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PUBLIC SERVICE
COMMISSION
Louisville Gas and
Electric Company
State Regulation and Rates
220 West Main Street
P.O. Box 32010
Louisville, Kentucky 40232
www.lge-ku.com

Ms Gwen R. Pinson
Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
Frankfort, Kentucky 40601

Rick E. Lovekamp
Manager Regulatory
Affairs/Tariffs
T 502-627-3780
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October 13, 2017

**RE: Louisville Gas and Electric Company Alleged Failure to Comply with
KRS 278.495, 807 KAR 5:022, and 49 C.F.R. Part 192
Case No. 2017-00119**

Dear Ms. Pinson:

Enclosed please find and accept an original and ten copies for filing of Louisville Gas and Electric Company's Responses to the Commission Staffs Second Request for Information in the above referenced matter.

Should you have any questions regarding the enclosed, please contact me at your convenience.

Sincerely,

Rick E. Lovekamp

COMMONWEALTH OF KENTUCKY

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BEFORE THE PUBLIC SERVICE COMMISSION

OCT 13 2017

PUBLIC SERVICE
COMMISSION

In the Matter of:

| | |
|--|---|
| LOUISVILLE GAS AND ELECTRIC COMPANY |) |
| _____ |) |
| ALLEGED FAILURE TO COMPLY |) |
| WITH KRS 278.495, 807 KAR 5:022, |) |
| AND 49 C.F.R. PART 192 |) |

CASE NO.
2017-00119

**RESPONSE OF
LOUISVILLE GAS AND ELECTRIC COMPANY
TO
COMMISSION STAFF'S SECOND REQUEST FOR INFORMATION
DATED OCTOBER 4, 2017**

FILED: October 13, 2017

LOUISVILLE GAS AND COMPANY

Response to Commission Staff's Second Request for Information
Dated October 13, 2017

Case No. 2017-00119

Question No. 1

Witness: Lonnie E. Bellar

Q-1. Refer to LG&E's Responses to the requests for information listed in the Appendix to the Order entered May 18, 2017.

- a. Provide an update to LG&E's response to Item 1 regarding mechanical coupling systems on the Ballardsville gas transmission pipeline system. Without limitation, this update should provide information regarding any additional mechanical coupling systems identified by LG&E on the Ballardsville pipeline system, including whether LG&E determined whether a mechanical coupling was installed on the 2-inch branch line referenced in LG&E's response to Item 1.a.
- b. State whether LG&E performed, or caused to be performed, any testing or inspection of the mechanical coupling systems removed from the Ballardsville natural gas transmission system, other than the one involved in the September 17, 2014 incident. If so, state whether such testing/inspection identified any defects in the coupling systems, as installed, and provide records and documentation of the testing/inspection.

A-1.

- a. LG&E has reviewed Ballardsville transmission pipeline records, including available inline inspection data, and has not identified any mechanical couplings on LG&E's Ballardsville transmission pipeline system which are currently in service. The 2-inch branch line which LG&E believed had a mechanical coupling was abandoned in place on October 5, 2016. Abandonment in place is a common industry practice. Since the Company did not excavate the portion of the pipeline in the possible location of the coupling, the presence of a coupling was not verified. There are mechanical couplings on the distribution system downstream from the transmission pipeline.
- b. LG&E removed from service five mechanical couplings (four on 8-inch pipeline and one on 2-inch pipeline as discussed in part a) from the Ballardsville pipeline system since the September 17, 2014 incident other than the mechanical coupling involved in the incident. The Gas Technology Institute performed inspection and testing of two 8-inch mechanical couplings previously installed on the 8-inch Ballardsville 42N pipeline in the vicinity of the failed 12-inch coupling. Documentation of the inspection and testing is included in the Gas Technology Institute report "Failure Analysis

Response to Question No. 1

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Investigation of a 12" Pipe Coupling System" previously provided to the Commission. On the first 8-inch coupling, inspection and testing revealed that one of the eight brackets had begun to detach from the pipe and that another bracket had some distortion. On the second 8-inch coupling, inspection and testing revealed that two of the eight brackets had some distortion. Two other couplings on the 8-inch pipeline were removed in September 2015 and no formal analysis was performed.

LOUISVILLE GAS AND COMPANY

Response to Commission Staff's Second Request for Information
Dated October 13, 2017

Case No. 2017-00119

Question No. 2

Witness: Lonnie E. Bellar

- Q-2. Provide a spreadsheet in electronic Excel format showing pressure records for the Ballardsville gas pipeline system for the period from installation of the coupling system involved in the September 17, 2016 incident through April 30, 2011, and state the total number of days during this period that the operating pressure of the Ballardsville pipeline system exceeded 300 psig.
- A-2. The Company's initial review of the records indicates that the Ballardsville transmission pipeline operating pressure exceeded 300 psig 72 days over the January 5, 1998 to April 30, 2011 time period. However, on a number of those days, the Company experienced anomalies in the data that could have been caused by SCADA communication or other system disruptions. As a result the actual number of exceedances may be less than 72 days. The Company is continuing to investigate and will supplement the response if necessary. A spreadsheet in electronic Excel format containing Ballardsville transmission pipeline operating pressures is attached.

Ballardsville Pipeline Pressure Data

| Time | Pressure Minimum (psig) | Pressure Maximum (psig) |
|-------------|--------------------------------|--------------------------------|
| 1/5/1998 | 78.6 | 83.8 |
| 1/6/1998 | 63.1 | 96.0 |
| 1/7/1998 | 64.4 | 100.5 |
| 1/8/1998 | 62.5 | 261.0 |
| 1/9/1998 | 256.4 | 262.9 |
| 1/10/1998 | 259.7 | 262.9 |
| 1/11/1998 | 255.2 | 262.9 |
| 1/12/1998 | 255.2 | 265.5 |
| 1/13/1998 | 257.7 | 264.2 |
| 1/14/1998 | 253.9 | 263.5 |
| 1/15/1998 | 255.8 | 264.2 |
| 1/16/1998 | 253.9 | 279.0 |
| 1/17/1998 | 256.4 | 262.2 |
| 1/18/1998 | 253.2 | 262.9 |
| 1/19/1998 | 257.1 | 277.1 |
| 1/20/1998 | 250.6 | 262.9 |
| 1/21/1998 | 255.2 | 259.0 |
| 1/22/1998 | 255.8 | 261.0 |
| 1/23/1998 | 259.0 | 261.6 |
| 1/24/1998 | 255.8 | 261.6 |
| 1/25/1998 | 255.2 | 259.0 |
| 1/26/1998 | 255.8 | 262.9 |
| 1/27/1998 | 256.4 | 262.9 |
| 1/28/1998 | 256.4 | 264.8 |
| 1/29/1998 | 255.8 | 265.5 |
| 1/30/1998 | 256.4 | 265.5 |
| 1/31/1998 | 254.5 | 261.6 |
| 2/1/1998 | 255.2 | 259.7 |
| 2/2/1998 | 253.2 | 260.3 |
| 2/3/1998 | 255.8 | 264.8 |
| 2/4/1998 | 255.2 | 264.8 |
| 2/5/1998 | 253.2 | 265.5 |
| 2/6/1998 | 260.3 | 265.5 |
| 2/7/1998 | 252.6 | 262.9 |
| 2/8/1998 | 252.6 | 265.5 |
| 2/9/1998 | 253.2 | 266.1 |
| 2/10/1998 | 255.8 | 264.2 |
| 2/11/1998 | 252.6 | 264.2 |
| 2/12/1998 | 256.4 | 264.8 |
| 2/13/1998 | 253.2 | 264.8 |
| 2/14/1998 | 255.2 | 261.6 |
| 2/15/1998 | 254.5 | 265.5 |
| 2/16/1998 | 256.4 | 264.8 |
| 2/17/1998 | 250.0 | 259.0 |
| 2/18/1998 | 251.9 | 264.2 |
| 2/19/1998 | 257.1 | 263.5 |

Attachment to Response to PSC-2 Question No. 2

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| | | |
|-----------|-------|-------|
| 2/20/1998 | 253.2 | 257.7 |
| 2/21/1998 | 255.8 | 263.5 |
| 2/22/1998 | 248.7 | 263.5 |
| 2/23/1998 | 255.2 | 261.6 |
| 2/24/1998 | 254.5 | 264.2 |
| 2/25/1998 | 253.9 | 262.9 |
| 2/26/1998 | 254.5 | 256.4 |
| 2/27/1998 | 250.6 | 264.2 |
| 2/28/1998 | 252.6 | 256.4 |
| 3/1/1998 | 253.2 | 262.9 |
| 3/2/1998 | 254.5 | 261.6 |
| 3/3/1998 | 256.4 | 262.2 |
| 3/4/1998 | 252.6 | 261.0 |
| 3/5/1998 | 248.7 | 262.9 |
| 3/6/1998 | 250.6 | 259.0 |
| 3/7/1998 | 251.9 | 259.0 |
| 3/8/1998 | 249.4 | 257.7 |
| 3/9/1998 | 253.9 | 273.2 |
| 3/10/1998 | 253.2 | 280.9 |
| 3/11/1998 | 252.6 | 278.4 |
| 3/12/1998 | 257.1 | 289.9 |
| 3/13/1998 | 253.9 | 268.0 |
| 3/14/1998 | 254.5 | 260.3 |
| 3/15/1998 | 253.9 | 262.9 |
| 3/16/1998 | 253.9 | 261.0 |
| 3/17/1998 | 253.9 | 261.6 |
| 3/18/1998 | 254.5 | 257.7 |
| 3/19/1998 | 252.6 | 260.3 |
| 3/20/1998 | 252.6 | 261.6 |
| 3/21/1998 | 251.9 | 266.1 |
| 3/22/1998 | 253.2 | 261.6 |
| 3/23/1998 | 253.2 | 262.9 |
| 3/24/1998 | 249.4 | 258.4 |
| 3/25/1998 | 250.0 | 265.5 |
| 3/26/1998 | 253.9 | 255.2 |
| 3/27/1998 | 252.6 | 255.2 |
| 3/28/1998 | 250.6 | 253.2 |
| 3/29/1998 | 250.0 | 259.0 |
| 3/30/1998 | 251.3 | 269.3 |
| 3/31/1998 | 249.4 | 255.8 |
| 4/1/1998 | 253.9 | 263.5 |
| 4/2/1998 | 250.6 | 260.3 |
| 4/3/1998 | 249.4 | 260.3 |
| 4/4/1998 | 248.7 | 257.1 |
| 4/5/1998 | 250.0 | 261.0 |
| 4/6/1998 | 249.4 | 255.2 |
| 4/7/1998 | 250.0 | 251.9 |
| 4/8/1998 | 250.0 | 255.8 |
| 4/9/1998 | 250.0 | 261.6 |

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|-----------|-------|-------|
| 4/10/1998 | 251.3 | 264.2 |
| 4/11/1998 | 249.4 | 257.1 |
| 4/12/1998 | 248.7 | 253.9 |
| 4/13/1998 | 250.0 | 261.6 |
| 4/14/1998 | 249.4 | 254.5 |
| 4/15/1998 | 251.3 | 254.5 |
| 4/16/1998 | 251.9 | 257.1 |
| 4/17/1998 | 249.4 | 255.2 |
| 4/18/1998 | 250.0 | 257.1 |
| 4/19/1998 | 248.7 | 264.2 |
| 4/20/1998 | 250.0 | 257.7 |
| 4/21/1998 | 250.0 | 260.3 |
| 4/22/1998 | 252.6 | 257.7 |
| 4/23/1998 | 253.2 | 261.0 |
| 4/24/1998 | 252.6 | 261.0 |
| 4/25/1998 | 253.9 | 255.2 |
| 4/26/1998 | 250.6 | 259.0 |
| 4/27/1998 | 253.9 | 260.3 |
| 4/28/1998 | 248.7 | 258.4 |
| 4/29/1998 | 248.7 | 264.8 |
| 4/30/1998 | 251.9 | 255.8 |
| 5/1/1998 | 250.0 | 256.4 |
| 5/2/1998 | 250.0 | 255.2 |
| 5/3/1998 | 250.0 | 264.2 |
| 5/4/1998 | 253.2 | 262.2 |
| 5/5/1998 | 252.6 | 266.1 |
| 5/6/1998 | 253.9 | 260.3 |
| 5/7/1998 | 253.9 | 260.3 |
| 5/8/1998 | 253.2 | 258.4 |
| 5/9/1998 | 250.6 | 254.5 |
| 5/10/1998 | 253.2 | 255.8 |
| 5/11/1998 | 253.9 | 257.1 |
| 5/12/1998 | 250.6 | 256.4 |
| 5/13/1998 | 251.3 | 286.1 |
| 5/14/1998 | 249.4 | 291.9 |
| 5/15/1998 | 250.0 | 266.8 |
| 5/16/1998 | 250.0 | 264.8 |
| 5/17/1998 | 251.9 | 265.5 |
| 5/18/1998 | 251.3 | 266.8 |
| 5/19/1998 | 249.4 | 265.5 |
| 5/20/1998 | 251.3 | 268.0 |
| 5/21/1998 | 251.3 | 291.9 |
| 5/22/1998 | 255.2 | 262.9 |
| 5/23/1998 | 250.0 | 255.2 |
| 5/24/1998 | 250.6 | 255.2 |
| 5/25/1998 | 252.6 | 258.4 |
| 5/26/1998 | 251.9 | 257.1 |
| 5/27/1998 | 251.9 | 258.4 |
| 5/28/1998 | 248.7 | 280.3 |

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|-----------|-------|-------|
| 5/29/1998 | 248.7 | 291.9 |
| 5/30/1998 | 248.7 | 250.0 |
| 5/31/1998 | 248.7 | 253.2 |
| 6/1/1998 | 251.9 | 261.0 |
| 6/2/1998 | 252.6 | 277.7 |
| 6/3/1998 | 255.2 | 256.4 |
| 6/4/1998 | 255.2 | 256.4 |
| 6/5/1998 | 252.6 | 260.3 |
| 6/6/1998 | 252.6 | 255.2 |
| 6/7/1998 | 251.9 | 256.4 |
| 6/8/1998 | 255.2 | 257.7 |
| 6/9/1998 | 253.9 | 256.4 |
| 6/10/1998 | 252.6 | 255.8 |
| 6/11/1998 | 253.2 | 255.2 |
| 6/12/1998 | 251.9 | 272.6 |
| 6/13/1998 | 250.6 | 251.9 |
| 6/14/1998 | 250.6 | 253.9 |
| 6/15/1998 | 252.6 | 259.0 |
| 6/16/1998 | 252.6 | 254.5 |
| 6/17/1998 | 252.6 | 254.5 |
| 6/18/1998 | 249.4 | 273.2 |
| 6/19/1998 | 251.3 | 266.1 |
| 6/20/1998 | 229.4 | 254.5 |
| 6/21/1998 | 228.1 | 259.0 |
| 6/22/1998 | 251.3 | 301.5 |
| 6/23/1998 | 250.6 | 286.1 |
| 6/24/1998 | 250.0 | 317.0 |
| 6/25/1998 | 255.2 | 306.1 |
| 6/26/1998 | 226.8 | 304.1 |
| 6/27/1998 | 213.9 | 292.5 |
| 6/28/1998 | 248.1 | 269.3 |
| 6/29/1998 | 213.3 | 266.8 |
| 6/30/1998 | 212.6 | 268.0 |
| 7/1/1998 | 266.1 | 284.8 |
| 7/2/1998 | 266.8 | 270.6 |
| 7/3/1998 | 265.5 | 267.4 |
| 7/4/1998 | 266.1 | 268.0 |
| 7/5/1998 | 266.8 | 278.4 |
| 7/6/1998 | 276.4 | 282.2 |
| 7/7/1998 | 269.3 | 306.7 |
| 7/8/1998 | 256.4 | 309.9 |
| 7/9/1998 | 259.0 | 300.9 |
| 7/10/1998 | 258.4 | 268.7 |
| 7/11/1998 | 268.0 | 269.3 |
| 7/12/1998 | 267.4 | 273.8 |
| 7/13/1998 | 266.1 | 273.2 |
| 7/14/1998 | 266.1 | 305.4 |
| 7/15/1998 | 268.7 | 282.2 |
| 7/16/1998 | 268.7 | 270.6 |

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|-----------|-------|-------|
| 7/17/1998 | 267.4 | 270.0 |
| 7/18/1998 | 266.1 | 268.7 |
| 7/19/1998 | 262.9 | 267.4 |
| 7/20/1998 | 262.9 | 274.5 |
| 7/21/1998 | 266.8 | 287.4 |
| 7/22/1998 | 0.0 | NA |
| 7/23/1998 | 264.2 | 271.3 |
| 7/24/1998 | 265.5 | 268.0 |
| 7/25/1998 | 266.1 | NA |
| 7/26/1998 | 266.1 | 266.8 |
| 7/27/1998 | 265.5 | 269.3 |
| 7/28/1998 | 266.1 | 271.3 |
| 7/29/1998 | 266.8 | 270.6 |
| 7/30/1998 | 266.8 | 271.9 |
| 7/31/1998 | 267.4 | 270.6 |
| 8/1/1998 | 262.9 | 267.4 |
| 8/2/1998 | 262.2 | 271.3 |
| 8/3/1998 | 261.6 | 270.6 |
| 8/4/1998 | 264.8 | 266.1 |
| 8/5/1998 | 264.2 | 266.1 |
| 8/6/1998 | 263.5 | 265.5 |
| 8/7/1998 | 263.5 | 271.3 |
| 8/8/1998 | 266.1 | 268.0 |
| 8/9/1998 | 266.8 | 272.6 |
| 8/10/1998 | 266.8 | 271.9 |
| 8/11/1998 | 265.5 | 271.3 |
| 8/12/1998 | 268.7 | 277.1 |
| 8/13/1998 | 266.8 | 277.1 |
| 8/14/1998 | 268.0 | 270.6 |
| 8/15/1998 | 266.1 | 268.0 |
| 8/16/1998 | 266.1 | 268.0 |
| 8/17/1998 | 265.5 | 294.5 |
| 8/18/1998 | 265.5 | 306.1 |
| 8/19/1998 | 264.2 | 275.1 |
| 8/20/1998 | 267.4 | 272.6 |
| 8/21/1998 | 265.5 | 268.7 |
| 8/22/1998 | 261.6 | 266.8 |
| 8/23/1998 | 260.3 | 271.3 |
| 8/24/1998 | 262.2 | 297.0 |
| 8/25/1998 | 262.2 | 284.8 |
| 8/26/1998 | 262.2 | 294.5 |
| 8/27/1998 | 262.9 | 280.3 |
| 8/28/1998 | 264.2 | 287.4 |
| 8/29/1998 | 262.9 | 265.5 |
| 8/30/1998 | 262.2 | 265.5 |
| 8/31/1998 | 263.5 | 288.7 |
| 9/1/1998 | 261.6 | 270.0 |
| 9/2/1998 | 262.9 | 277.7 |
| 9/3/1998 | 265.5 | 277.1 |

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| | | |
|------------|-------|-------|
| 9/4/1998 | 260.3 | 273.8 |
| 9/5/1998 | 261.6 | 262.9 |
| 9/6/1998 | 261.6 | 263.5 |
| 9/7/1998 | 262.2 | 267.4 |
| 9/8/1998 | 266.1 | 268.0 |
| 9/9/1998 | 265.5 | 268.0 |
| 9/10/1998 | 265.5 | 268.7 |
| 9/11/1998 | 264.8 | 268.0 |
| 9/12/1998 | 262.2 | 266.1 |
| 9/13/1998 | 261.6 | 273.2 |
| 9/14/1998 | 262.9 | 293.2 |
| 9/15/1998 | 266.1 | 275.8 |
| 9/16/1998 | 266.1 | 286.7 |
| 9/17/1998 | 266.8 | 276.4 |
| 9/18/1998 | 259.0 | 275.8 |
| 9/19/1998 | 257.7 | 259.7 |
| 9/20/1998 | 257.1 | 261.6 |
| 9/21/1998 | 256.4 | 275.8 |
| 9/22/1998 | 257.7 | 262.2 |
| 9/23/1998 | 257.1 | 266.8 |
| 9/24/1998 | 256.4 | 260.3 |
| 9/25/1998 | 255.8 | 257.1 |
| 9/26/1998 | 255.2 | 257.1 |
| 9/27/1998 | 255.8 | 267.4 |
| 9/28/1998 | 256.4 | 287.4 |
| 9/29/1998 | 255.8 | 259.7 |
| 9/30/1998 | 256.4 | 257.7 |
| 10/1/1998 | 256.4 | 264.8 |
| 10/2/1998 | 257.7 | 264.2 |
| 10/3/1998 | 255.2 | 258.4 |
| 10/4/1998 | 255.8 | 264.2 |
| 10/5/1998 | 261.0 | 268.7 |
| 10/6/1998 | 257.7 | 264.8 |
| 10/7/1998 | 259.0 | 271.3 |
| 10/8/1998 | 264.2 | 271.3 |
| 10/9/1998 | 261.0 | 266.1 |
| 10/10/1998 | 258.4 | 265.5 |
| 10/11/1998 | 256.4 | 268.7 |
| 10/12/1998 | 255.8 | 268.7 |
| 10/13/1998 | 258.4 | 264.2 |
| 10/14/1998 | 262.9 | 265.5 |
| 10/15/1998 | 259.7 | 264.2 |
| 10/16/1998 | 259.7 | 261.6 |
| 10/17/1998 | 257.7 | 261.0 |
| 10/18/1998 | 257.1 | 258.4 |
| 10/19/1998 | 257.1 | 264.8 |
| 10/20/1998 | 261.6 | 264.2 |
| 10/21/1998 | 258.4 | 263.5 |
| 10/22/1998 | 255.2 | 266.8 |

