 2009 through
12 March 2010. These are considered the “normal” forward prices used to
13 re-price the Company’s purchased power and surplus sales estimates for
14 the normalized test year.

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

18 A. Exhibit No. 101 shows the purchased power expenses and surplus sales
19 revenues before re-pricing. Exhibit No. 105 shows the same normalized
20 generation dispatch, with purchased power and surplus sales re-priced
21 using the normalized forward price curve shown in Exhibit No. 104. A
22 comparison of Exhibit No. 101 and Exhibit No. 105 demonstrates the
23 changes due to re-pricing. Purchased power expenses increase by \$0.4

1 million, moving from \$50.9 million to \$51.3 million. Surplus sales
2 revenues increase by \$21.1 million, moving from \$106.8 million to \$127.9
3 million.

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

7 A. Yes, it does.

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

10 A. Exhibit No. 105 shows the normalized annual sales at customer level for
11 the April 2009 through March 2010 test year are 14,967,426 MWh. Based
12 upon test year sales, the cost per unit for the October Update to become
13 effective on June 1, 2009 is \$9.86 per MWh (\$147.6 million / 14.967
14 million MWh = \$9.86 per MWh).

15 **Q. How does this \$9.86 per MWh October Update compare to the**
16 **October Update that resulted from last year's computation?**

17 A. The October Update unit cost that was part of the Combined Rate which
18 became effective June 1, 2008 was \$8.70 per MWh. This year's October
19 Update of \$9.86 per MWh equates to an increase of \$1.16 per MWh
20 (\$9.86 – \$8.70 = \$1.16).

21 **Q. Have you prepared or supervised the preparation of an exhibit**
22 **showing the summary of revenue impact resulting from the October**
23 **Update proposed by the Company?**

1 A. Yes. Exhibit No. 106 provides a summary of the revenue change resulting
2 from this year's October Update as compared to last year's October
3 Update.

4 **Q. What is the overall revenue impact of this year's October Update?**

5 A. The overall revenue impact of the October Update is a 2.36% increase.

6 **Q. Please explain the components that make up the Adjustment Rates
7 on Schedule 55.**

8 A. The October Update, as described by this filing, is combined with the
9 March Forecast Rate, to create a Combined Rate. The Adjustment Rates
10 detailed in Schedule 55 are the difference between the Combined Rate
11 and the Base Rate established in UE 167.

12 **Q. What are the Adjustment Rates as a result of this October Update?**

13 A. For purposes of this filing, the Combined Rate was calculated using the
14 October Update of \$9.86 per MWh plus the current March Forecast Rate
15 for April 2008 through March 2009 of \$1.52 per MWh. The Combined
16 Rate equates to \$11.38 per MWh ($\$9.86 + \$1.52 = \11.38). The
17 Adjustment Rates are the difference between the Combined Rate of
18 \$11.38 per MWh and the current Base Rate of \$3.47 per MWh,
19 established in UE 167. This difference is \$7.91 per MWh ($\$11.38 - \3.47
20 $= \$7.91$). The Adjustment Rates are 0.7910 cents per kilowatt-hour.

21 **Q. Has the Company filed a draft tariff sheet that reflects the proposed
22 change?**

23 A. Yes. Attached as Exhibit 107 is a draft Schedule 55 that reflects the

1 October Update which will serve as a placeholder until the March Forecast
2 for the April 2009 through March 2010 test year has been run. When the
3 March Forecast run is complete, a new Schedule 55 will be filed to reflect
4 the new Adjustment Rates. Rates will become effective on June 1, 2009.

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

6 A. Yes it does.

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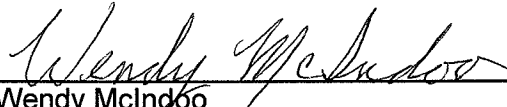
CERTIFICATE OF SERVICE

I hereby certify that I served a true and correct copy of the foregoing document in UE _____ 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.

Stephanie S. Andrus
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Bob Jenks
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DATED: October 23, 2008.



Wendy McIndoo
Legal Assistant