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| | | |
|------------|-------|-------|
| 10/23/1998 | 255.2 | 268.0 |
| 10/24/1998 | 261.0 | 263.5 |
| 10/25/1998 | 261.6 | 263.5 |
| 10/26/1998 | 259.0 | 262.2 |
| 10/27/1998 | 259.7 | 261.0 |
| 10/28/1998 | 255.8 | 261.6 |
| 10/29/1998 | 253.9 | 261.6 |
| 10/30/1998 | 251.9 | 255.8 |
| 10/31/1998 | 251.3 | 252.6 |
| 11/1/1998 | 251.3 | 256.4 |
| 11/2/1998 | 256.4 | 257.7 |
| 11/3/1998 | 255.8 | 261.0 |
| 11/4/1998 | 255.2 | 262.2 |
| 11/5/1998 | 257.1 | 262.2 |
| 11/6/1998 | 257.1 | 261.6 |
| 11/7/1998 | 257.1 | 260.3 |
| 11/8/1998 | 257.1 | 259.0 |
| 11/9/1998 | 254.5 | 258.4 |
| 11/10/1998 | 254.5 | 256.4 |
| 11/11/1998 | 255.2 | 261.6 |
| 11/12/1998 | 253.9 | 263.5 |
| 11/13/1998 | 255.8 | 261.6 |
| 11/14/1998 | 255.8 | 260.3 |
| 11/15/1998 | 253.2 | 261.0 |
| 11/16/1998 | 255.8 | 262.2 |
| 11/17/1998 | 255.2 | 262.2 |
| 11/18/1998 | 255.2 | 259.7 |
| 11/19/1998 | 258.4 | 260.3 |
| 11/20/1998 | 253.2 | 261.0 |
| 11/21/1998 | 254.5 | 263.5 |
| 11/22/1998 | 258.4 | 263.5 |
| 11/23/1998 | 251.9 | 263.5 |
| 11/24/1998 | 253.9 | 260.3 |
| 11/25/1998 | 254.5 | 259.7 |
| 11/26/1998 | 251.9 | 260.3 |
| 11/27/1998 | 253.2 | 259.7 |
| 11/28/1998 | 255.8 | 260.3 |
| 11/29/1998 | 253.2 | 256.4 |
| 11/30/1998 | 254.5 | 255.8 |
| 12/1/1998 | 254.5 | 261.0 |
| 12/2/1998 | 257.7 | 262.2 |
| 12/3/1998 | 255.8 | 260.3 |
| 12/4/1998 | 235.2 | 259.0 |
| 12/5/1998 | 221.6 | 257.1 |
| 12/6/1998 | 257.1 | 258.4 |
| 12/7/1998 | 256.4 | 263.5 |
| 12/8/1998 | 262.2 | 270.0 |
| 12/9/1998 | 257.7 | 267.4 |
| 12/10/1998 | 260.3 | 267.4 |

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Bellar

| | | |
|------------|-------|-------|
| 12/11/1998 | 261.0 | 268.7 |
| 12/12/1998 | 264.8 | 268.7 |
| 12/13/1998 | 259.0 | 268.0 |
| 12/14/1998 | 258.4 | 264.2 |
| 12/15/1998 | 258.4 | 264.8 |
| 12/16/1998 | 259.7 | 263.5 |
| 12/17/1998 | 259.7 | 264.8 |
| 12/18/1998 | 262.9 | 265.5 |
| 12/19/1998 | 261.0 | 265.5 |
| 12/20/1998 | 260.3 | 262.9 |
| 12/21/1998 | 261.0 | 269.3 |
| 12/22/1998 | 262.9 | 269.3 |
| 12/23/1998 | 266.1 | 269.3 |
| 12/24/1998 | 263.5 | 269.3 |
| 12/25/1998 | 259.0 | 269.3 |
| 12/26/1998 | 258.4 | 268.0 |
| 12/27/1998 | 258.4 | 266.8 |
| 12/28/1998 | 260.3 | 266.8 |
| 12/29/1998 | 260.3 | 268.7 |
| 12/30/1998 | 268.0 | 270.0 |
| 12/31/1998 | 262.9 | 270.0 |
| 1/1/1999 | 262.9 | 266.1 |
| 1/2/1999 | 262.9 | 266.1 |
| 1/3/1999 | 262.9 | 265.5 |
| 1/4/1999 | 258.4 | 272.6 |
| 1/5/1999 | 258.4 | 274.5 |
| 1/6/1999 | 264.2 | 318.3 |
| 1/7/1999 | 262.9 | 273.2 |
| 1/8/1999 | 263.5 | 269.3 |
| 1/9/1999 | 261.0 | 270.6 |
| 1/10/1999 | 260.3 | 276.4 |
| 1/11/1999 | 256.4 | 276.4 |
| 1/12/1999 | 261.0 | 269.3 |
| 1/13/1999 | 258.4 | 264.8 |
| 1/14/1999 | 262.2 | 268.0 |
| 1/15/1999 | 260.3 | 264.2 |
| 1/16/1999 | 262.9 | 266.1 |
| 1/17/1999 | 259.7 | 266.1 |
| 1/18/1999 | 259.0 | 264.8 |
| 1/19/1999 | 261.6 | 268.0 |
| 1/20/1999 | 263.5 | 269.3 |
| 1/21/1999 | 259.7 | 268.7 |
| 1/22/1999 | 259.7 | 261.6 |
| 1/23/1999 | 260.3 | 267.4 |
| 1/24/1999 | 262.2 | 267.4 |
| 1/25/1999 | 260.3 | 268.0 |
| 1/26/1999 | 262.2 | 266.8 |
| 1/27/1999 | 255.2 | 263.5 |
| 1/28/1999 | 258.4 | 263.5 |

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| | | |
|-----------|-------|-------|
| 1/29/1999 | 261.6 | 265.5 |
| 1/30/1999 | 260.3 | 264.8 |
| 1/31/1999 | 261.6 | 270.6 |
| 2/1/1999 | 263.5 | 270.6 |
| 2/2/1999 | 260.3 | 268.7 |
| 2/3/1999 | 261.0 | 266.8 |
| 2/4/1999 | 261.0 | 274.5 |
| 2/5/1999 | 261.6 | 271.3 |
| 2/6/1999 | 261.0 | 264.8 |
| 2/7/1999 | 259.7 | 264.2 |
| 2/8/1999 | 258.4 | 262.9 |
| 2/9/1999 | 259.7 | 263.5 |
| 2/10/1999 | 257.1 | 273.2 |
| 2/11/1999 | 262.2 | 264.8 |
| 2/12/1999 | 259.0 | 264.8 |
| 2/13/1999 | 259.0 | 264.8 |
| 2/14/1999 | 260.3 | 266.1 |
| 2/15/1999 | 257.1 | 266.8 |
| 2/16/1999 | 259.7 | 264.8 |
| 2/17/1999 | 262.2 | 269.3 |
| 2/18/1999 | 259.0 | 270.0 |
| 2/19/1999 | 258.4 | 265.5 |
| 2/20/1999 | 262.2 | 266.1 |
| 2/21/1999 | 259.7 | 264.8 |
| 2/22/1999 | 258.4 | 263.5 |
| 2/23/1999 | 259.0 | 267.4 |
| 2/24/1999 | 261.0 | 265.5 |
| 2/25/1999 | 260.3 | 266.1 |
| 2/26/1999 | 259.7 | 264.8 |
| 2/27/1999 | 257.7 | 264.8 |
| 2/28/1999 | 257.1 | 266.8 |
| 3/1/1999 | 257.7 | 266.8 |
| 3/2/1999 | 258.4 | 262.2 |
| 3/3/1999 | 259.0 | 266.8 |
| 3/4/1999 | 259.0 | 267.4 |
| 3/5/1999 | 257.7 | 263.5 |
| 3/6/1999 | 255.8 | 266.1 |
| 3/7/1999 | 257.7 | 266.1 |
| 3/8/1999 | 259.0 | 263.5 |
| 3/9/1999 | 260.3 | 269.3 |
| 3/10/1999 | 258.4 | 267.4 |
| 3/11/1999 | 257.1 | 267.4 |
| 3/12/1999 | 261.0 | 266.8 |
| 3/13/1999 | 259.0 | 269.3 |
| 3/14/1999 | 258.4 | 268.0 |
| 3/15/1999 | 263.5 | 270.0 |
| 3/16/1999 | 259.0 | 267.4 |
| 3/17/1999 | 259.0 | 263.5 |
| 3/18/1999 | 257.1 | 262.2 |

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| | | |
|-----------|-------|-------|
| 3/19/1999 | 261.6 | 268.7 |
| 3/20/1999 | 262.2 | 266.1 |
| 3/21/1999 | 259.0 | 267.4 |
| 3/22/1999 | 261.6 | 272.6 |
| 3/23/1999 | 262.2 | 270.6 |
| 3/24/1999 | 261.0 | 270.6 |
| 3/25/1999 | 260.3 | 267.4 |
| 3/26/1999 | 259.7 | 265.5 |
| 3/27/1999 | 259.7 | 264.8 |
| 3/28/1999 | 257.7 | 264.8 |
| 3/29/1999 | 261.0 | 270.6 |
| 3/30/1999 | 259.0 | 266.1 |
| 3/31/1999 | 259.0 | 264.8 |
| 4/1/1999 | 257.7 | 275.1 |
| 4/2/1999 | 260.3 | 271.3 |
| 4/3/1999 | 261.6 | 268.7 |
| 4/4/1999 | 262.2 | 269.3 |
| 4/5/1999 | 260.3 | 264.2 |
| 4/6/1999 | 258.4 | 262.2 |
| 4/7/1999 | 257.1 | 260.3 |
| 4/8/1999 | 257.1 | 259.7 |
| 4/9/1999 | 258.4 | 259.7 |
| 4/10/1999 | 258.4 | 262.2 |
| 4/11/1999 | 257.7 | 262.2 |
| 4/12/1999 | 261.6 | 265.5 |
| 4/13/1999 | 260.3 | 273.8 |
| 4/14/1999 | 260.3 | 263.5 |
| 4/15/1999 | 261.0 | 265.5 |
| 4/16/1999 | 262.2 | 267.4 |
| 4/17/1999 | 262.2 | 268.0 |
| 4/18/1999 | 261.6 | 265.5 |
| 4/19/1999 | 261.0 | 269.3 |
| 4/20/1999 | 261.6 | 264.2 |
| 4/21/1999 | 259.0 | 268.0 |
| 4/22/1999 | 259.0 | 264.2 |
| 4/23/1999 | 261.0 | 264.8 |
| 4/24/1999 | 261.0 | 266.1 |
| 4/25/1999 | 259.7 | 265.5 |
| 4/26/1999 | 259.0 | 264.2 |
| 4/27/1999 | 259.0 | 264.8 |
| 4/28/1999 | 261.0 | 266.8 |
| 4/29/1999 | 261.0 | 262.9 |
| 4/30/1999 | 261.0 | 267.4 |
| 5/1/1999 | 261.6 | 265.5 |
| 5/2/1999 | 261.6 | 263.5 |
| 5/3/1999 | 258.4 | 262.9 |
| 5/4/1999 | 257.7 | 264.2 |
| 5/5/1999 | 259.7 | 265.5 |
| 5/6/1999 | 259.7 | 264.2 |

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| | | |
|-----------|-------|-------|
| 5/7/1999 | 259.0 | 263.5 |
| 5/8/1999 | 261.6 | 262.9 |
| 5/9/1999 | 258.4 | 262.9 |
| 5/10/1999 | 259.7 | 270.0 |
| 5/11/1999 | 262.2 | 270.0 |
| 5/12/1999 | 259.7 | 266.8 |
| 5/13/1999 | 261.0 | 262.2 |
| 5/14/1999 | 258.4 | 261.6 |
| 5/15/1999 | 257.7 | 259.7 |
| 5/16/1999 | 257.7 | 259.7 |
| 5/17/1999 | 257.7 | 262.2 |
| 5/18/1999 | 261.6 | 263.5 |
| 5/19/1999 | 259.0 | 262.2 |
| 5/20/1999 | 259.0 | 264.2 |
| 5/21/1999 | 258.4 | 263.5 |
| 5/22/1999 | 258.4 | 259.7 |
| 5/23/1999 | 257.7 | 262.9 |
| 5/24/1999 | 261.6 | 262.9 |
| 5/25/1999 | 259.7 | 270.0 |
| 5/26/1999 | 261.0 | 270.0 |
| 5/27/1999 | 260.3 | 264.2 |
| 5/28/1999 | 261.0 | 264.2 |
| 5/29/1999 | 261.0 | 262.9 |
| 5/30/1999 | 261.0 | 262.9 |
| 5/31/1999 | 259.7 | 262.9 |
| 6/1/1999 | 260.3 | 265.5 |
| 6/2/1999 | 259.0 | 265.5 |
| 6/3/1999 | 258.4 | 261.0 |
| 6/4/1999 | 257.1 | 261.6 |
| 6/5/1999 | 256.4 | 258.4 |
| 6/6/1999 | 256.4 | 258.4 |
| 6/7/1999 | 255.8 | 284.1 |
| 6/8/1999 | 256.4 | 270.6 |
| 6/9/1999 | 257.7 | 271.9 |
| 6/10/1999 | 257.1 | 260.3 |
| 6/11/1999 | 257.7 | 259.7 |
| 6/12/1999 | 257.1 | 260.3 |
| 6/13/1999 | 257.1 | 259.0 |
| 6/14/1999 | 91.5 | 258.4 |
| 6/15/1999 | 90.2 | 210.7 |
| 6/16/1999 | 212.0 | 268.0 |
| 6/17/1999 | 253.2 | 262.2 |
| 6/18/1999 | 252.6 | 255.2 |
| 6/19/1999 | 252.6 | 259.0 |
| 6/20/1999 | 253.2 | 264.2 |
| 6/21/1999 | 254.5 | 264.2 |
| 6/22/1999 | 254.5 | 256.4 |
| 6/23/1999 | 255.2 | 255.8 |
| 6/24/1999 | 254.5 | 260.3 |

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| | | |
|-----------|-------|-------|
| 6/25/1999 | 255.8 | 260.3 |
| 6/26/1999 | 255.2 | 257.1 |
| 6/27/1999 | 254.5 | 261.6 |
| 6/28/1999 | 254.5 | 261.6 |
| 6/29/1999 | 257.1 | 259.0 |
| 6/30/1999 | 257.1 | 259.0 |
| 7/1/1999 | 255.2 | 259.7 |
| 7/2/1999 | 253.2 | 255.8 |
| 7/3/1999 | 252.6 | 257.7 |
| 7/4/1999 | 254.5 | 258.4 |
| 7/5/1999 | 253.9 | 258.4 |
| 7/6/1999 | 254.5 | 288.7 |
| 7/7/1999 | 255.2 | 261.6 |
| 7/8/1999 | 254.5 | 255.8 |
| 7/9/1999 | 253.9 | 255.2 |
| 7/10/1999 | 254.5 | 255.8 |
| 7/11/1999 | 254.5 | 259.0 |
| 7/12/1999 | 254.5 | 259.7 |
| 7/13/1999 | 254.5 | 259.0 |
| 7/14/1999 | 253.9 | 259.0 |
| 7/15/1999 | 254.5 | 257.7 |
| 7/16/1999 | 254.5 | 255.8 |
| 7/17/1999 | 254.5 | 257.1 |
| 7/18/1999 | 254.5 | 256.4 |
| 7/19/1999 | 255.2 | 266.8 |
| 7/20/1999 | 255.8 | 257.1 |
| 7/21/1999 | 255.8 | 266.8 |
| 7/22/1999 | 254.5 | 266.1 |
| 7/23/1999 | 254.5 | 266.1 |
| 7/24/1999 | 254.5 | 271.9 |
| 7/25/1999 | 255.2 | 271.3 |
| 7/26/1999 | 254.5 | 267.4 |
| 7/27/1999 | 254.5 | 269.3 |
| 7/28/1999 | 255.2 | 268.0 |
| 7/29/1999 | 255.8 | 266.8 |
| 7/30/1999 | 254.5 | 270.0 |
| 7/31/1999 | 254.5 | 262.2 |
| 8/1/1999 | 254.5 | 262.2 |
| 8/2/1999 | 256.4 | 262.2 |
| 8/3/1999 | 254.5 | 264.2 |
| 8/4/1999 | 255.2 | 262.2 |
| 8/5/1999 | 255.2 | 261.0 |
| 8/6/1999 | 257.7 | 260.3 |
| 8/7/1999 | 258.4 | 260.3 |
| 8/8/1999 | 259.0 | 259.7 |
| 8/9/1999 | 255.8 | 259.0 |
| 8/10/1999 | 253.9 | 256.4 |
| 8/11/1999 | 253.9 | 255.8 |
| 8/12/1999 | 253.9 | 296.4 |

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| | | |
|-----------|-------|-------|
| 8/13/1999 | 253.9 | 295.7 |
| 8/14/1999 | 255.2 | 258.4 |
| 8/15/1999 | 257.1 | 258.4 |
| 8/16/1999 | 255.8 | 257.7 |
| 8/17/1999 | 256.4 | 265.5 |
| 8/18/1999 | 256.4 | 257.7 |
| 8/19/1999 | 255.8 | 257.1 |
| 8/20/1999 | 254.5 | 257.1 |
| 8/21/1999 | 253.9 | 256.4 |
| 8/22/1999 | 253.2 | 255.8 |
| 8/23/1999 | 253.2 | 257.1 |
| 8/24/1999 | 254.5 | 257.7 |
| 8/25/1999 | 254.5 | 257.1 |
| 8/26/1999 | 254.5 | 255.8 |
| 8/27/1999 | 253.2 | 258.4 |
| 8/28/1999 | 253.2 | 261.0 |
| 8/29/1999 | 254.5 | 255.8 |
| 8/30/1999 | 250.6 | 255.8 |
| 8/31/1999 | 151.4 | 251.3 |
| 9/1/1999 | 154.0 | 259.7 |
| 9/2/1999 | 253.9 | 259.0 |
| 9/3/1999 | 253.2 | 259.0 |
| 9/4/1999 | 253.9 | 255.8 |
| 9/5/1999 | 254.5 | 255.2 |
| 9/6/1999 | 254.5 | 262.9 |
| 9/7/1999 | 254.5 | 259.7 |
| 9/8/1999 | 254.5 | 258.4 |
| 9/9/1999 | 253.9 | 257.1 |
| 9/10/1999 | 254.5 | 255.2 |
| 9/11/1999 | 253.9 | 255.8 |
| 9/12/1999 | 254.5 | 256.4 |
| 9/13/1999 | 255.2 | 259.0 |
| 9/14/1999 | 256.4 | 259.7 |
| 9/15/1999 | 256.4 | 259.7 |
| 9/16/1999 | 254.5 | 257.1 |
| 9/17/1999 | 255.2 | 258.4 |
| 9/18/1999 | 253.9 | 258.4 |
| 9/19/1999 | 255.2 | 258.4 |
| 9/20/1999 | 255.2 | 259.7 |
| 9/21/1999 | 257.1 | 261.6 |
| 9/22/1999 | 253.2 | 261.6 |
| 9/23/1999 | 253.9 | 259.0 |
| 9/24/1999 | 253.2 | 255.2 |
| 9/25/1999 | 253.2 | 255.8 |
| 9/26/1999 | 253.9 | 261.6 |
| 9/27/1999 | 253.9 | 261.6 |
| 9/28/1999 | 251.9 | 260.3 |
| 9/29/1999 | 254.5 | 264.8 |
| 9/30/1999 | 256.4 | 264.8 |

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| | | |
|------------|-------|-------|
| 10/1/1999 | 251.3 | 262.9 |
| 10/2/1999 | 251.3 | 254.5 |
| 10/3/1999 | 253.9 | 255.2 |
| 10/4/1999 | 253.9 | 264.8 |
| 10/5/1999 | 255.2 | 262.2 |
| 10/6/1999 | 253.2 | 266.8 |
| 10/7/1999 | 253.9 | 261.0 |
| 10/8/1999 | 253.9 | 255.2 |
| 10/9/1999 | 254.5 | 255.2 |
| 10/10/1999 | 254.5 | 259.0 |
| 10/11/1999 | 255.8 | 260.3 |
| 10/12/1999 | 255.2 | 262.2 |
| 10/13/1999 | 255.2 | 261.6 |
| 10/14/1999 | 255.2 | 262.2 |
| 10/15/1999 | 255.2 | 259.7 |
| 10/16/1999 | 254.5 | 258.4 |
| 10/17/1999 | 255.2 | 262.2 |
| 10/18/1999 | 258.4 | 261.0 |
| 10/19/1999 | 255.8 | 263.5 |
| 10/20/1999 | 253.2 | 263.5 |
| 10/21/1999 | 253.9 | 261.6 |
| 10/22/1999 | 255.2 | 267.4 |
| 10/23/1999 | 258.4 | 264.2 |
| 10/24/1999 | 259.0 | 264.2 |
| 10/25/1999 | 254.5 | 262.9 |
| 10/26/1999 | 189.4 | 259.7 |
| 10/27/1999 | 255.2 | 264.8 |
| 10/28/1999 | 255.2 | 261.6 |
| 10/29/1999 | 255.2 | 258.4 |
| 10/30/1999 | 257.7 | 259.7 |
| 10/31/1999 | 257.7 | 259.7 |
| 11/1/1999 | 251.3 | 258.4 |
| 11/2/1999 | 253.2 | 262.2 |
| 11/3/1999 | 258.4 | 268.7 |
| 11/4/1999 | 253.9 | 266.1 |
| 11/5/1999 | 251.3 | 261.0 |
| 11/6/1999 | 251.3 | 256.4 |
| 11/7/1999 | 251.3 | 259.0 |
| 11/8/1999 | 251.9 | 257.7 |
| 11/9/1999 | 248.7 | 257.1 |
| 11/10/1999 | 254.5 | 263.5 |
| 11/11/1999 | 251.3 | 258.4 |
| 11/12/1999 | 252.6 | 255.8 |
| 11/13/1999 | 252.6 | 255.2 |
| 11/14/1999 | 251.9 | 256.4 |
| 11/15/1999 | 254.5 | 264.2 |
| 11/16/1999 | 252.6 | 265.5 |
| 11/17/1999 | 257.7 | 266.8 |
| 11/18/1999 | 253.2 | 265.5 |

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| | | |
|------------|-------|-------|
| 11/19/1999 | 254.5 | 259.0 |
| 11/20/1999 | 251.3 | 263.5 |
| 11/21/1999 | 251.9 | 261.6 |
| 11/22/1999 | 253.9 | 259.7 |
| 11/23/1999 | 251.9 | 257.7 |
| 11/24/1999 | 254.5 | 261.0 |
| 11/25/1999 | 255.2 | 261.6 |
| 11/26/1999 | 253.9 | 261.0 |
| 11/27/1999 | 253.2 | 261.6 |
| 11/28/1999 | 253.9 | 262.9 |
| 11/29/1999 | 251.9 | 262.9 |
| 11/30/1999 | 253.2 | 262.2 |
| 12/1/1999 | 252.6 | 264.2 |
| 12/2/1999 | 258.4 | 263.5 |
| 12/3/1999 | 255.2 | 260.3 |
| 12/4/1999 | 252.6 | 258.4 |
| 12/5/1999 | 255.2 | 261.0 |
| 12/6/1999 | 259.0 | 262.9 |
| 12/7/1999 | 257.1 | 262.2 |
| 12/8/1999 | 257.7 | 262.9 |
| 12/9/1999 | 259.0 | 261.6 |
| 12/10/1999 | 256.4 | 266.1 |
| 12/11/1999 | 257.1 | 260.3 |
| 12/12/1999 | 257.1 | 262.2 |
| 12/13/1999 | 256.4 | 259.7 |
| 12/14/1999 | 255.2 | 263.5 |
| 12/15/1999 | 255.2 | 289.3 |
| 12/16/1999 | 250.6 | 293.2 |
| 12/17/1999 | 249.4 | 258.4 |
| 12/18/1999 | 252.6 | 257.1 |
| 12/19/1999 | 251.3 | 259.7 |
| 12/20/1999 | 257.1 | 264.2 |
| 12/21/1999 | 258.4 | 280.9 |
| 12/22/1999 | 262.9 | 275.1 |
| 12/23/1999 | 264.2 | 273.8 |
| 12/24/1999 | 264.8 | 275.1 |
| 12/25/1999 | 255.8 | 275.8 |
| 12/26/1999 | 259.0 | 276.4 |
| 12/27/1999 | 273.2 | 306.7 |
| 12/28/1999 | 257.7 | 305.4 |
| 12/29/1999 | 257.1 | 264.8 |
| 12/30/1999 | 253.2 | 264.2 |
| 12/31/1999 | 250.6 | 262.2 |
| 1/1/2000 | 253.2 | 257.1 |
| 1/2/2000 | 249.4 | 256.4 |
| 1/3/2000 | 254.5 | 261.0 |
| 1/4/2000 | 257.1 | 263.5 |
| 1/5/2000 | 259.7 | 277.1 |
| 1/6/2000 | 253.2 | 277.1 |

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| | | |
|-----------|-------|-------|
| 1/7/2000 | 255.2 | 262.2 |
| 1/8/2000 | 250.0 | 262.2 |
| 1/9/2000 | 252.6 | 256.4 |
| 1/10/2000 | 254.5 | 259.0 |
| 1/11/2000 | 255.2 | 259.7 |
| 1/12/2000 | 248.1 | 260.3 |
| 1/13/2000 | 253.2 | 263.5 |
| 1/14/2000 | 251.9 | 257.7 |
| 1/15/2000 | 257.1 | 261.6 |
| 1/16/2000 | 250.6 | 261.6 |
| 1/17/2000 | 257.1 | 260.3 |
| 1/18/2000 | 259.7 | 262.2 |
| 1/19/2000 | 259.0 | 286.1 |
| 1/20/2000 | 266.8 | 289.3 |
| 1/21/2000 | 258.4 | 284.8 |
| 1/22/2000 | 252.6 | 268.0 |
| 1/23/2000 | 235.8 | 257.1 |
| 1/24/2000 | 233.2 | 278.4 |
| 1/25/2000 | 257.7 | 278.4 |
| 1/26/2000 | 257.1 | 288.7 |
| 1/27/2000 | 254.5 | 280.9 |
| 1/28/2000 | 264.8 | 281.6 |
| 1/29/2000 | 259.0 | 280.3 |
| 1/30/2000 | 263.5 | 277.7 |
| 1/31/2000 | 260.3 | 275.1 |
| 2/1/2000 | 243.6 | 275.1 |
| 2/2/2000 | 251.3 | 276.4 |
| 2/3/2000 | 249.4 | 260.3 |
| 2/4/2000 | 253.2 | 277.7 |
| 2/5/2000 | 256.4 | 272.6 |
| 2/6/2000 | 251.9 | 276.4 |
| 2/7/2000 | 246.8 | 279.6 |
| 2/8/2000 | 261.6 | 267.4 |
| 2/9/2000 | 251.9 | 262.9 |
| 2/10/2000 | 251.9 | 259.7 |
| 2/11/2000 | 255.8 | 260.3 |
| 2/12/2000 | 252.6 | 260.3 |
| 2/13/2000 | 255.8 | 261.0 |
| 2/14/2000 | 249.4 | 265.5 |
| 2/15/2000 | 253.9 | 263.5 |
| 2/16/2000 | 252.6 | 263.5 |
| 2/17/2000 | 260.3 | 262.2 |
| 2/18/2000 | 260.3 | 263.5 |
| 2/19/2000 | 255.8 | 261.6 |
| 2/20/2000 | 257.1 | 263.5 |
| 2/21/2000 | 250.6 | 261.6 |
| 2/22/2000 | 248.7 | 262.2 |
| 2/23/2000 | 250.6 | 259.0 |
| 2/24/2000 | 251.3 | 255.2 |

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| | | |
|-----------|-------|-------|
| 2/25/2000 | 251.3 | 254.5 |
| 2/26/2000 | 251.3 | 259.0 |
| 2/27/2000 | 252.6 | 266.1 |
| 2/28/2000 | 256.4 | 266.1 |
| 2/29/2000 | 251.3 | 258.4 |
| 3/1/2000 | 253.9 | 261.6 |
| 3/2/2000 | 254.5 | 266.8 |
| 3/3/2000 | 262.2 | 267.4 |
| 3/4/2000 | 251.3 | 262.2 |
| 3/5/2000 | 249.4 | 257.7 |
| 3/6/2000 | 250.6 | 259.7 |
| 3/7/2000 | 253.2 | 260.3 |
| 3/8/2000 | 253.9 | 255.8 |
| 3/9/2000 | 253.9 | 264.2 |
| 3/10/2000 | 252.6 | 264.8 |
| 3/11/2000 | 255.2 | 262.2 |
| 3/12/2000 | 249.4 | 265.5 |
| 3/13/2000 | 253.9 | 265.5 |
| 3/14/2000 | 255.2 | 268.0 |
| 3/15/2000 | 256.4 | 266.1 |
| 3/16/2000 | 256.4 | 263.5 |
| 3/17/2000 | 251.9 | 263.5 |
| 3/18/2000 | 254.5 | 259.7 |
| 3/19/2000 | 255.2 | 259.7 |
| 3/20/2000 | 252.6 | 262.9 |
| 3/21/2000 | 250.0 | 263.5 |
| 3/22/2000 | 250.0 | 261.0 |
| 3/23/2000 | 251.9 | 261.0 |
| 3/24/2000 | 255.8 | 260.3 |
| 3/25/2000 | 254.5 | 256.4 |
| 3/26/2000 | 255.2 | 258.4 |
| 3/27/2000 | 253.9 | 259.0 |
| 3/28/2000 | 245.5 | 258.4 |
| 3/29/2000 | 246.8 | 259.7 |
| 3/30/2000 | 242.3 | 261.6 |
| 3/31/2000 | 247.4 | 251.9 |
| 4/1/2000 | 248.1 | 252.6 |
| 4/2/2000 | 251.3 | 251.9 |
| 4/3/2000 | 249.4 | 258.4 |
| 4/4/2000 | 246.8 | 265.5 |
| 4/5/2000 | 252.6 | 261.6 |
| 4/6/2000 | 252.6 | 253.9 |
| 4/7/2000 | 250.0 | 253.2 |
| 4/8/2000 | 248.7 | 253.2 |
| 4/9/2000 | 248.7 | 256.4 |
| 4/10/2000 | 253.9 | 255.8 |
| 4/11/2000 | 255.2 | 265.5 |
| 4/12/2000 | 252.6 | 268.0 |
| 4/13/2000 | 250.6 | 269.3 |

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| | | |
|-----------|-------|-------|
| 4/14/2000 | 251.3 | 270.0 |
| 4/15/2000 | 250.6 | 255.2 |
| 4/16/2000 | 250.6 | 255.8 |
| 4/17/2000 | 248.7 | 262.2 |
| 4/18/2000 | 249.4 | 265.5 |
| 4/19/2000 | 251.3 | 261.6 |
| 4/20/2000 | 250.6 | 254.5 |
| 4/21/2000 | 247.4 | 251.3 |
| 4/22/2000 | 249.4 | 253.9 |
| 4/23/2000 | 251.3 | 255.2 |
| 4/24/2000 | 248.7 | 255.2 |
| 4/25/2000 | 246.1 | 252.6 |
| 4/26/2000 | 246.1 | 252.6 |
| 4/27/2000 | 251.3 | 259.7 |
| 4/28/2000 | 251.3 | 257.7 |
| 4/29/2000 | 250.6 | 258.4 |
| 4/30/2000 | 250.6 | 254.5 |
| 5/1/2000 | 253.2 | 254.5 |
| 5/2/2000 | 252.6 | 254.5 |
| 5/3/2000 | 253.2 | 254.5 |
| 5/4/2000 | 253.2 | 253.9 |
| 5/5/2000 | 251.3 | 253.9 |
| 5/6/2000 | 251.3 | 253.2 |
| 5/7/2000 | 251.9 | 253.2 |
| 5/8/2000 | 251.3 | 309.9 |
| 5/9/2000 | 252.6 | 306.1 |
| 5/10/2000 | 251.3 | 262.9 |
| 5/11/2000 | 252.6 | 263.5 |
| 5/12/2000 | 254.5 | 270.6 |
| 5/13/2000 | 251.3 | 260.3 |
| 5/14/2000 | 254.5 | 261.0 |
| 5/15/2000 | 251.3 | 264.2 |
| 5/16/2000 | 250.6 | 264.8 |
| 5/17/2000 | 252.6 | 254.5 |
| 5/18/2000 | 251.9 | 308.0 |
| 5/19/2000 | 251.3 | 253.2 |
| 5/20/2000 | 250.6 | 253.2 |
| 5/21/2000 | 250.6 | 255.2 |
| 5/22/2000 | 251.9 | 260.3 |
| 5/23/2000 | 251.9 | 260.3 |
| 5/24/2000 | 250.6 | 299.6 |
| 5/25/2000 | 252.6 | 254.5 |
| 5/26/2000 | 252.6 | 257.7 |
| 5/27/2000 | 254.5 | 258.4 |
| 5/28/2000 | 253.9 | 259.0 |
| 5/29/2000 | 252.6 | 256.4 |
| 5/30/2000 | 254.5 | 257.1 |
| 5/31/2000 | 250.6 | 262.2 |
| 6/1/2000 | 251.9 | 262.2 |

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| | | |
|-----------|-------|-------|
| 6/2/2000 | 254.5 | 262.2 |
| 6/3/2000 | 252.6 | 256.4 |
| 6/4/2000 | 252.6 | 255.2 |
| 6/5/2000 | 148.2 | 254.5 |
| 6/6/2000 | 145.6 | 253.9 |
| 6/7/2000 | 250.6 | 253.9 |
| 6/8/2000 | 250.6 | 253.2 |
| 6/9/2000 | 251.3 | 253.2 |
| 6/10/2000 | 250.6 | 253.2 |
| 6/11/2000 | 251.9 | 257.7 |
| 6/12/2000 | 250.6 | 306.1 |
| 6/13/2000 | 251.9 | 262.2 |
| 6/14/2000 | 250.6 | 258.4 |
| 6/15/2000 | 250.6 | 253.2 |
| 6/16/2000 | 250.6 | 253.9 |
| 6/17/2000 | 252.6 | 255.2 |
| 6/18/2000 | 253.9 | 255.2 |
| 6/19/2000 | 252.6 | 255.2 |
| 6/20/2000 | 252.6 | 254.5 |
| 6/21/2000 | 252.6 | 254.5 |
| 6/22/2000 | 252.6 | 254.5 |
| 6/23/2000 | 250.0 | 253.9 |
| 6/24/2000 | 250.0 | 253.2 |
| 6/25/2000 | 250.6 | 270.0 |
| 6/26/2000 | 253.2 | 257.7 |
| 6/27/2000 | 252.6 | 254.5 |
| 6/28/2000 | 252.6 | 257.1 |
| 6/29/2000 | 252.6 | 257.7 |
| 6/30/2000 | 251.9 | 257.7 |
| 7/1/2000 | 252.6 | 257.7 |
| 7/2/2000 | 251.9 | 253.9 |
| 7/3/2000 | 251.9 | 253.9 |
| 7/4/2000 | 251.3 | 253.9 |
| 7/5/2000 | 251.3 | 253.2 |
| 7/6/2000 | 250.6 | 253.2 |
| 7/7/2000 | 251.3 | 253.9 |
| 7/8/2000 | 251.3 | 257.1 |
| 7/9/2000 | 251.3 | 256.4 |
| 7/10/2000 | 251.3 | 257.7 |
| 7/11/2000 | 253.2 | 257.7 |
| 7/12/2000 | 252.6 | 253.9 |
| 7/13/2000 | 251.3 | 253.9 |
| 7/14/2000 | 174.0 | 254.5 |
| 7/15/2000 | 253.9 | 253.9 |
| 7/16/2000 | 253.9 | 253.9 |
| 7/17/2000 | 253.9 | 253.9 |
| 7/18/2000 | 0.0 | 255.0 |
| 7/19/2000 | 254.5 | 255.8 |
| 7/20/2000 | 253.9 | 255.2 |

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| | | |
|-----------|-------|-------|
| 7/21/2000 | 251.9 | 255.2 |
| 7/22/2000 | 251.9 | 253.9 |
| 7/23/2000 | 251.9 | 253.9 |
| 7/24/2000 | 251.9 | 254.5 |
| 7/25/2000 | 251.9 | 254.5 |
| 7/26/2000 | 251.9 | 254.5 |
| 7/27/2000 | 251.9 | 253.9 |
| 7/28/2000 | 251.9 | 254.5 |
| 7/29/2000 | 252.6 | 254.5 |
| 7/30/2000 | 251.3 | 254.5 |
| 7/31/2000 | 252.6 | 254.5 |
| 8/1/2000 | 251.3 | 254.5 |
| 8/2/2000 | 251.3 | 253.2 |
| 8/3/2000 | 251.3 | 254.5 |
| 8/4/2000 | 251.9 | 254.5 |
| 8/5/2000 | 253.2 | 254.5 |
| 8/6/2000 | 251.9 | 253.9 |
| 8/7/2000 | 251.9 | 256.4 |
| 8/8/2000 | 250.6 | 253.2 |
| 8/9/2000 | 251.3 | 288.7 |
| 8/10/2000 | 251.3 | 257.1 |
| 8/11/2000 | 251.3 | 253.2 |
| 8/12/2000 | 251.9 | 253.9 |
| 8/13/2000 | 251.3 | 253.9 |
| 8/14/2000 | 160.4 | 257.1 |
| 8/15/2000 | 157.2 | 166.9 |
| 8/16/2000 | 165.6 | 257.1 |
| 8/17/2000 | 251.9 | 253.9 |
| 8/18/2000 | 251.3 | 253.9 |
| 8/19/2000 | 250.0 | 253.2 |
| 8/20/2000 | 251.3 | 253.2 |
| 8/21/2000 | 250.0 | 255.8 |
| 8/22/2000 | 250.0 | 255.2 |
| 8/23/2000 | 250.6 | 255.8 |
| 8/24/2000 | 250.6 | 261.6 |
| 8/25/2000 | 250.0 | 256.4 |
| 8/26/2000 | 250.6 | 253.9 |
| 8/27/2000 | 251.9 | 253.2 |
| 8/28/2000 | 251.3 | 259.0 |
| 8/29/2000 | 250.6 | 259.7 |
| 8/30/2000 | 251.3 | 260.3 |
| 8/31/2000 | 251.3 | 253.2 |
| 9/1/2000 | 251.3 | 255.8 |
| 9/2/2000 | 250.0 | 255.2 |
| 9/3/2000 | 251.3 | 255.2 |
| 9/4/2000 | 251.3 | 255.8 |
| 9/5/2000 | 251.9 | 263.5 |
| 9/6/2000 | 250.6 | 255.8 |
| 9/7/2000 | 250.6 | 255.2 |

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| | | |
|------------|-------|-------|
| 9/8/2000 | 251.9 | 254.5 |
| 9/9/2000 | 252.6 | 254.5 |
| 9/10/2000 | 253.2 | 253.9 |
| 9/11/2000 | 253.2 | 253.9 |
| 9/12/2000 | 252.6 | 253.9 |
| 9/13/2000 | 251.9 | 255.2 |
| 9/14/2000 | 250.6 | 262.9 |
| 9/15/2000 | 251.9 | 253.9 |
| 9/16/2000 | 252.6 | 253.9 |
| 9/17/2000 | 252.6 | 253.9 |
| 9/18/2000 | 249.4 | 253.9 |
| 9/19/2000 | 192.7 | 252.6 |
| 9/20/2000 | 192.0 | 256.4 |
| 9/21/2000 | 255.2 | 256.4 |
| 9/22/2000 | 254.5 | 255.8 |
| 9/23/2000 | 255.2 | 256.4 |
| 9/24/2000 | 255.2 | 256.4 |
| 9/25/2000 | 250.6 | 255.8 |
| 9/26/2000 | 252.6 | 253.9 |
| 9/27/2000 | 253.2 | 255.2 |
| 9/28/2000 | 253.9 | 259.0 |
| 9/29/2000 | 255.8 | 259.7 |
| 9/30/2000 | 254.5 | 255.8 |
| 10/1/2000 | 250.0 | 254.5 |
| 10/2/2000 | 250.0 | 251.3 |
| 10/3/2000 | 250.0 | 251.3 |
| 10/4/2000 | 250.0 | 253.9 |
| 10/5/2000 | 250.0 | 253.9 |
| 10/6/2000 | 250.6 | 254.5 |
| 10/7/2000 | 251.9 | 254.5 |
| 10/8/2000 | 252.6 | 261.0 |
| 10/9/2000 | 254.5 | 261.6 |
| 10/10/2000 | 252.6 | 260.3 |
| 10/11/2000 | 250.6 | 256.4 |
| 10/12/2000 | 251.3 | 256.4 |
| 10/13/2000 | 251.3 | 253.2 |
| 10/14/2000 | 250.6 | 252.6 |
| 10/15/2000 | 250.0 | 252.6 |
| 10/16/2000 | 250.6 | 258.4 |
| 10/17/2000 | 246.8 | 251.9 |
| 10/18/2000 | 246.8 | 256.4 |
| 10/19/2000 | 252.6 | 253.9 |
| 10/20/2000 | 252.6 | 254.5 |
| 10/21/2000 | 253.9 | 261.0 |
| 10/22/2000 | 251.3 | 254.5 |
| 10/23/2000 | 253.2 | 255.8 |
| 10/24/2000 | 252.6 | 256.4 |
| 10/25/2000 | 250.6 | 256.4 |
| 10/26/2000 | 251.3 | 257.1 |

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| | | |
|------------|-------|-------|
| 10/27/2000 | 255.8 | 257.1 |
| 10/28/2000 | 254.5 | 257.1 |
| 10/29/2000 | 252.6 | 259.7 |
| 10/30/2000 | 251.9 | 258.4 |
| 10/31/2000 | 251.9 | 253.2 |
| 11/1/2000 | 251.9 | 253.2 |
| 11/2/2000 | 252.6 | 253.2 |
| 11/3/2000 | 251.3 | 253.2 |
| 11/4/2000 | 250.6 | 252.6 |
| 11/5/2000 | 251.3 | 257.1 |
| 11/6/2000 | 248.1 | 256.4 |
| 11/7/2000 | 250.6 | 256.4 |
| 11/8/2000 | 254.5 | 255.8 |
| 11/9/2000 | 251.9 | 260.3 |
| 11/10/2000 | 251.9 | 263.5 |
| 11/11/2000 | 252.6 | 259.0 |
| 11/12/2000 | 253.2 | 261.6 |
| 11/13/2000 | 255.2 | 261.6 |
| 11/14/2000 | 261.0 | 268.0 |
| 11/15/2000 | 255.2 | 268.7 |
| 11/16/2000 | 256.4 | 266.1 |
| 11/17/2000 | 255.2 | 264.8 |
| 11/18/2000 | 251.9 | 262.9 |
| 11/19/2000 | 253.2 | 266.1 |
| 11/20/2000 | 261.6 | 280.9 |
| 11/21/2000 | 251.3 | 271.9 |
| 11/22/2000 | 257.7 | 265.5 |
| 11/23/2000 | 253.2 | 262.2 |
| 11/24/2000 | 256.4 | 259.0 |
| 11/25/2000 | 255.2 | 259.7 |
| 11/26/2000 | 254.5 | 261.0 |
| 11/27/2000 | 255.8 | 264.8 |
| 11/28/2000 | 255.2 | 262.9 |
| 11/29/2000 | 251.9 | 264.2 |
| 11/30/2000 | 255.8 | 264.8 |
| 12/1/2000 | 257.1 | 261.6 |
| 12/2/2000 | 257.1 | 261.0 |
| 12/3/2000 | 260.3 | 263.5 |
| 12/4/2000 | 255.2 | 262.9 |
| 12/5/2000 | 257.7 | 265.5 |
| 12/6/2000 | 257.1 | 263.5 |
| 12/7/2000 | 259.0 | 262.9 |
| 12/8/2000 | 257.1 | 263.5 |
| 12/9/2000 | 255.2 | 263.5 |
| 12/10/2000 | 254.5 | 257.7 |
| 12/11/2000 | 255.8 | 288.0 |
| 12/12/2000 | 253.2 | 286.1 |
| 12/13/2000 | 254.5 | 261.6 |
| 12/14/2000 | 254.5 | 259.0 |

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| | | |
|------------|-------|-------|
| 12/15/2000 | 246.1 | 259.0 |
| 12/16/2000 | 253.2 | 299.6 |
| 12/17/2000 | 271.9 | 314.4 |
| 12/18/2000 | 265.5 | 299.6 |
| 12/19/2000 | 250.0 | 293.8 |
| 12/20/2000 | 271.9 | 289.3 |
| 12/21/2000 | 274.5 | 299.6 |
| 12/22/2000 | 275.1 | 299.6 |
| 12/23/2000 | 269.3 | 288.0 |
| 12/24/2000 | 268.0 | 288.7 |
| 12/25/2000 | 248.7 | 295.1 |
| 12/26/2000 | 270.6 | 295.1 |
| 12/27/2000 | 270.0 | 298.3 |
| 12/28/2000 | 271.3 | 299.0 |
| 12/29/2000 | 266.1 | 285.4 |
| 12/30/2000 | 261.0 | 286.1 |
| 12/31/2000 | 262.2 | 286.1 |
| 1/1/2001 | 258.4 | 296.4 |
| 1/2/2001 | 270.0 | 303.5 |
| 1/3/2001 | 272.6 | 304.1 |
| 1/4/2001 | 258.4 | 281.6 |
| 1/5/2001 | 258.4 | 275.1 |
| 1/6/2001 | 257.7 | 265.5 |
| 1/7/2001 | 259.7 | 264.8 |
| 1/8/2001 | 261.6 | 266.1 |
| 1/9/2001 | 258.4 | 284.1 |
| 1/10/2001 | 255.8 | 284.1 |
| 1/11/2001 | 255.2 | 261.0 |
| 1/12/2001 | 253.9 | 261.6 |
| 1/13/2001 | 253.2 | 262.9 |
| 1/14/2001 | 255.8 | 260.3 |
| 1/15/2001 | 259.0 | 264.8 |
| 1/16/2001 | 259.0 | 267.4 |
| 1/17/2001 | 253.9 | 266.8 |
| 1/18/2001 | 262.2 | 267.4 |
| 1/19/2001 | 261.6 | 265.5 |
| 1/20/2001 | 261.0 | 281.6 |
| 1/21/2001 | 237.1 | 349.2 |
| 1/22/2001 | 252.6 | 263.5 |
| 1/23/2001 | 260.3 | 264.8 |
| 1/24/2001 | 256.4 | 266.1 |
| 1/25/2001 | 253.9 | 264.8 |
| 1/26/2001 | 256.4 | 262.2 |
| 1/27/2001 | 259.7 | 264.2 |
| 1/28/2001 | 261.0 | 265.5 |
| 1/29/2001 | 262.2 | 267.4 |
| 1/30/2001 | 255.2 | 262.9 |
| 1/31/2001 | 255.2 | 257.7 |
| 2/1/2001 | 252.6 | 261.6 |

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| | | |
|-----------|-------|-------|
| 2/2/2001 | 258.4 | 262.2 |
| 2/3/2001 | 261.6 | 266.1 |
| 2/4/2001 | 262.2 | 265.5 |
| 2/5/2001 | 260.3 | 264.2 |
| 2/6/2001 | 254.5 | 262.2 |
| 2/7/2001 | 255.8 | 261.6 |
| 2/8/2001 | 254.5 | 262.2 |
| 2/9/2001 | 255.8 | 266.1 |
| 2/10/2001 | 250.0 | 266.8 |
| 2/11/2001 | 248.1 | 262.2 |
| 2/12/2001 | 255.8 | 259.0 |
| 2/13/2001 | 254.5 | 259.0 |
| 2/14/2001 | 250.6 | 261.6 |
| 2/15/2001 | 252.6 | 261.6 |
| 2/16/2001 | 248.7 | 262.2 |
| 2/17/2001 | 251.3 | 261.6 |
| 2/18/2001 | 251.9 | 266.1 |
| 2/19/2001 | 249.4 | 261.0 |
| 2/20/2001 | 251.9 | 268.0 |
| 2/21/2001 | 250.0 | 267.4 |
| 2/22/2001 | 251.9 | 262.2 |
| 2/23/2001 | 247.4 | 262.2 |
| 2/24/2001 | 248.1 | 257.1 |
| 2/25/2001 | 254.5 | 264.2 |
| 2/26/2001 | 248.7 | 262.2 |
| 2/27/2001 | 250.0 | 262.2 |
| 2/28/2001 | 249.4 | 262.2 |
| 3/1/2001 | 254.5 | 265.5 |
| 3/2/2001 | 251.9 | 263.5 |
| 3/3/2001 | 253.9 | 264.2 |
| 3/4/2001 | 259.0 | 264.8 |
| 3/5/2001 | 253.9 | 262.9 |
| 3/6/2001 | 254.5 | 264.2 |
| 3/7/2001 | 257.7 | 265.5 |
| 3/8/2001 | 257.7 | 264.8 |
| 3/9/2001 | 250.6 | 261.0 |
| 3/10/2001 | 250.0 | 258.4 |
| 3/11/2001 | 251.9 | 259.7 |
| 3/12/2001 | 253.0 | 258.0 |
| 3/13/2001 | 254.0 | 264.0 |
| 3/14/2001 | 255.0 | 259.0 |
| 3/15/2001 | 254.0 | 258.0 |
| 3/16/2001 | 251.0 | 255.0 |
| 3/17/2001 | 249.0 | 255.0 |
| 3/18/2001 | 249.0 | 256.0 |
| 3/19/2001 | 249.0 | 256.0 |
| 3/20/2001 | 249.0 | 262.0 |
| 3/21/2001 | 249.0 | 259.0 |
| 3/22/2001 | 251.0 | 258.0 |

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| | | |
|-----------|-------|-------|
| 3/23/2001 | 250.0 | 255.0 |
| 3/24/2001 | 250.0 | 263.0 |
| 3/25/2001 | 250.0 | 265.0 |
| 3/26/2001 | 251.0 | 267.0 |
| 3/27/2001 | 250.0 | 261.0 |
| 3/28/2001 | 249.0 | 255.0 |
| 3/29/2001 | 250.0 | 260.0 |
| 3/30/2001 | 250.0 | 258.0 |
| 3/31/2001 | 0.0 | 253.0 |
| 4/1/2001 | 250.0 | 255.0 |
| 4/2/2001 | 249.0 | 254.0 |
| 4/3/2001 | 252.0 | 256.0 |
| 4/4/2001 | 250.0 | 256.0 |
| 4/5/2001 | 252.0 | 256.0 |
| 4/6/2001 | 252.0 | 255.0 |
| 4/7/2001 | 253.0 | 255.0 |
| 4/8/2001 | 245.0 | 255.0 |
| 4/9/2001 | 253.0 | 255.0 |
| 4/10/2001 | 252.0 | 255.0 |
| 4/11/2001 | 252.0 | 255.0 |
| 4/12/2001 | 252.0 | 255.0 |
| 4/13/2001 | 253.0 | 255.0 |
| 4/14/2001 | 252.0 | 255.0 |
| 4/15/2001 | 251.0 | 255.0 |
| 4/16/2001 | 250.0 | 255.0 |
| 4/17/2001 | 249.0 | 256.0 |
| 4/18/2001 | 251.0 | 256.0 |
| 4/19/2001 | 251.0 | 255.0 |
| 4/20/2001 | 251.0 | 254.0 |
| 4/21/2001 | 252.0 | 256.0 |
| 4/22/2001 | 252.0 | 259.0 |
| 4/23/2001 | 251.0 | 260.0 |
| 4/24/2001 | 252.0 | 256.0 |
| 4/25/2001 | 249.0 | 258.0 |
| 4/26/2001 | 252.0 | 285.0 |
| 4/27/2001 | 252.0 | 255.0 |
| 4/28/2001 | 252.0 | 254.0 |
| 4/29/2001 | 252.0 | 257.0 |
| 4/30/2001 | 252.0 | 255.0 |
| 5/1/2001 | 252.0 | 254.0 |
| 5/2/2001 | 252.0 | 253.0 |
| 5/3/2001 | 252.0 | 254.0 |
| 5/4/2001 | 251.0 | 255.0 |
| 5/5/2001 | 252.0 | 255.0 |
| 5/6/2001 | 149.0 | 254.0 |
| 5/7/2001 | 244.0 | 255.0 |
| 5/8/2001 | 214.0 | 255.0 |
| 5/9/2001 | 252.0 | 255.0 |
| 5/10/2001 | 251.0 | 254.0 |

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| | | |
|-----------|-------|-------|
| 5/11/2001 | 250.0 | 253.0 |
| 5/12/2001 | 251.0 | 253.0 |
| 5/13/2001 | 251.0 | 253.0 |
| 5/14/2001 | 251.0 | 253.0 |
| 5/15/2001 | 251.0 | 254.0 |
| 5/16/2001 | 251.0 | 254.0 |
| 5/17/2001 | 250.0 | 254.0 |
| 5/18/2001 | 252.0 | 254.0 |
| 5/19/2001 | 252.0 | 253.0 |
| 5/20/2001 | 251.0 | 254.0 |
| 5/21/2001 | 252.0 | 254.0 |
| 5/22/2001 | 252.0 | 256.0 |
| 5/23/2001 | 252.0 | 254.0 |
| 5/24/2001 | 252.0 | 254.0 |
| 5/25/2001 | 250.0 | 253.0 |
| 5/26/2001 | 251.0 | 253.0 |
| 5/27/2001 | 251.0 | 253.0 |
| 5/28/2001 | 250.0 | 253.0 |
| 5/29/2001 | 251.0 | 254.0 |
| 5/30/2001 | 251.0 | 259.0 |
| 5/31/2001 | 251.0 | 257.0 |
| 6/1/2001 | 251.0 | 253.0 |
| 6/2/2001 | 251.0 | 253.0 |
| 6/3/2001 | 251.0 | 253.0 |
| 6/4/2001 | 253.0 | 255.0 |
| 6/5/2001 | 251.0 | 255.0 |
| 6/6/2001 | 250.0 | 254.0 |
| 6/7/2001 | 250.0 | 255.0 |
| 6/8/2001 | 250.0 | 254.0 |
| 6/9/2001 | 250.0 | 254.0 |
| 6/10/2001 | 251.0 | 253.0 |
| 6/11/2001 | 251.0 | 254.0 |
| 6/12/2001 | 251.0 | 253.0 |
| 6/13/2001 | 251.0 | 254.0 |
| 6/14/2001 | 251.0 | 253.0 |
| 6/15/2001 | 251.0 | 253.0 |
| 6/16/2001 | 251.0 | 253.0 |
| 6/17/2001 | 251.0 | 253.0 |
| 6/18/2001 | 251.0 | 254.0 |
| 6/19/2001 | 252.0 | 255.0 |
| 6/20/2001 | 253.0 | 255.0 |
| 6/21/2001 | 253.0 | 255.0 |
| 6/22/2001 | 251.0 | 254.0 |
| 6/23/2001 | 251.0 | 253.0 |
| 6/24/2001 | 251.0 | 253.0 |
| 6/25/2001 | 251.0 | 253.0 |
| 6/26/2001 | 251.0 | 263.0 |
| 6/27/2001 | 252.0 | 261.0 |
| 6/28/2001 | 252.0 | 253.0 |

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| | | |
|-----------|-------|-------|
| 6/29/2001 | 252.0 | 254.0 |
| 6/30/2001 | 252.0 | 254.0 |
| 7/1/2001 | 251.0 | 254.0 |
| 7/2/2001 | 252.0 | 255.0 |
| 7/3/2001 | 252.0 | 254.0 |
| 7/4/2001 | 252.0 | 254.0 |
| 7/5/2001 | 252.0 | 254.0 |
| 7/6/2001 | 252.0 | 254.0 |
| 7/7/2001 | 251.0 | 253.0 |
| 7/8/2001 | 251.0 | 253.0 |
| 7/9/2001 | 250.0 | 253.0 |
| 7/10/2001 | 249.0 | 252.0 |
| 7/11/2001 | 250.0 | 252.0 |
| 7/12/2001 | 250.0 | 252.0 |
| 7/13/2001 | 250.0 | 252.0 |
| 7/14/2001 | 250.0 | 253.0 |
| 7/15/2001 | 250.0 | 252.0 |
| 7/16/2001 | 151.0 | 252.0 |
| 7/17/2001 | 149.0 | 255.0 |
| 7/18/2001 | 250.0 | 253.0 |
| 7/19/2001 | 249.0 | 252.0 |
| 7/20/2001 | 250.0 | 253.0 |
| 7/21/2001 | 251.0 | 253.0 |
| 7/22/2001 | 251.0 | 253.0 |
| 7/23/2001 | 250.0 | 253.0 |
| 7/24/2001 | 250.0 | 253.0 |
| 7/25/2001 | 250.0 | 253.0 |
| 7/26/2001 | 251.0 | 253.0 |
| 7/27/2001 | 250.0 | 253.0 |
| 7/28/2001 | 251.0 | 253.0 |
| 7/29/2001 | 251.0 | 253.0 |
| 7/30/2001 | 251.0 | 253.0 |
| 7/31/2001 | 250.0 | 252.0 |
| 8/1/2001 | 251.0 | 253.0 |
| 8/2/2001 | 250.0 | 252.0 |
| 8/3/2001 | 251.0 | 253.0 |
| 8/4/2001 | 251.0 | 253.0 |
| 8/5/2001 | 250.0 | 261.0 |
| 8/6/2001 | 250.0 | 252.0 |
| 8/7/2001 | 253.0 | 267.0 |
| 8/8/2001 | 250.0 | 290.0 |
| 8/9/2001 | 251.0 | 255.0 |
| 8/10/2001 | 250.0 | 254.0 |
| 8/11/2001 | 251.0 | 255.0 |
| 8/12/2001 | 251.0 | 255.0 |
| 8/13/2001 | 251.0 | 255.0 |
| 8/14/2001 | 252.0 | 255.0 |
| 8/15/2001 | 251.0 | 255.0 |
| 8/16/2001 | 251.0 | 255.0 |

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| | | |
|-----------|-------|-------|
| 8/17/2001 | 251.0 | 255.0 |
| 8/18/2001 | 251.0 | 256.0 |
| 8/19/2001 | 251.0 | 256.0 |
| 8/20/2001 | 251.0 | 255.0 |
| 8/21/2001 | 251.0 | 255.0 |
| 8/22/2001 | 251.0 | 255.0 |
| 8/23/2001 | 250.0 | 255.0 |
| 8/24/2001 | 249.0 | 254.0 |
| 8/25/2001 | 252.0 | 255.0 |
| 8/26/2001 | 250.0 | 254.0 |
| 8/27/2001 | 251.0 | 254.0 |
| 8/28/2001 | 250.0 | 253.0 |
| 8/29/2001 | 251.0 | 253.0 |
| 8/30/2001 | 205.0 | 246.0 |
| 8/31/2001 | 296.0 | 389.0 |
| 9/1/2001 | 251.0 | 255.0 |
| 9/2/2001 | 251.0 | 255.0 |
| 9/3/2001 | 252.0 | 255.0 |
| 9/4/2001 | 251.0 | 256.0 |
| 9/5/2001 | 252.0 | 258.0 |
| 9/6/2001 | 252.0 | 257.0 |
| 9/7/2001 | 250.0 | 263.0 |
| 9/8/2001 | 251.0 | 255.0 |
| 9/9/2001 | 250.0 | 255.0 |
| 9/10/2001 | 252.0 | 255.0 |
| 9/11/2001 | 252.0 | 256.0 |
| 9/12/2001 | 252.0 | 255.0 |
| 9/13/2001 | 251.0 | 255.0 |
| 9/14/2001 | 252.0 | 255.0 |
| 9/15/2001 | 251.0 | 255.0 |
| 9/16/2001 | 251.0 | 255.0 |
| 9/17/2001 | 251.0 | 255.0 |
| 9/18/2001 | 252.0 | 254.0 |
| 9/19/2001 | 252.0 | 254.0 |
| 9/20/2001 | 252.0 | 254.0 |
| 9/21/2001 | 252.0 | 254.0 |
| 9/22/2001 | 251.0 | 253.0 |
| 9/23/2001 | 251.0 | 256.0 |
| 9/24/2001 | 252.0 | 262.0 |
| 9/25/2001 | 252.0 | 255.0 |
| 9/26/2001 | 252.0 | 255.0 |
| 9/27/2001 | 252.0 | 256.0 |
| 9/28/2001 | 253.0 | 255.0 |
| 9/29/2001 | 253.0 | 258.0 |
| 9/30/2001 | 254.0 | 259.0 |
| 10/1/2001 | 255.0 | 257.0 |
| 10/2/2001 | 254.0 | 257.0 |
| 10/3/2001 | 255.0 | 257.0 |
| 10/4/2001 | 254.0 | 256.0 |

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| | | |
|------------|-------|-------|
| 10/5/2001 | 253.0 | 257.0 |
| 10/6/2001 | 252.0 | 260.0 |
| 10/7/2001 | 253.0 | 256.0 |
| 10/8/2001 | 253.0 | 267.0 |
| 10/9/2001 | 254.0 | 258.0 |
| 10/10/2001 | 251.0 | 256.0 |
| 10/11/2001 | 253.0 | 256.0 |
| 10/12/2001 | 250.0 | 255.0 |
| 10/13/2001 | 250.0 | 254.0 |
| 10/14/2001 | 251.0 | 254.0 |
| 10/15/2001 | 250.0 | 257.0 |
| 10/16/2001 | 251.0 | 255.0 |
| 10/17/2001 | 252.0 | 262.0 |
| 10/18/2001 | 252.0 | 256.0 |
| 10/19/2001 | 251.0 | 255.0 |
| 10/20/2001 | 250.0 | 257.0 |
| 10/21/2001 | 253.0 | 258.0 |
| 10/22/2001 | 253.0 | 257.0 |
| 10/23/2001 | 253.0 | 257.0 |
| 10/24/2001 | 254.0 | 265.0 |
| 10/25/2001 | 253.0 | 256.0 |
| 10/26/2001 | 251.0 | 257.0 |
| 10/27/2001 | 254.0 | 257.0 |
| 10/28/2001 | 251.0 | 258.0 |
| 10/29/2001 | 250.0 | 254.0 |
| 10/30/2001 | 253.0 | 257.0 |
| 10/31/2001 | 253.0 | 256.0 |
| 11/1/2001 | 252.0 | 256.0 |
| 11/2/2001 | 253.0 | 256.0 |
| 11/3/2001 | 251.0 | 255.0 |
| 11/4/2001 | 252.0 | 256.0 |
| 11/5/2001 | 250.0 | 255.0 |
| 11/6/2001 | 249.0 | 255.0 |
| 11/7/2001 | 252.0 | 256.0 |
| 11/8/2001 | 252.0 | 257.0 |
| 11/9/2001 | 253.0 | 255.0 |
| 11/10/2001 | 253.0 | 257.0 |
| 11/11/2001 | 255.0 | 257.0 |
| 11/12/2001 | 253.0 | 262.0 |
| 11/13/2001 | 251.0 | 263.0 |
| 11/14/2001 | 252.0 | 254.0 |
| 11/15/2001 | 251.0 | 255.0 |
| 11/16/2001 | 251.0 | 254.0 |
| 11/17/2001 | 251.0 | 254.0 |
| 11/18/2001 | 252.0 | 254.0 |
| 11/19/2001 | 251.0 | 260.0 |
| 11/20/2001 | 253.0 | 259.0 |
| 11/21/2001 | 251.0 | 256.0 |
| 11/22/2001 | 252.0 | 255.0 |

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| | | |
|------------|-------|-------|
| 11/23/2001 | 252.0 | 255.0 |
| 11/24/2001 | 253.0 | 256.0 |
| 11/25/2001 | 248.0 | 255.0 |
| 11/26/2001 | 252.0 | 255.0 |
| 11/27/2001 | 252.0 | 256.0 |
| 11/28/2001 | 252.0 | 257.0 |
| 11/29/2001 | 254.0 | 257.0 |
| 11/30/2001 | 251.0 | 255.0 |
| 12/1/2001 | 250.0 | 254.0 |
| 12/2/2001 | 252.0 | 256.0 |
| 12/3/2001 | 251.0 | 255.0 |
| 12/4/2001 | 252.0 | 256.0 |
| 12/5/2001 | 254.0 | 256.0 |
| 12/6/2001 | 253.0 | 255.0 |
| 12/7/2001 | 252.0 | 255.0 |
| 12/8/2001 | 252.0 | 255.0 |
| 12/9/2001 | 251.0 | 259.0 |
| 12/10/2001 | 252.0 | 261.0 |
| 12/11/2001 | 251.0 | 256.0 |
| 12/12/2001 | 252.0 | 256.0 |
| 12/13/2001 | 254.0 | 256.0 |
| 12/14/2001 | 253.0 | 256.0 |
| 12/15/2001 | 252.0 | 254.0 |
| 12/16/2001 | 253.0 | 255.0 |
| 12/17/2001 | 252.0 | 256.0 |
| 12/18/2001 | 252.0 | 259.0 |
| 12/19/2001 | 255.0 | 260.0 |
| 12/20/2001 | 256.0 | 261.0 |
| 12/21/2001 | 250.0 | 264.0 |
| 12/22/2001 | 253.0 | 256.0 |
| 12/23/2001 | 250.0 | 257.0 |
| 12/24/2001 | 249.0 | 257.0 |
| 12/25/2001 | 253.0 | 260.0 |
| 12/26/2001 | 255.0 | 258.0 |
| 12/27/2001 | 256.0 | 259.0 |
| 12/28/2001 | 257.0 | 260.0 |
| 12/29/2001 | 256.0 | 260.0 |
| 12/30/2001 | 256.0 | 262.0 |
| 12/31/2001 | 255.0 | 260.0 |
| 1/1/2002 | 253.0 | 265.0 |
| 1/2/2002 | 250.0 | 263.0 |
| 1/3/2002 | 258.0 | 264.0 |
| 1/4/2002 | 257.0 | 264.0 |
| 1/5/2002 | 255.0 | 261.0 |
| 1/6/2002 | 256.0 | 261.0 |
| 1/7/2002 | 231.0 | 262.0 |
| 1/8/2002 | 256.0 | 265.0 |
| 1/9/2002 | 256.0 | 258.0 |
| 1/10/2002 | 257.0 | 263.0 |

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| | | |
|-----------|-------|-------|
| 1/11/2002 | 251.0 | 258.0 |
| 1/12/2002 | 251.0 | 257.0 |
| 1/13/2002 | 253.0 | 256.0 |
| 1/14/2002 | 254.0 | 259.0 |
| 1/15/2002 | 256.0 | 260.0 |
| 1/16/2002 | 251.0 | 259.0 |
| 1/17/2002 | 251.0 | 262.0 |
| 1/18/2002 | 258.0 | 261.0 |
| 1/19/2002 | 255.0 | 258.0 |
| 1/20/2002 | 257.0 | 260.0 |
| 1/21/2002 | 251.0 | 259.0 |
| 1/22/2002 | 256.0 | 258.0 |
| 1/23/2002 | 257.0 | 260.0 |
| 1/24/2002 | 256.0 | 260.0 |
| 1/25/2002 | 255.0 | 263.0 |
| 1/26/2002 | 257.0 | 260.0 |
| 1/27/2002 | 253.0 | 258.0 |
| 1/28/2002 | 253.0 | 255.0 |
| 1/29/2002 | 253.0 | 255.0 |
| 1/30/2002 | 252.0 | 257.0 |
| 1/31/2002 | 253.0 | 256.0 |
| 2/1/2002 | 252.0 | 258.0 |
| 2/2/2002 | 251.0 | 256.0 |
| 2/3/2002 | 254.0 | 256.0 |
| 2/4/2002 | 254.0 | 257.0 |
| 2/5/2002 | 257.0 | 263.0 |
| 2/6/2002 | 253.0 | 263.0 |
| 2/7/2002 | 253.0 | 257.0 |
| 2/8/2002 | 251.0 | 259.0 |
| 2/9/2002 | 257.0 | 260.0 |
| 2/10/2002 | 255.0 | 261.0 |
| 2/11/2002 | 252.0 | 257.0 |
| 2/12/2002 | 252.0 | 259.0 |
| 2/13/2002 | 253.0 | 261.0 |
| 2/14/2002 | 252.0 | 257.0 |
| 2/15/2002 | 252.0 | 257.0 |
| 2/16/2002 | 251.0 | 258.0 |
| 2/17/2002 | 251.0 | 258.0 |
| 2/18/2002 | 110.0 | 260.0 |
| 2/19/2002 | 257.0 | 260.0 |
| 2/20/2002 | 257.0 | 260.0 |
| 2/21/2002 | 255.0 | 258.0 |
| 2/22/2002 | 250.0 | 257.0 |
| 2/23/2002 | 252.0 | 255.0 |
| 2/24/2002 | 256.0 | 259.0 |
| 2/25/2002 | 220.0 | 261.0 |
| 2/26/2002 | 252.0 | 263.0 |
| 2/27/2002 | 249.0 | 265.0 |
| 2/28/2002 | 258.0 | 267.0 |

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| | | |
|-----------|-------|-------|
| 3/1/2002 | 257.0 | 260.0 |
| 3/2/2002 | 257.0 | 263.0 |
| 3/3/2002 | 237.0 | 264.0 |
| 3/4/2002 | 254.0 | 268.0 |
| 3/5/2002 | 253.0 | 260.0 |
| 3/6/2002 | 257.0 | 259.0 |
| 3/7/2002 | 259.0 | 262.0 |
| 3/8/2002 | 253.0 | 260.0 |
| 3/9/2002 | 254.0 | 263.0 |
| 3/10/2002 | 254.0 | 261.0 |
| 3/11/2002 | 255.0 | 259.0 |
| 3/12/2002 | 256.0 | 259.0 |
| 3/13/2002 | 254.0 | 258.0 |
| 3/14/2002 | 142.0 | 258.0 |
| 3/15/2002 | 254.0 | 258.0 |
| 3/16/2002 | 254.0 | 257.0 |
| 3/17/2002 | 255.0 | 257.0 |
| 3/18/2002 | 255.0 | 258.0 |
| 3/19/2002 | 255.0 | 257.0 |
| 3/20/2002 | 255.0 | 259.0 |
| 3/21/2002 | 254.0 | 266.0 |
| 3/22/2002 | 254.0 | 258.0 |
| 3/23/2002 | 255.0 | 268.0 |
| 3/24/2002 | 255.0 | 261.0 |
| 3/25/2002 | 257.0 | 260.0 |
| 3/26/2002 | 255.0 | 261.0 |
| 3/27/2002 | 255.0 | 263.0 |
| 3/28/2002 | 258.0 | 349.0 |
| 3/29/2002 | 260.0 | 264.0 |
| 3/30/2002 | 257.0 | 262.0 |
| 3/31/2002 | 257.0 | 269.0 |
| 4/1/2002 | 262.0 | 264.0 |
| 4/2/2002 | 260.0 | 266.0 |
| 4/3/2002 | 259.0 | 266.0 |
| 4/4/2002 | 254.0 | 263.0 |
| 4/5/2002 | 251.0 | 256.0 |
| 4/6/2002 | 248.0 | 257.8 |
| 4/7/2002 | 250.2 | 258.9 |
| 4/8/2002 | 217.3 | 266.1 |
| 4/9/2002 | 204.5 | 247.0 |
| 4/10/2002 | 222.0 | 236.2 |
| 4/11/2002 | 227.5 | 263.2 |
| 4/12/2002 | 184.6 | 263.9 |
| 4/13/2002 | 194.4 | 252.9 |
| 4/14/2002 | 192.7 | 264.7 |
| 4/15/2002 | 228.7 | 237.9 |
| 4/16/2002 | 208.0 | 232.8 |
| 4/17/2002 | 215.3 | 222.0 |
| 4/18/2002 | -4.1 | 262.0 |

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| | | |
|-----------|-------|-------|
| 4/19/2002 | 176.5 | 270.3 |
| 4/20/2002 | 183.9 | 278.2 |
| 4/21/2002 | 192.0 | 264.3 |
| 4/22/2002 | 214.3 | 236.3 |
| 4/23/2002 | 214.6 | 287.7 |
| 4/24/2002 | 204.8 | 258.7 |
| 4/25/2002 | 184.5 | 265.0 |
| 4/26/2002 | 197.9 | 267.5 |
| 4/27/2002 | 208.2 | 260.6 |
| 4/28/2002 | 226.1 | 245.2 |
| 4/29/2002 | 214.0 | 258.1 |
| 4/30/2002 | 180.6 | 262.5 |
| 5/1/2002 | 147.8 | 255.6 |
| 5/2/2002 | 198.8 | 290.9 |
| 5/3/2002 | 189.0 | 252.2 |
| 5/4/2002 | 198.2 | 243.8 |
| 5/5/2002 | 188.2 | 254.1 |
| 5/6/2002 | 209.9 | 244.1 |
| 5/7/2002 | 198.1 | 255.0 |
| 5/8/2002 | 208.0 | 245.5 |
| 5/9/2002 | 194.0 | 241.4 |
| 5/10/2002 | 196.2 | 238.0 |
| 5/11/2002 | 203.2 | 243.4 |
| 5/12/2002 | 187.8 | 244.1 |
| 5/13/2002 | 220.2 | 261.0 |
| 5/14/2002 | -5.9 | 262.0 |
| 5/15/2002 | 217.6 | 236.0 |
| 5/16/2002 | 194.9 | 255.1 |
| 5/17/2002 | 193.6 | 240.7 |
| 5/18/2002 | 216.1 | 238.2 |
| 5/19/2002 | 227.3 | 231.7 |
| 5/20/2002 | 219.3 | 232.4 |
| 5/21/2002 | 218.6 | 224.0 |
| 5/22/2002 | 217.3 | 226.2 |
| 5/23/2002 | 218.7 | 229.8 |
| 5/24/2002 | 220.3 | 224.3 |
| 5/25/2002 | 220.4 | 224.3 |
| 5/26/2002 | 220.6 | 231.2 |
| 5/27/2002 | 215.9 | 235.3 |
| 5/28/2002 | 256.9 | 266.8 |
| 5/29/2002 | 192.0 | 226.4 |
| 5/30/2002 | 207.2 | 240.9 |
| 5/31/2002 | 219.2 | 246.3 |
| 6/1/2002 | 203.0 | 247.0 |
| 6/2/2002 | 197.3 | 244.8 |
| 6/3/2002 | 206.4 | 222.2 |
| 6/4/2002 | 200.9 | 211.5 |
| 6/5/2002 | 200.6 | 203.4 |
| 6/6/2002 | 195.8 | 229.2 |

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| | | |
|-----------|-------|-------|
| 6/7/2002 | 213.4 | 228.4 |
| 6/8/2002 | 223.6 | 226.4 |
| 6/9/2002 | 216.5 | 231.5 |
| 6/10/2002 | 219.8 | 224.2 |
| 6/11/2002 | 219.8 | 224.3 |
| 6/12/2002 | 259.7 | 262.9 |
| 6/13/2002 | 209.4 | 227.5 |
| 6/14/2002 | 219.7 | 227.5 |
| 6/15/2002 | 219.5 | 231.2 |
| 6/16/2002 | 217.2 | 233.5 |
| 6/17/2002 | -2.2 | 262.0 |
| 6/18/2002 | 231.7 | 234.5 |
| 6/19/2002 | 231.9 | 234.7 |
| 6/20/2002 | 231.7 | 234.5 |
| 6/21/2002 | 223.9 | 234.1 |
| 6/22/2002 | 224.2 | 226.9 |
| 6/23/2002 | 214.6 | 227.0 |
| 6/24/2002 | 215.0 | 226.3 |
| 6/25/2002 | 212.8 | 227.4 |
| 6/26/2002 | 203.0 | 226.1 |
| 6/27/2002 | 202.8 | 227.0 |
| 6/28/2002 | 217.2 | 229.1 |
| 6/29/2002 | 226.4 | 229.1 |
| 6/30/2002 | 226.4 | 229.1 |
| 7/1/2002 | 226.1 | 228.8 |
| 7/2/2002 | 226.0 | 228.9 |
| 7/3/2002 | 226.4 | 228.8 |
| 7/4/2002 | 226.4 | 228.9 |
| 7/5/2002 | 226.4 | 228.8 |
| 7/6/2002 | 226.4 | 229.0 |
| 7/7/2002 | 226.7 | 240.0 |
| 7/8/2002 | 204.7 | 238.8 |
| 7/9/2002 | 207.4 | 215.3 |
| 7/10/2002 | 207.4 | 209.8 |
| 7/11/2002 | 195.8 | 210.6 |
| 7/12/2002 | 208.3 | 211.9 |
| 7/13/2002 | 209.6 | 211.9 |
| 7/14/2002 | 209.6 | 211.9 |
| 7/15/2002 | 209.6 | 211.9 |
| 7/16/2002 | 209.9 | 220.3 |
| 7/17/2002 | 212.7 | 220.3 |
| 7/18/2002 | 212.4 | 215.2 |
| 7/19/2002 | 212.7 | 219.2 |
| 7/20/2002 | 216.9 | 226.1 |
| 7/21/2002 | 220.5 | 225.6 |
| 7/22/2002 | 250.2 | 303.3 |
| 7/23/2002 | 250.6 | 255.1 |
| 7/24/2002 | 250.9 | 259.0 |
| 7/25/2002 | 214.8 | 218.3 |

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| | | |
|-----------|-------|-------|
| 7/26/2002 | 215.0 | 218.1 |
| 7/27/2002 | 215.0 | 218.3 |
| 7/28/2002 | 204.7 | 218.3 |
| 7/29/2002 | 204.4 | 207.0 |
| 7/30/2002 | 204.8 | 207.0 |
| 7/31/2002 | 204.8 | 206.9 |
| 8/1/2002 | 204.7 | 206.9 |
| 8/2/2002 | 204.8 | 212.7 |
| 8/3/2002 | 206.9 | 208.8 |
| 8/4/2002 | 206.7 | 208.9 |
| 8/5/2002 | 206.7 | 214.2 |
| 8/6/2002 | 205.2 | 213.8 |
| 8/7/2002 | 205.2 | 207.2 |
| 8/8/2002 | 205.5 | 212.3 |
| 8/9/2002 | 210.3 | 223.6 |
| 8/10/2002 | 210.5 | 223.4 |
| 8/11/2002 | 220.6 | 223.6 |
| 8/12/2002 | 209.8 | 223.0 |
| 8/13/2002 | 210.0 | 212.0 |
| 8/14/2002 | 210.2 | 212.3 |
| 8/15/2002 | 209.8 | 217.3 |
| 8/16/2002 | 210.0 | 212.2 |
| 8/17/2002 | 210.2 | 220.3 |
| 8/18/2002 | 217.8 | 220.2 |
| 8/19/2002 | 217.5 | 220.0 |
| 8/20/2002 | 217.7 | 220.2 |
| 8/21/2002 | 217.5 | 220.0 |
| 8/22/2002 | 217.7 | 220.2 |
| 8/23/2002 | 217.6 | 219.9 |
| 8/24/2002 | 217.7 | 219.7 |
| 8/25/2002 | 217.4 | 219.7 |
| 8/26/2002 | 207.1 | 219.9 |
| 8/27/2002 | 194.3 | 209.1 |
| 8/28/2002 | 203.2 | 213.8 |
| 8/29/2002 | 206.6 | 214.3 |
| 8/30/2002 | 206.6 | 224.4 |
| 8/31/2002 | 219.0 | 221.9 |
| 9/1/2002 | 219.1 | 221.8 |
| 9/2/2002 | 218.8 | 221.8 |
| 9/3/2002 | 218.8 | 229.9 |
| 9/4/2002 | 220.5 | 229.9 |
| 9/5/2002 | 220.1 | 224.1 |
| 9/6/2002 | 220.7 | 224.0 |
| 9/7/2002 | 220.7 | 224.0 |
| 9/8/2002 | 220.4 | 224.0 |
| 9/9/2002 | 220.1 | 223.6 |
| 9/10/2002 | 212.1 | 224.1 |
| 9/11/2002 | 212.1 | 215.4 |
| 9/12/2002 | 212.6 | 370.6 |

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| | | |
|------------|-------|-------|
| 9/13/2002 | 212.7 | 215.5 |
| 9/14/2002 | 212.9 | 216.2 |
| 9/15/2002 | 212.9 | 215.4 |
| 9/16/2002 | 212.7 | 215.5 |
| 9/17/2002 | 212.1 | 215.5 |
| 9/18/2002 | 208.5 | 215.7 |
| 9/19/2002 | -1.6 | 234.7 |
| 9/20/2002 | 218.0 | 222.5 |
| 9/21/2002 | 218.9 | 222.4 |
| 9/22/2002 | 200.0 | 222.2 |
| 9/23/2002 | 200.5 | 248.4 |
| 9/24/2002 | 204.1 | 206.6 |
| 9/25/2002 | 204.6 | 206.7 |
| 9/26/2002 | 204.6 | 207.1 |
| 9/27/2002 | 204.9 | 214.7 |
| 9/28/2002 | 212.5 | 214.6 |
| 9/29/2002 | 211.3 | 214.7 |
| 9/30/2002 | 211.0 | 214.4 |
| 10/1/2002 | 212.1 | 214.7 |
| 10/2/2002 | 211.7 | 214.9 |
| 10/3/2002 | 212.2 | 214.9 |
| 10/4/2002 | 211.7 | 223.3 |
| 10/5/2002 | 220.0 | 223.1 |
| 10/6/2002 | 206.4 | 222.8 |
| 10/7/2002 | 201.0 | 209.1 |
| 10/8/2002 | 201.4 | 219.9 |
| 10/9/2002 | 219.1 | 225.5 |
| 10/10/2002 | 211.4 | 225.3 |
| 10/11/2002 | 211.3 | 229.2 |
| 10/12/2002 | 218.1 | 229.5 |
| 10/13/2002 | 191.4 | 241.6 |
| 10/14/2002 | 208.0 | 233.9 |
| 10/15/2002 | 214.7 | 227.0 |
| 10/16/2002 | 212.5 | 226.0 |
| 10/17/2002 | 212.8 | 227.8 |
| 10/18/2002 | 212.8 | 216.9 |
| 10/19/2002 | 192.2 | 216.9 |
| 10/20/2002 | 192.7 | 226.6 |
| 10/21/2002 | 214.7 | 227.0 |
| 10/22/2002 | 219.2 | 232.4 |
| 10/23/2002 | 257.7 | 261.3 |
| 10/24/2002 | 221.7 | 225.9 |
| 10/25/2002 | 222.7 | 226.0 |
| 10/26/2002 | 222.2 | 226.2 |
| 10/27/2002 | 221.4 | 227.2 |
| 10/27/2002 | 259.3 | 262.1 |
| 10/28/2002 | 221.6 | 225.8 |
| 10/28/2002 | 256.3 | 261.2 |
| 10/29/2002 | 200.7 | 227.3 |

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| | | |
|------------|-------|-------|
| 10/29/2002 | 255.8 | 263.1 |
| 10/30/2002 | 199.9 | 240.6 |
| 10/30/2002 | 258.5 | 263.1 |
| 10/31/2002 | 216.1 | 224.1 |
| 10/31/2002 | 259.0 | 263.7 |
| 11/1/2002 | 212.7 | 234.7 |
| 11/1/2002 | 260.2 | 265.0 |
| 11/2/2002 | 211.1 | 225.6 |
| 11/2/2002 | 262.3 | 265.4 |
| 11/3/2002 | 222.8 | 241.4 |
| 11/3/2002 | 260.4 | 265.1 |
| 11/4/2002 | 220.9 | 272.2 |
| 11/4/2002 | 260.7 | 263.7 |
| 11/5/2002 | 216.1 | 223.1 |
| 11/5/2002 | 259.9 | 263.5 |
| 11/6/2002 | 202.7 | 225.5 |
| 11/6/2002 | 259.1 | 262.9 |
| 11/7/2002 | 205.0 | 233.6 |
| 11/7/2002 | 260.7 | 264.4 |
| 11/8/2002 | 201.9 | 226.2 |
| 11/8/2002 | 256.6 | 265.4 |
| 11/9/2002 | 202.2 | 226.4 |
| 11/9/2002 | 256.4 | 260.5 |
| 11/10/2002 | 204.0 | 237.1 |
| 11/10/2002 | 255.6 | 259.3 |
| 11/11/2002 | 207.4 | 232.0 |
| 11/11/2002 | 257.2 | 261.8 |
| 11/12/2002 | 206.6 | 225.3 |
| 11/12/2002 | 258.8 | 263.0 |
| 11/13/2002 | 218.0 | 246.5 |
| 11/13/2002 | 259.9 | 264.1 |
| 11/14/2002 | 210.0 | 225.0 |
| 11/14/2002 | 259.9 | 264.0 |
| 11/15/2002 | 209.9 | 232.5 |
| 11/15/2002 | 259.3 | 263.3 |
| 11/16/2002 | 220.8 | 238.2 |
| 11/16/2002 | 259.3 | 262.7 |
| 11/17/2002 | 191.6 | 232.8 |
| 11/17/2002 | 257.2 | 264.4 |
| 11/18/2002 | 221.1 | 263.8 |
| 11/18/2002 | 256.9 | 262.4 |
| 11/19/2002 | 224.4 | 237.8 |
| 11/19/2002 | 257.7 | 262.9 |
| 11/20/2002 | 217.5 | 231.2 |
| 11/20/2002 | 257.5 | 262.4 |
| 11/21/2002 | 0.0 | 0.0 |
| 11/21/2002 | 258.9 | 264.0 |
| 11/22/2002 | 220.3 | 223.8 |
| 11/22/2002 | 257.1 | 260.7 |

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| | | |
|------------|-------|-------|
| 11/23/2002 | 215.9 | 225.5 |
| 11/23/2002 | 257.5 | 261.5 |
| 11/24/2002 | 223.4 | 226.8 |
| 11/24/2002 | 256.7 | 261.8 |
| 11/25/2002 | 223.2 | 226.0 |
| 11/25/2002 | 252.8 | 258.6 |
| 11/26/2002 | 220.3 | 226.5 |
| 11/26/2002 | 255.8 | 262.2 |
| 11/27/2002 | 209.7 | 226.5 |
| 11/27/2002 | 258.5 | 262.2 |
| 11/28/2002 | 209.5 | 222.4 |
| 11/28/2002 | 245.8 | 262.4 |
| 11/29/2002 | 217.8 | 231.0 |
| 11/29/2002 | 257.1 | 262.4 |
| 11/30/2002 | 213.9 | 230.5 |
| 11/30/2002 | 256.6 | 264.6 |
| 12/1/2002 | 214.5 | 227.2 |
| 12/1/2002 | 260.2 | 266.2 |
| 12/2/2002 | 204.6 | 225.7 |
| 12/2/2002 | 262.2 | 267.9 |
| 12/3/2002 | 208.4 | 226.0 |
| 12/3/2002 | 263.3 | 269.5 |
| 12/4/2002 | 219.0 | 228.8 |
| 12/4/2002 | 264.9 | 267.9 |
| 12/5/2002 | 222.7 | 226.3 |
| 12/5/2002 | 263.8 | 268.2 |
| 12/6/2002 | 218.2 | 229.1 |
| 12/6/2002 | 262.6 | 267.4 |
| 12/7/2002 | 225.8 | 236.1 |
| 12/7/2002 | 262.4 | 267.6 |
| 12/8/2002 | 209.8 | 236.6 |
| 12/8/2002 | 250.9 | 269.8 |
| 12/9/2002 | 220.1 | 227.9 |
| 12/9/2002 | 250.8 | 264.4 |
| 12/10/2002 | 217.0 | 226.8 |
| 12/10/2002 | 260.9 | 264.5 |
| 12/11/2002 | 212.5 | 226.0 |
| 12/11/2002 | 0.0 | 265.8 |
| 12/12/2002 | 210.9 | 225.8 |
| 12/12/2002 | 260.0 | 265.8 |
| 12/13/2002 | 215.8 | 225.5 |
| 12/13/2002 | 252.7 | 261.2 |
| 12/14/2002 | 210.0 | 228.8 |
| 12/14/2002 | 252.3 | 263.6 |
| 12/15/2002 | 217.8 | 228.8 |
| 12/15/2002 | 252.4 | 263.6 |
| 12/16/2002 | 218.7 | 236.7 |
| 12/16/2002 | 251.2 | 262.0 |
| 12/17/2002 | 223.5 | 232.8 |

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| | | |
|------------|-------|-------|
| 12/17/2002 | 253.1 | 259.8 |
| 12/18/2002 | 0.0 | 0.0 |
| 12/18/2002 | 253.5 | 257.0 |
| 12/19/2002 | -0.5 | 224.6 |
| 12/19/2002 | 251.5 | 255.7 |
| 12/20/2002 | 211.5 | 229.3 |
| 12/20/2002 | 250.7 | 255.3 |
| 12/21/2002 | 212.1 | 222.4 |
| 12/21/2002 | 252.6 | 254.9 |
| 12/22/2002 | 214.8 | 227.6 |
| 12/22/2002 | 246.2 | 257.1 |
| 12/23/2002 | 225.6 | 235.7 |
| 12/23/2002 | 253.8 | 259.2 |
| 12/24/2002 | 223.5 | 237.0 |
| 12/24/2002 | 250.9 | 259.2 |
| 12/25/2002 | 223.7 | 231.5 |
| 12/25/2002 | 247.1 | 259.8 |
| 12/26/2002 | 223.5 | 241.6 |
| 12/26/2002 | 256.7 | 260.7 |
| 12/27/2002 | 234.2 | 246.5 |
| 12/27/2002 | 257.0 | 263.1 |
| 12/28/2002 | 223.7 | 245.7 |
| 12/28/2002 | 257.1 | 262.6 |
| 12/29/2002 | 224.2 | 227.1 |
| 12/29/2002 | 253.5 | 262.6 |
| 12/30/2002 | 224.9 | 232.3 |
| 12/30/2002 | 253.8 | 256.5 |
| 12/31/2002 | 224.3 | 232.0 |
| 12/31/2002 | 252.4 | 255.4 |
| 1/1/2003 | 224.5 | 228.4 |
| 1/1/2003 | 252.3 | 257.5 |
| 1/2/2003 | 217.3 | 228.1 |
| 1/2/2003 | 255.7 | 260.9 |
| 1/3/2003 | 217.5 | 229.3 |
| 1/3/2003 | 259.0 | 262.5 |
| 1/4/2003 | 225.6 | 235.9 |
| 1/4/2003 | 260.3 | 264.2 |
| 1/5/2003 | 222.4 | 235.7 |
| 1/5/2003 | 257.6 | 262.9 |
| 1/6/2003 | 214.8 | 231.0 |
| 1/6/2003 | 254.5 | 260.4 |
| 1/7/2003 | 216.2 | 232.6 |
| 1/7/2003 | 253.1 | 260.9 |
| 1/8/2003 | 222.6 | 241.3 |
| 1/8/2003 | 254.6 | 258.4 |
| 1/9/2003 | 212.8 | 226.8 |
| 1/9/2003 | 254.3 | 258.7 |
| 1/10/2003 | 212.5 | 229.0 |
| 1/10/2003 | 253.7 | 259.6 |

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| | | |
|-----------|-------|-------|
| 1/11/2003 | 219.5 | 229.5 |
| 1/11/2003 | 251.2 | 259.5 |
| 1/12/2003 | 215.1 | 242.1 |
| 1/12/2003 | 253.2 | 262.9 |
| 1/13/2003 | 213.9 | 237.1 |
| 1/13/2003 | 257.6 | 262.9 |
| 1/14/2003 | 214.2 | 234.5 |
| 1/14/2003 | 257.0 | 261.2 |
| 1/15/2003 | 208.4 | 230.1 |
| 1/15/2003 | 259.6 | 264.8 |
| 1/16/2003 | 215.4 | 231.0 |
| 1/16/2003 | 258.6 | 264.0 |
| 1/17/2003 | 215.4 | 223.7 |
| 1/17/2003 | 251.3 | 263.9 |
| 1/18/2003 | 215.3 | 245.9 |
| 1/18/2003 | 253.2 | 263.7 |
| 1/19/2003 | 213.4 | 246.2 |
| 1/19/2003 | 258.9 | 264.8 |
| 1/20/2003 | 212.8 | 228.7 |
| 1/20/2003 | 256.8 | 262.2 |
| 1/21/2003 | 225.3 | 243.4 |
| 1/21/2003 | 257.1 | 262.3 |
| 1/22/2003 | -0.3 | 267.0 |
| 1/22/2003 | 259.0 | 266.4 |
| 1/23/2003 | 263.3 | 275.0 |
| 1/24/2003 | 269.4 | 276.7 |
| 1/25/2003 | 270.8 | 277.8 |
| 1/26/2003 | 267.0 | 274.7 |
| 1/27/2003 | 256.2 | 271.7 |
| 1/28/2003 | 256.0 | 259.3 |
| 1/29/2003 | 254.6 | 258.6 |
| 1/30/2003 | 255.6 | 262.5 |
| 1/31/2003 | 257.1 | 264.7 |
| 2/1/2003 | 257.5 | 260.1 |
| 2/2/2003 | 255.1 | 262.0 |
| 2/3/2003 | 255.4 | 275.5 |
| 2/4/2003 | 259.8 | 279.3 |
| 2/5/2003 | 263.9 | 277.7 |
| 2/6/2003 | 266.7 | 271.1 |
| 2/7/2003 | 259.2 | 276.6 |
| 2/8/2003 | 258.1 | 279.1 |
| 2/9/2003 | 254.9 | 264.5 |
| 2/10/2003 | 258.7 | 261.9 |
| 2/11/2003 | 259.5 | 265.0 |
| 2/12/2003 | 259.8 | 266.6 |
| 2/13/2003 | 261.2 | 267.2 |
| 2/14/2003 | 258.7 | 264.4 |
| 2/15/2003 | 257.3 | 261.2 |
| 2/16/2003 | 260.6 | 284.8 |

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| | | |
|-----------|-------|-------|
| 2/17/2003 | 256.5 | 282.4 |
| 2/18/2003 | 258.9 | 262.0 |
| 2/19/2003 | 258.1 | 262.0 |
| 2/20/2003 | 257.0 | 263.1 |
| 2/21/2003 | 257.3 | 262.3 |
| 2/22/2003 | 257.9 | 261.9 |
| 2/23/2003 | 255.1 | 262.6 |
| 2/24/2003 | 256.7 | 262.2 |
| 2/25/2003 | 257.9 | 262.6 |
| 2/26/2003 | 259.0 | 263.0 |
| 2/27/2003 | 257.5 | 263.3 |
| 2/28/2003 | 258.7 | 261.1 |
| 3/1/2003 | 258.4 | 263.3 |
| 3/2/2003 | 254.8 | 260.1 |
| 3/3/2003 | 254.9 | 260.8 |
| 3/4/2003 | 256.8 | 262.6 |
| 3/5/2003 | 253.5 | 258.8 |
| 3/6/2003 | 252.7 | 259.4 |
| 3/7/2003 | 251.9 | 260.2 |
| 3/8/2003 | 245.8 | 256.8 |
| 3/9/2003 | 246.9 | 260.7 |
| 3/10/2003 | 254.4 | 262.4 |
| 3/11/2003 | 252.4 | 260.4 |
| 3/12/2003 | 253.6 | 258.2 |
| 3/13/2003 | 254.2 | 259.0 |
| 3/14/2003 | 253.8 | 259.0 |
| 3/15/2003 | 253.1 | 256.1 |
| 3/16/2003 | 253.5 | 255.8 |
| 3/17/2003 | 251.3 | 254.7 |
| 3/18/2003 | 252.4 | 254.7 |
| 3/19/2003 | 252.4 | 255.7 |
| 3/20/2003 | 251.9 | 256.0 |
| 3/21/2003 | 251.3 | 256.9 |
| 3/22/2003 | 255.7 | 258.5 |
| 3/23/2003 | 255.2 | 258.6 |
| 3/24/2003 | 255.7 | 257.9 |
| 3/25/2003 | 251.9 | 256.6 |
| 3/26/2003 | 249.4 | 253.8 |
| 3/27/2003 | 252.2 | 270.6 |
| 3/28/2003 | 251.6 | 266.5 |
| 3/29/2003 | 252.0 | 258.0 |
| 3/30/2003 | 255.8 | 262.6 |
| 3/31/2003 | 253.6 | 263.2 |
| 4/1/2003 | 216.6 | 326.9 |
| 4/2/2003 | 258.2 | 260.1 |
| 4/3/2003 | 256.8 | 261.5 |
| 4/4/2003 | 258.0 | 259.9 |
| 4/5/2003 | 251.9 | 261.3 |
| 4/6/2003 | 255.8 | 261.9 |

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|-----------|-------|-------|
| 4/7/2003 | 253.1 | 259.7 |
| 4/8/2003 | 245.4 | 327.1 |
| 4/9/2003 | 245.3 | 270.3 |
| 4/10/2003 | 247.5 | 264.9 |
| 4/11/2003 | 256.9 | 260.2 |
| 4/12/2003 | 256.8 | 259.3 |
| 4/13/2003 | 256.6 | 259.3 |
| 4/14/2003 | 257.1 | 258.8 |
| 4/15/2003 | 257.4 | 258.8 |
| 4/16/2003 | 257.4 | 258.8 |
| 4/17/2003 | 257.4 | 258.6 |
| 4/18/2003 | 257.1 | 258.5 |
| 4/19/2003 | 256.9 | 258.8 |
| 4/20/2003 | 257.2 | 258.8 |
| 4/21/2003 | 256.4 | 258.6 |
| 4/22/2003 | 245.8 | 262.4 |
| 4/23/2003 | 253.0 | 258.0 |
| 4/24/2003 | 249.2 | 264.1 |
| 4/25/2003 | 261.3 | 264.0 |
| 4/26/2003 | 260.4 | 262.9 |
| 4/27/2003 | 260.8 | 263.2 |
| 4/29/2003 | 261.8 | 263.2 |
| 4/30/2003 | 261.5 | 262.6 |
| 5/1/2003 | 261.3 | 263.2 |
| 5/2/2003 | 261.9 | 263.2 |
| 5/3/2003 | 261.6 | 263.2 |
| 5/4/2003 | 261.6 | 262.1 |
| 5/5/2003 | 262.1 | 262.6 |
| 5/6/2003 | 261.8 | 263.2 |
| 5/7/2003 | 262.2 | 263.2 |
| 5/8/2003 | 261.9 | 263.2 |
| 5/9/2003 | 261.8 | 263.0 |
| 5/10/2003 | 261.8 | 263.0 |
| 5/11/2003 | 251.7 | 280.9 |
| 5/12/2003 | 251.9 | 257.5 |
| 5/13/2003 | 252.0 | 253.6 |
| 5/14/2003 | 252.4 | 253.5 |
| 5/15/2003 | 252.0 | 253.3 |
| 5/16/2003 | 251.9 | 253.0 |
| 5/17/2003 | 251.9 | 253.0 |
| 5/18/2003 | 251.9 | 253.0 |
| 5/19/2003 | 252.0 | 252.5 |
| 5/20/2003 | 252.5 | 260.1 |
| 5/21/2003 | 252.0 | 260.5 |
| 5/22/2003 | 252.0 | 253.5 |
| 5/23/2003 | 252.2 | 256.4 |
| 5/24/2003 | 252.4 | 256.4 |
| 5/25/2003 | 252.4 | 256.1 |
| 5/26/2003 | 254.7 | 256.4 |

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| | | |
|-----------|-------|-------|
| 5/27/2003 | 255.2 | 256.6 |
| 5/28/2003 | 252.0 | 255.5 |
| 5/29/2003 | 252.2 | 253.6 |
| 5/30/2003 | 252.2 | 253.3 |
| 5/31/2003 | 252.4 | 253.5 |
| 6/1/2003 | 252.2 | 253.6 |
| 6/2/2003 | 251.9 | 253.6 |
| 6/3/2003 | 252.2 | 253.6 |
| 6/4/2003 | 252.0 | 253.5 |
| 6/5/2003 | 252.3 | 253.7 |
| 6/6/2003 | 252.4 | 253.5 |
| 6/7/2003 | 252.3 | 253.5 |
| 6/8/2003 | 252.1 | 253.7 |
| 6/9/2003 | 252.3 | 253.8 |
| 6/10/2003 | 252.4 | 253.7 |
| 6/11/2003 | 252.4 | 253.5 |
| 6/12/2003 | 252.4 | 253.4 |
| 6/13/2003 | 252.3 | 253.5 |
| 6/14/2003 | 252.3 | 253.5 |
| 6/15/2003 | 252.3 | 253.7 |
| 6/16/2003 | 252.4 | 253.7 |
| 6/17/2003 | 252.4 | 253.7 |
| 6/18/2003 | 252.3 | 253.7 |
| 6/19/2003 | 252.6 | 253.7 |
| 6/20/2003 | 252.6 | 254.0 |
| 6/21/2003 | 252.3 | 253.7 |
| 6/22/2003 | 252.1 | 253.7 |
| 6/23/2003 | 252.3 | 253.8 |
| 6/24/2003 | 252.3 | 253.8 |
| 6/25/2003 | 252.3 | 254.0 |
| 6/26/2003 | 252.7 | 253.4 |
| 6/27/2003 | 252.6 | 254.2 |
| 6/28/2003 | 252.6 | 254.2 |
| 6/29/2003 | 252.6 | 254.0 |
| 6/30/2003 | 252.6 | 254.0 |
| 7/1/2003 | 252.6 | 254.0 |
| 7/2/2003 | 252.6 | 253.8 |
| 7/3/2003 | 252.1 | 253.8 |
| 7/4/2003 | 252.3 | 253.7 |
| 7/5/2003 | 252.3 | 253.8 |
| 7/6/2003 | 252.3 | 253.5 |
| 7/7/2003 | 252.1 | 253.4 |
| 7/8/2003 | 252.1 | 253.7 |
| 7/9/2003 | 252.4 | 253.8 |
| 7/10/2003 | 252.7 | 253.9 |
| 7/11/2003 | 252.7 | 254.1 |
| 7/12/2003 | 252.7 | 254.1 |
| 7/13/2003 | 252.7 | 254.1 |
| 7/14/2003 | 252.5 | 253.9 |

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| | | |
|-----------|-------|-------|
| 7/15/2003 | 252.8 | 253.8 |
| 7/16/2003 | 252.4 | 253.9 |
| 7/17/2003 | 252.5 | 253.9 |
| 7/18/2003 | 252.5 | 253.9 |
| 7/19/2003 | 252.5 | 253.8 |
| 7/20/2003 | 252.4 | 253.6 |
| 7/21/2003 | 252.7 | 253.8 |
| 7/22/2003 | 252.4 | 253.6 |
| 7/23/2003 | 252.4 | 253.8 |
| 7/24/2003 | 252.2 | 253.3 |
| 7/25/2003 | 251.7 | 253.5 |
| 7/26/2003 | 252.0 | 253.5 |
| 7/27/2003 | 252.2 | 253.5 |
| 7/28/2003 | 252.7 | 254.1 |
| 7/29/2003 | 252.7 | 254.1 |
| 7/30/2003 | 252.5 | 253.8 |
| 7/31/2003 | 252.4 | 253.8 |
| 8/1/2003 | 252.4 | 253.8 |
| 8/2/2003 | 252.7 | 253.8 |
| 8/3/2003 | 252.5 | 253.8 |
| 8/4/2003 | 252.5 | 253.6 |
| 8/5/2003 | 252.5 | 253.9 |
| 8/6/2003 | 252.5 | 292.4 |
| 8/7/2003 | 249.1 | 290.9 |
| 8/8/2003 | 249.5 | 251.0 |
| 8/9/2003 | 249.6 | 251.0 |
| 8/10/2003 | 249.6 | 272.2 |
| 8/11/2003 | 250.1 | 275.8 |
| 8/12/2003 | 249.6 | 250.9 |
| 8/13/2003 | 249.6 | 250.7 |
| 8/14/2003 | 249.0 | 250.5 |
| 8/15/2003 | 249.3 | 251.0 |
| 8/16/2003 | 249.6 | 250.9 |
| 8/17/2003 | 249.9 | 250.9 |
| 8/18/2003 | 249.5 | 251.0 |
| 8/19/2003 | 249.9 | 251.2 |
| 8/20/2003 | 249.8 | 251.0 |
| 8/21/2003 | 249.5 | 250.7 |
| 8/22/2003 | 249.3 | 251.2 |
| 8/23/2003 | 250.1 | 251.5 |
| 8/24/2003 | 250.1 | 251.3 |
| 8/25/2003 | 249.8 | 251.0 |
| 8/26/2003 | 249.9 | 251.0 |
| 8/27/2003 | 249.9 | 251.0 |
| 8/28/2003 | 249.6 | 250.9 |
| 8/29/2003 | 249.8 | 251.0 |
| 8/30/2003 | 250.2 | 251.3 |
| 8/31/2003 | 250.2 | 251.3 |
| 9/1/2003 | 250.2 | 251.3 |

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| | | |
|------------|-------|-------|
| 9/2/2003 | 250.5 | 251.2 |
| 9/3/2003 | 250.2 | 251.3 |
| 9/4/2003 | 250.4 | 251.6 |
| 9/5/2003 | 250.5 | 251.6 |
| 9/6/2003 | 250.4 | 251.6 |
| 9/7/2003 | 250.5 | 251.5 |
| 9/8/2003 | 250.5 | 251.6 |
| 9/9/2003 | 250.4 | 251.6 |
| 9/10/2003 | 250.1 | 251.3 |
| 9/11/2003 | 250.1 | 251.5 |
| 9/12/2003 | 250.2 | 251.5 |
| 9/13/2003 | 250.1 | 251.5 |
| 9/14/2003 | 250.5 | 251.5 |
| 9/15/2003 | 249.1 | 281.5 |
| 9/16/2003 | 249.1 | 250.7 |
| 9/17/2003 | 249.0 | 250.9 |
| 9/18/2003 | 249.5 | 250.7 |
| 9/19/2003 | 249.6 | 250.9 |
| 9/20/2003 | 249.3 | 250.9 |
| 9/21/2003 | 249.5 | 250.7 |
| 9/22/2003 | 241.0 | 306.4 |
| 9/23/2003 | 209.4 | 255.6 |
| 9/24/2003 | 254.2 | 259.2 |
| 9/25/2003 | 249.3 | 259.3 |
| 9/26/2003 | 250.7 | 251.6 |
| 9/27/2003 | 250.7 | 252.0 |
| 9/28/2003 | 250.4 | 251.8 |
| 9/29/2003 | 249.6 | 251.6 |
| 9/30/2003 | 249.5 | 251.5 |
| 10/1/2003 | 250.4 | 252.7 |
| 10/2/2003 | 251.0 | 253.8 |
| 10/3/2003 | 252.3 | 254.3 |
| 10/4/2003 | 252.6 | 254.5 |
| 10/5/2003 | 253.1 | 254.8 |
| 10/6/2003 | 251.8 | 254.8 |
| 10/7/2003 | 251.6 | 253.1 |
| 10/8/2003 | 252.0 | 253.0 |
| 10/9/2003 | 251.9 | 253.1 |
| 10/10/2003 | 252.2 | 253.1 |
| 10/11/2003 | 252.0 | 253.1 |
| 10/12/2003 | 251.6 | 253.1 |
| 10/13/2003 | 251.9 | 253.1 |
| 10/14/2003 | 250.5 | 252.8 |
| 10/15/2003 | 250.2 | 252.4 |
| 10/16/2003 | 251.3 | 253.0 |
| 10/17/2003 | 249.5 | 252.4 |
| 10/18/2003 | 250.2 | 252.5 |
| 10/19/2003 | 251.4 | 253.5 |
| 10/20/2003 | 252.2 | 253.3 |

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| | | |
|------------|-------|-------|
| 10/21/2003 | 251.6 | 253.3 |
| 10/22/2003 | 250.6 | 252.7 |
| 10/23/2003 | 249.8 | 252.7 |
| 10/24/2003 | 250.8 | 253.0 |
| 10/25/2003 | 251.7 | 253.6 |
| 10/26/2003 | 249.1 | 252.4 |
| 10/27/2003 | 247.0 | 252.2 |
| 10/28/2003 | 226.9 | 251.7 |
| 10/29/2003 | 250.9 | 253.6 |
| 10/30/2003 | 251.9 | 254.6 |
| 10/31/2003 | 252.4 | 253.6 |
| 11/1/2003 | 252.0 | 253.3 |
| 11/2/2003 | 252.0 | 253.6 |
| 11/3/2003 | 245.4 | 277.5 |
| 11/4/2003 | 259.3 | 264.0 |
| 11/5/2003 | 258.6 | 275.3 |
| 11/6/2003 | 258.2 | 281.5 |
| 11/7/2003 | 252.7 | 265.9 |
| 11/8/2003 | 255.5 | 258.8 |
| 11/9/2003 | 257.8 | 261.0 |
| 11/10/2003 | 256.4 | 261.9 |
| 11/11/2003 | 257.2 | 259.1 |
| 11/12/2003 | 148.0 | 258.8 |
| 11/13/2003 | 149.2 | 254.4 |
| 11/14/2003 | 254.1 | 256.6 |
| 11/15/2003 | 254.9 | 257.5 |
| 11/16/2003 | 251.3 | 257.5 |
| 11/17/2003 | 254.9 | 257.4 |
| 11/18/2003 | 252.7 | 257.4 |
| 11/19/2003 | 248.0 | 267.3 |
| 11/20/2003 | 255.8 | 260.0 |
| 11/21/2003 | 257.5 | 259.3 |
| 11/22/2003 | 258.2 | 259.7 |
| 11/23/2003 | 257.8 | 259.7 |
| 11/24/2003 | 223.0 | 264.3 |
| 11/25/2003 | 144.4 | 265.2 |
| 11/26/2003 | 145.5 | 255.6 |
| 11/27/2003 | 250.2 | 255.2 |
| 11/28/2003 | 248.1 | 269.0 |
| 11/29/2003 | 253.0 | 257.2 |
| 11/30/2003 | 255.2 | 283.3 |
| 12/1/2003 | 245.0 | 279.5 |
| 12/2/2003 | 245.9 | 267.7 |
| 12/3/2003 | 266.6 | 269.9 |
| 12/4/2003 | 262.9 | 269.6 |
| 12/5/2003 | 257.7 | 264.0 |
| 12/6/2003 | 246.9 | 262.6 |
| 12/7/2003 | 139.8 | 264.3 |
| 12/8/2003 | 147.7 | 153.0 |

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|------------|-------|-------|
| 12/9/2003 | 149.7 | 264.0 |
| 12/10/2003 | 256.0 | 261.3 |
| 12/11/2003 | 243.1 | 259.9 |
| 12/12/2003 | 254.7 | 259.6 |
| 12/13/2003 | 254.9 | 258.6 |
| 12/14/2003 | 256.1 | 259.3 |
| 12/15/2003 | 257.2 | 259.7 |
| 12/16/2003 | 254.1 | 260.5 |
| 12/17/2003 | 254.9 | 263.0 |
| 12/18/2003 | 255.5 | 258.6 |
| 12/19/2003 | 257.5 | 262.7 |
| 12/20/2003 | 257.1 | 264.1 |
| 12/21/2003 | 253.0 | 264.1 |
| 12/22/2003 | 253.6 | 256.0 |
| 12/23/2003 | 254.2 | 264.0 |
| 12/24/2003 | 258.6 | 265.2 |
| 12/25/2003 | 259.6 | 263.3 |
| 12/26/2003 | 260.8 | 267.1 |
| 12/27/2003 | 258.5 | 265.7 |
| 12/28/2003 | 253.5 | 263.3 |
| 12/29/2003 | 252.4 | 259.4 |
| 12/30/2003 | 252.8 | 266.0 |
| 12/31/2003 | 251.7 | 264.8 |
| 1/1/2004 | 252.2 | 255.5 |
| 1/2/2004 | 254.2 | 256.4 |
| 1/3/2004 | 253.9 | 257.4 |
| 1/4/2004 | 253.1 | 257.4 |
| 1/5/2004 | 253.3 | 264.3 |
| 1/6/2004 | 255.5 | 260.2 |
| 1/7/2004 | 258.2 | 261.8 |
| 1/8/2004 | 255.2 | 264.0 |
| 1/9/2004 | 253.9 | 257.5 |
| 1/10/2004 | 253.9 | 258.2 |
| 1/11/2004 | 248.9 | 258.0 |
| 1/12/2004 | 254.2 | 259.3 |
| 1/13/2004 | 249.2 | 260.0 |
| 1/14/2004 | 253.0 | 259.6 |
| 1/15/2004 | 255.6 | 260.2 |
| 1/16/2004 | 254.7 | 258.3 |
| 1/17/2004 | 255.0 | 259.7 |
| 1/18/2004 | 256.0 | 259.9 |
| 1/19/2004 | 259.3 | 270.6 |
| 1/20/2004 | 252.2 | 262.2 |
| 1/21/2004 | 256.0 | 259.7 |
| 1/22/2004 | 254.2 | 271.0 |
| 1/23/2004 | 256.0 | 267.4 |
| 1/24/2004 | 256.6 | 262.4 |
| 1/25/2004 | 256.4 | 261.5 |
| 1/26/2004 | 248.4 | 260.7 |

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|-----------|-------|-------|
| 1/27/2004 | 255.6 | 268.2 |
| 1/28/2004 | 255.2 | 262.2 |
| 1/29/2004 | 247.5 | 273.2 |
| 1/30/2004 | 258.0 | 271.5 |
| 1/31/2004 | 261.0 | 266.3 |
| 2/1/2004 | 255.5 | 266.8 |
| 2/2/2004 | 234.9 | 259.9 |
| 2/3/2004 | 253.0 | 259.4 |
| 2/4/2004 | 254.3 | 261.9 |
| 2/5/2004 | 255.4 | 259.8 |
| 2/6/2004 | 256.2 | 259.3 |
| 2/7/2004 | 257.0 | 259.5 |
| 2/8/2004 | 257.0 | 262.0 |
| 2/9/2004 | 257.3 | 261.7 |
| 2/10/2004 | 252.1 | 260.8 |
| 2/11/2004 | 255.9 | 260.3 |
| 2/12/2004 | 254.2 | 261.4 |
| 2/13/2004 | 253.4 | 257.9 |
| 2/14/2004 | 253.1 | 259.3 |
| 2/15/2004 | 255.1 | 260.9 |
| 2/16/2004 | 254.6 | 264.2 |
| 2/17/2004 | 248.7 | 259.3 |
| 2/18/2004 | 247.4 | 261.4 |
| 2/19/2004 | 253.5 | 259.2 |
| 2/20/2004 | 255.4 | 260.4 |
| 2/21/2004 | 247.1 | 260.4 |
| 2/22/2004 | 248.7 | 260.9 |
| 2/23/2004 | 247.6 | 259.2 |
| 2/24/2004 | 251.3 | 256.5 |
| 2/25/2004 | 250.2 | 260.0 |
| 2/26/2004 | 245.1 | 257.9 |
| 2/27/2004 | 248.0 | 258.7 |
| 2/28/2004 | 247.9 | 257.5 |
| 2/29/2004 | 248.7 | 252.6 |
| 3/1/2004 | 246.9 | 250.4 |
| 3/2/2004 | 246.8 | 252.1 |
| 3/3/2004 | 247.3 | 252.6 |
| 3/4/2004 | 247.4 | 250.1 |
| 3/5/2004 | 248.2 | 254.6 |
| 3/6/2004 | 248.5 | 256.7 |
| 3/7/2004 | 247.9 | 257.9 |
| 3/8/2004 | 248.0 | 254.5 |
| 3/9/2004 | 249.0 | 258.7 |
| 3/10/2004 | 248.0 | 256.2 |
| 3/11/2004 | 245.1 | 255.4 |
| 3/12/2004 | 238.3 | 259.2 |
| 3/13/2004 | 251.3 | 259.5 |
| 3/14/2004 | 252.4 | 261.1 |
| 3/15/2004 | 253.4 | 258.4 |

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|-----------|-------|-------|
| 3/16/2004 | 253.2 | 262.8 |
| 3/17/2004 | 251.3 | 262.8 |
| 3/18/2004 | 250.9 | 258.4 |
| 3/19/2004 | 250.1 | 253.5 |
| 3/20/2004 | 250.9 | 259.3 |
| 3/21/2004 | 252.1 | 266.6 |
| 3/22/2004 | 252.4 | 264.8 |
| 3/23/2004 | 251.3 | 274.0 |
| 3/24/2004 | 258.6 | 289.5 |
| 3/25/2004 | 259.3 | 261.9 |
| 3/26/2004 | 259.5 | 261.9 |
| 3/27/2004 | 259.5 | 261.7 |
| 3/28/2004 | 259.5 | 261.7 |
| 3/29/2004 | 258.2 | 260.8 |
| 3/30/2004 | 246.0 | 260.8 |
| 3/31/2004 | 245.1 | 266.1 |
| 4/1/2004 | 259.3 | 265.9 |
| 4/2/2004 | 258.6 | 265.8 |
| 4/3/2004 | 245.5 | 264.1 |
| 4/4/2004 | 245.8 | 268.6 |
| 4/5/2004 | 247.3 | 268.9 |
| 4/6/2004 | 259.0 | 262.8 |
| 4/7/2004 | 259.3 | 262.2 |
| 4/8/2004 | 258.4 | 262.5 |
| 4/9/2004 | 258.6 | 261.9 |
| 4/10/2004 | 258.7 | 261.7 |
| 4/11/2004 | 253.4 | 261.7 |
| 4/12/2004 | 241.8 | 260.9 |
| 4/13/2004 | 244.6 | 266.6 |
| 4/14/2004 | 245.5 | 267.0 |
| 4/15/2004 | 257.5 | 261.2 |
| 4/16/2004 | 257.9 | 260.9 |
| 4/17/2004 | 257.9 | 260.6 |
| 4/18/2004 | 258.1 | 260.6 |
| 4/19/2004 | 258.2 | 260.6 |
| 4/20/2004 | 258.2 | 260.4 |
| 4/21/2004 | 258.4 | 261.1 |
| 4/22/2004 | 249.8 | 260.4 |
| 4/23/2004 | 249.0 | 253.8 |
| 4/24/2004 | 249.1 | 251.6 |
| 4/25/2004 | 249.0 | 251.8 |
| 4/26/2004 | 248.2 | 252.3 |
| 4/27/2004 | 247.3 | 257.1 |
| 4/28/2004 | 249.1 | 252.4 |
| 4/29/2004 | 249.6 | 251.8 |
| 4/30/2004 | 249.5 | 251.6 |
| 5/1/2004 | 249.0 | 251.6 |
| 5/2/2004 | 245.1 | 253.2 |
| 5/3/2004 | 241.0 | 257.6 |

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|-----------|-------|-------|
| 5/4/2004 | 249.3 | 255.6 |
| 5/5/2004 | 250.2 | 252.6 |
| 5/6/2004 | 250.2 | 252.6 |
| 5/7/2004 | 249.9 | 252.3 |
| 5/8/2004 | 250.1 | 252.6 |
| 5/9/2004 | 250.2 | 252.6 |
| 5/10/2004 | 250.2 | 252.6 |
| 5/11/2004 | 249.8 | 252.6 |
| 5/12/2004 | 250.2 | 252.4 |
| 5/13/2004 | 250.4 | 252.6 |
| 5/14/2004 | 250.4 | 252.4 |
| 5/15/2004 | 250.2 | 252.4 |
| 5/16/2004 | 250.1 | 252.3 |
| 5/17/2004 | 250.1 | 252.1 |
| 5/18/2004 | 250.1 | 252.1 |
| 5/19/2004 | 249.9 | 252.4 |
| 5/20/2004 | 250.2 | 252.3 |
| 5/21/2004 | 250.2 | 252.6 |
| 5/22/2004 | 250.1 | 252.3 |
| 5/23/2004 | 250.4 | 252.4 |
| 5/24/2004 | 250.1 | 252.4 |
| 5/25/2004 | 250.4 | 252.7 |
| 5/26/2004 | 250.5 | 252.6 |
| 5/27/2004 | 250.4 | 252.6 |
| 5/28/2004 | 250.7 | 252.1 |
| 5/29/2004 | 250.7 | 252.6 |
| 5/30/2004 | 250.7 | 252.6 |
| 5/31/2004 | 250.2 | 252.4 |
| 6/1/2004 | 250.4 | 252.4 |
| 6/2/2004 | 250.1 | 252.3 |
| 6/3/2004 | 250.4 | 252.4 |
| 6/4/2004 | 250.2 | 252.4 |
| 6/5/2004 | 250.2 | 252.4 |
| 6/6/2004 | 250.4 | 252.6 |
| 6/7/2004 | 250.4 | 252.6 |
| 6/8/2004 | 250.5 | 252.7 |
| 6/9/2004 | 250.7 | 252.6 |
| 6/10/2004 | 250.4 | 252.4 |
| 6/11/2004 | 250.4 | 252.6 |
| 6/12/2004 | 250.7 | 252.6 |
| 6/13/2004 | 250.5 | 295.2 |
| 6/14/2004 | 235.2 | 291.2 |
| 6/15/2004 | 250.4 | 252.4 |
| 6/16/2004 | 250.4 | 252.6 |
| 6/17/2004 | 250.1 | 252.6 |
| 6/18/2004 | 250.2 | 252.3 |
| 6/19/2004 | 250.2 | 252.4 |
| 6/20/2004 | 250.4 | 252.6 |
| 6/21/2004 | 250.4 | 252.3 |

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|-----------|-------|-------|
| 6/22/2004 | 250.5 | 252.4 |
| 6/23/2004 | 250.2 | 252.3 |
| 6/24/2004 | 250.4 | 260.0 |
| 6/25/2004 | 256.2 | 257.9 |
| 6/26/2004 | 256.0 | 258.1 |
| 6/27/2004 | 256.0 | 258.1 |
| 6/28/2004 | 256.0 | 258.1 |
| 6/29/2004 | 256.0 | 258.1 |
| 6/30/2004 | 256.0 | 257.9 |
| 7/1/2004 | 255.7 | 257.8 |
| 7/2/2004 | 255.9 | 257.8 |
| 7/3/2004 | 255.9 | 257.9 |
| 7/4/2004 | 255.9 | 258.1 |
| 7/5/2004 | 255.9 | 257.9 |
| 7/6/2004 | 255.9 | 257.9 |
| 7/7/2004 | 255.9 | 257.8 |
| 7/8/2004 | 255.9 | 257.6 |
| 7/9/2004 | 255.9 | 258.1 |
| 7/10/2004 | 256.0 | 258.2 |
| 7/11/2004 | 256.0 | 257.8 |
| 7/12/2004 | 231.4 | 306.5 |
| 7/13/2004 | 217.6 | 282.9 |
| 7/14/2004 | 252.3 | 254.3 |
| 7/15/2004 | 252.9 | 257.5 |
| 7/16/2004 | 255.9 | 257.6 |
| 7/17/2004 | 255.6 | 257.5 |
| 7/18/2004 | 255.6 | 257.5 |
| 7/19/2004 | 255.6 | 257.3 |
| 7/20/2004 | 255.3 | 257.3 |
| 7/21/2004 | 255.9 | 257.0 |
| 7/22/2004 | 255.1 | 257.1 |
| 7/23/2004 | 255.6 | 257.6 |
| 7/24/2004 | 255.6 | 257.3 |
| 7/25/2004 | 255.4 | 257.3 |
| 7/26/2004 | 255.6 | 257.5 |
| 7/27/2004 | 255.3 | 257.3 |
| 7/28/2004 | 255.4 | 257.3 |
| 7/29/2004 | 255.4 | 257.3 |
| 7/30/2004 | 255.6 | 257.3 |
| 7/31/2004 | 255.7 | 257.3 |
| 8/1/2004 | 255.1 | 257.5 |
| 8/2/2004 | 255.7 | 257.6 |
| 8/3/2004 | 255.3 | 256.7 |
| 8/4/2004 | 255.4 | 258.1 |
| 8/5/2004 | 256.0 | 258.2 |
| 8/6/2004 | 256.0 | 257.9 |
| 8/7/2004 | 255.9 | 258.2 |
| 8/8/2004 | 256.0 | 258.2 |
| 8/9/2004 | 256.0 | 258.1 |

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|-----------|-------|-------|
| 8/10/2004 | 255.7 | 257.9 |
| 8/11/2004 | 256.0 | 257.9 |
| 8/12/2004 | 255.9 | 257.9 |
| 8/13/2004 | 255.7 | 257.6 |
| 8/14/2004 | 255.6 | 257.8 |
| 8/15/2004 | 255.9 | 257.9 |
| 8/16/2004 | 255.7 | 257.9 |
| 8/17/2004 | 255.6 | 257.6 |
| 8/18/2004 | 255.4 | 257.6 |
| 8/19/2004 | 255.4 | 257.5 |
| 8/20/2004 | 255.7 | 257.5 |
| 8/21/2004 | 255.6 | 257.6 |
| 8/22/2004 | 255.4 | 257.6 |
| 8/23/2004 | 255.6 | 257.5 |
| 8/24/2004 | 255.7 | 257.6 |
| 8/25/2004 | 255.7 | 257.8 |
| 8/26/2004 | 255.9 | 257.6 |
| 8/27/2004 | 255.6 | 257.3 |
| 8/28/2004 | 255.6 | 257.6 |
| 8/29/2004 | 255.7 | 257.6 |
| 8/30/2004 | 255.9 | 257.8 |
| 8/31/2004 | 255.6 | 257.6 |
| 9/1/2004 | 255.6 | 257.6 |
| 9/2/2004 | 255.6 | 257.5 |
| 9/3/2004 | 255.6 | 257.3 |
| 9/4/2004 | 255.3 | 257.6 |
| 9/5/2004 | 255.6 | 257.5 |
| 9/6/2004 | 255.6 | 257.6 |
| 9/7/2004 | 256.0 | 258.1 |
| 9/8/2004 | 255.7 | 257.8 |
| 9/9/2004 | 255.9 | 257.8 |
| 9/10/2004 | 255.6 | 257.6 |
| 9/11/2004 | 255.1 | 257.1 |
| 9/12/2004 | 255.3 | 257.3 |
| 9/13/2004 | 255.1 | 257.1 |
| 9/14/2004 | 255.1 | 279.3 |
| 9/15/2004 | 257.0 | 279.1 |
| 9/16/2004 | 257.0 | 258.9 |
| 9/17/2004 | 256.8 | 258.9 |
| 9/18/2004 | 257.0 | 259.2 |
| 9/19/2004 | 257.0 | 278.4 |
| 9/20/2004 | 255.9 | 276.6 |
| 9/21/2004 | 268.9 | 281.0 |
| 9/22/2004 | 254.3 | 270.8 |
| 9/23/2004 | 253.8 | 255.9 |
| 9/24/2004 | 253.8 | 255.9 |
| 9/25/2004 | 253.8 | 255.9 |
| 9/26/2004 | 253.7 | 255.9 |
| 9/27/2004 | 253.8 | 255.7 |

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|------------|-------|-------|
| 9/28/2004 | 253.8 | 255.9 |
| 9/29/2004 | 254.0 | 256.2 |
| 9/30/2004 | 254.0 | 256.0 |
| 10/1/2004 | 253.8 | 255.7 |
| 10/2/2004 | 253.8 | 256.0 |
| 10/3/2004 | 253.8 | 256.0 |
| 10/4/2004 | 254.3 | 256.4 |
| 10/5/2004 | 253.8 | 256.4 |
| 10/6/2004 | 254.0 | 256.4 |
| 10/7/2004 | 254.5 | 256.5 |
| 10/8/2004 | 254.3 | 256.2 |
| 10/9/2004 | 253.8 | 255.9 |
| 10/10/2004 | 253.8 | 256.0 |
| 10/11/2004 | 254.0 | 256.0 |
| 10/12/2004 | 253.7 | 255.9 |
| 10/13/2004 | 254.0 | 256.0 |
| 10/14/2004 | 253.8 | 256.0 |
| 10/15/2004 | 253.5 | 255.6 |
| 10/16/2004 | 252.4 | 255.7 |
| 10/17/2004 | 253.1 | 255.6 |
| 10/18/2004 | 253.7 | 256.0 |
| 10/19/2004 | 254.3 | 256.0 |
| 10/20/2004 | 254.3 | 256.0 |
| 10/21/2004 | 254.3 | 256.0 |
| 10/21/2004 | 253.7 | 255.9 |
| 10/22/2004 | 253.7 | 255.9 |
| 10/23/2004 | 254.2 | 255.9 |
| 10/24/2004 | 254.2 | 256.4 |
| 10/25/2004 | 253.5 | 256.4 |
| 10/26/2004 | 254.2 | 256.2 |
| 10/27/2004 | 254.2 | 255.9 |
| 10/28/2004 | 254.2 | 256.0 |
| 10/29/2004 | 254.2 | 255.9 |
| 10/30/2004 | 254.2 | 256.0 |
| 10/31/2004 | 254.2 | 256.2 |
| 11/1/2004 | 254.5 | 256.4 |
| 11/2/2004 | 254.9 | 256.8 |
| 11/3/2004 | 253.8 | 256.8 |
| 11/4/2004 | 254.0 | 255.9 |
| 11/5/2004 | 252.9 | 256.0 |
| 11/6/2004 | 252.9 | 256.0 |
| 11/7/2004 | 254.0 | 256.4 |
| 11/8/2004 | 252.9 | 256.2 |
| 11/9/2004 | 252.1 | 257.8 |
| 11/10/2004 | 250.9 | 255.3 |
| 11/11/2004 | 252.4 | 255.7 |
| 11/12/2004 | 253.5 | 256.5 |
| 11/13/2004 | 251.8 | 256.4 |
| 11/14/2004 | 251.0 | 256.7 |

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|------------|-------|-------|
| 11/15/2004 | 253.8 | 319.0 |
| 11/16/2004 | 249.9 | 306.5 |
| 11/17/2004 | 249.6 | 271.3 |
| 11/18/2004 | 249.9 | 252.9 |
| 11/19/2004 | 250.9 | 252.9 |
| 11/20/2004 | 251.0 | 253.1 |
| 11/21/2004 | 250.7 | 252.9 |
| 11/22/2004 | 250.1 | 252.7 |
| 11/23/2004 | 249.9 | 252.9 |
| 11/24/2004 | 250.9 | 253.5 |
| 11/25/2004 | 250.5 | 254.6 |
| 11/26/2004 | 249.8 | 253.8 |
| 11/27/2004 | 248.8 | 251.5 |
| 11/28/2004 | 247.4 | 252.1 |
| 11/29/2004 | 245.7 | 254.3 |
| 11/30/2004 | 248.7 | 253.5 |
| 12/1/2004 | 248.2 | 258.1 |
| 12/2/2004 | 248.1 | 259.9 |
| 12/3/2004 | 250.2 | 260.4 |
| 12/4/2004 | 251.9 | 260.2 |
| 12/5/2004 | 249.8 | 258.3 |
| 12/6/2004 | 251.3 | 405.4 |
| 12/7/2004 | 259.0 | 260.8 |
| 12/8/2004 | 251.7 | 260.4 |
| 12/9/2004 | 250.5 | 253.9 |
| 12/9/2004 | 251.9 | 254.1 |
| 12/10/2004 | 250.3 | 254.1 |
| 12/11/2004 | 250.2 | 257.7 |
| 12/12/2004 | 252.4 | 256.6 |
| 12/13/2004 | 250.9 | 255.3 |
| 12/14/2004 | 250.2 | 265.4 |
| 12/15/2004 | 253.3 | 261.8 |
| 12/16/2004 | 249.4 | 257.7 |
| 12/17/2004 | 248.6 | 256.4 |
| 12/18/2004 | 249.2 | 255.8 |
| 12/19/2004 | 250.0 | 272.3 |
| 12/20/2004 | 259.6 | 272.3 |
| 12/21/2004 | 251.7 | 270.0 |
| 12/22/2004 | 253.1 | 267.1 |
| 12/23/2004 | 262.9 | 267.4 |
| 12/24/2004 | 262.4 | 291.8 |
| 12/25/2004 | 262.4 | 277.7 |
| 12/26/2004 | 262.1 | 266.3 |
| 12/27/2004 | 255.8 | 264.3 |
| 12/28/2004 | 255.7 | 260.8 |
| 12/29/2004 | 251.7 | 261.0 |
| 12/30/2004 | 250.8 | 253.8 |
| 12/31/2004 | 250.9 | 253.6 |
| 1/1/2005 | 251.9 | 253.8 |

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| | | |
|-----------|-------|-------|
| 1/2/2005 | 251.9 | 254.1 |
| 1/3/2005 | 252.2 | 254.1 |
| 1/4/2005 | 252.7 | 255.5 |
| 1/5/2005 | 253.1 | 255.2 |
| 1/6/2005 | 252.2 | 256.9 |
| 1/7/2005 | 252.7 | 257.7 |
| 1/8/2005 | 254.4 | 257.9 |
| 1/9/2005 | 250.9 | 257.7 |
| 1/10/2005 | 249.5 | 253.9 |
| 1/11/2005 | 251.3 | 254.1 |
| 1/12/2005 | 252.4 | 254.2 |
| 1/13/2005 | 251.6 | 254.2 |
| 1/14/2005 | 250.3 | 260.1 |
| 1/15/2005 | 253.6 | 260.1 |
| 1/16/2005 | 254.7 | 261.5 |
| 1/17/2005 | 252.7 | 285.5 |
| 1/18/2005 | 255.8 | 274.2 |
| 1/19/2005 | 256.3 | 262.7 |
| 1/20/2005 | 252.2 | 259.9 |
| 1/21/2005 | 252.2 | 259.9 |
| 1/22/2005 | 254.1 | 264.6 |
| 1/23/2005 | 259.9 | 267.1 |
| 1/24/2005 | 252.7 | 264.8 |
| 1/25/2005 | 252.5 | 262.1 |
| 1/26/2005 | 251.3 | 262.4 |
| 1/27/2005 | 231.9 | 262.4 |
| 1/28/2005 | 253.1 | 268.9 |
| 1/29/2005 | 255.2 | 258.6 |
| 1/30/2005 | 255.5 | 259.0 |
| 1/31/2005 | 255.0 | 260.2 |
| 2/1/2005 | 254.4 | 264.1 |
| 2/2/2005 | 253.3 | 261.9 |
| 2/3/2005 | 251.7 | 260.5 |
| 2/4/2005 | 250.6 | 261.9 |
| 2/5/2005 | 250.5 | 256.6 |
| 2/6/2005 | 250.9 | 255.2 |
| 2/7/2005 | 250.2 | 262.1 |
| 2/8/2005 | 250.2 | 252.8 |
| 2/9/2005 | 249.7 | 257.9 |
| 2/10/2005 | 250.8 | 257.4 |
| 2/11/2005 | 249.7 | 263.7 |
| 2/12/2005 | 248.0 | 257.4 |
| 2/13/2005 | 249.2 | 253.1 |
| 2/14/2005 | 250.2 | 253.5 |
| 2/15/2005 | 250.8 | 256.9 |
| 2/16/2005 | 250.3 | 254.2 |
| 2/17/2005 | 248.6 | 260.1 |
| 2/18/2005 | 250.2 | 256.0 |
| 2/19/2005 | 250.3 | 262.9 |

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|-----------|-------|-------|
| 2/20/2005 | 252.7 | 257.2 |
| 2/21/2005 | 250.8 | 257.5 |
| 2/22/2005 | 250.5 | 256.3 |
| 2/23/2005 | 253.3 | 262.1 |
| 2/24/2005 | 252.7 | 263.8 |
| 2/25/2005 | 252.0 | 261.9 |
| 2/26/2005 | 254.2 | 258.8 |
| 2/27/2005 | 253.0 | 258.8 |
| 2/28/2005 | 251.4 | 258.8 |
| 3/1/2005 | 249.8 | 262.1 |
| 3/2/2005 | 253.1 | 259.4 |
| 3/3/2005 | 252.8 | 264.8 |
| 3/4/2005 | 250.3 | 261.8 |
| 3/5/2005 | 250.5 | 255.8 |
| 3/6/2005 | 251.6 | 255.7 |
| 3/7/2005 | 251.6 | 256.3 |
| 3/8/2005 | 250.8 | 260.8 |
| 3/9/2005 | 250.3 | 263.0 |
| 3/10/2005 | 248.6 | 262.4 |
| 3/11/2005 | 253.1 | 261.8 |
| 3/12/2005 | 253.5 | 258.5 |
| 3/13/2005 | 251.4 | 258.6 |
| 3/14/2005 | 248.7 | 277.2 |
| 3/15/2005 | 252.4 | 259.0 |
| 3/16/2005 | 253.6 | 263.2 |
| 3/17/2005 | 252.7 | 259.4 |
| 3/18/2005 | 253.8 | 260.4 |
| 3/19/2005 | 250.3 | 256.9 |
| 3/20/2005 | 251.1 | 256.4 |
| 3/21/2005 | 252.5 | 262.7 |
| 3/22/2005 | 250.0 | 258.0 |
| 3/23/2005 | 251.4 | 257.1 |
| 3/24/2005 | 250.6 | 260.1 |
| 3/25/2005 | 250.0 | 253.9 |
| 3/26/2005 | 251.3 | 253.9 |
| 3/27/2005 | 250.5 | 253.6 |
| 3/28/2005 | 250.3 | 253.3 |
| 3/29/2005 | 249.5 | 261.5 |
| 3/30/2005 | 250.6 | 260.8 |
| 3/31/2005 | 232.4 | 258.0 |
| 4/1/2005 | 251.6 | 258.0 |
| 4/2/2005 | 251.3 | 256.1 |
| 4/3/2005 | 251.4 | 254.9 |
| 4/4/2005 | 251.7 | 257.1 |
| 4/5/2005 | 252.4 | 254.4 |
| 4/6/2005 | 252.4 | 254.4 |
| 4/7/2005 | 252.7 | 254.4 |
| 4/8/2005 | 252.5 | 254.4 |
| 4/9/2005 | 252.4 | 260.5 |

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|-----------|-------|-------|
| 4/10/2005 | 257.2 | 261.0 |
| 4/11/2005 | 256.8 | 259.0 |
| 4/12/2005 | 257.1 | 259.0 |
| 4/13/2005 | 256.3 | 258.8 |
| 4/14/2005 | 255.2 | 260.2 |
| 4/15/2005 | 255.2 | 258.2 |
| 4/16/2005 | 256.3 | 258.5 |
| 4/17/2005 | 256.4 | 258.6 |
| 4/18/2005 | 256.3 | 258.5 |
| 4/19/2005 | 256.4 | 258.6 |
| 4/20/2005 | 256.3 | 258.8 |
| 4/21/2005 | 256.6 | 258.5 |
| 4/22/2005 | 256.3 | 258.3 |
| 4/23/2005 | 254.6 | 258.3 |
| 4/24/2005 | 253.1 | 257.5 |
| 4/25/2005 | 254.2 | 258.0 |
| 4/26/2005 | 255.8 | 258.2 |
| 4/27/2005 | 254.1 | 257.4 |
| 4/28/2005 | 254.7 | 259.1 |
| 4/29/2005 | 249.7 | 257.5 |
| 4/30/2005 | 251.3 | 253.6 |
| 5/1/2005 | 250.2 | 253.8 |
| 5/2/2005 | 250.6 | 253.6 |
| 5/3/2005 | 248.6 | 259.3 |
| 5/4/2005 | 250.6 | 257.4 |
| 5/5/2005 | 252.7 | 256.9 |
| 5/6/2005 | 252.5 | 255.7 |
| 5/7/2005 | 252.2 | 254.4 |
| 5/8/2005 | 252.4 | 254.2 |
| 5/9/2005 | 252.2 | 254.2 |
| 5/10/2005 | 251.9 | 254.4 |
| 5/11/2005 | 252.0 | 254.1 |
| 5/12/2005 | 252.2 | 254.4 |
| 5/13/2005 | 252.5 | 254.4 |
| 5/14/2005 | 252.4 | 254.6 |
| 5/15/2005 | 252.4 | 254.4 |
| 5/16/2005 | 251.7 | 254.1 |
| 5/17/2005 | 251.6 | 253.9 |
| 5/18/2005 | 251.9 | 254.1 |
| 5/19/2005 | 251.7 | 253.8 |
| 5/20/2005 | 252.2 | 254.1 |
| 5/21/2005 | 251.9 | 254.2 |
| 5/22/2005 | 252.2 | 254.2 |
| 5/23/2005 | 252.4 | 254.4 |
| 5/24/2005 | 252.2 | 254.1 |
| 5/25/2005 | 252.4 | 254.2 |
| 5/26/2005 | 252.2 | 254.1 |
| 5/27/2005 | 252.2 | 254.1 |
| 5/28/2005 | 252.0 | 254.1 |

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| | | |
|-----------|-------|-------|
| 5/29/2005 | 252.2 | 254.1 |
| 5/30/2005 | 252.4 | 254.4 |
| 5/31/2005 | 252.0 | 254.1 |
| 6/1/2005 | 252.0 | 253.8 |
| 6/2/2005 | 252.0 | 253.8 |
| 6/3/2005 | 252.4 | 254.1 |
| 6/4/2005 | 251.9 | 253.8 |
| 6/5/2005 | 251.9 | 253.9 |
| 6/6/2005 | 252.0 | 254.6 |
| 6/7/2005 | 251.9 | 253.9 |
| 6/8/2005 | 127.5 | 303.8 |
| 6/9/2005 | 124.7 | 274.3 |
| 6/10/2005 | 252.0 | 253.8 |
| 6/11/2005 | 251.9 | 254.1 |
| 6/12/2005 | 252.2 | 254.1 |
| 6/13/2005 | 251.9 | 253.9 |
| 6/14/2005 | 251.9 | 254.1 |
| 6/15/2005 | 252.2 | 254.7 |
| 6/16/2005 | 252.2 | 254.9 |
| 6/17/2005 | 251.7 | 254.1 |
| 6/18/2005 | 251.9 | 253.9 |
| 6/19/2005 | 252.0 | 254.1 |
| 6/20/2005 | 252.0 | 254.2 |
| 6/21/2005 | 252.4 | 254.5 |
| 6/22/2005 | 154.8 | 254.5 |
| 6/23/2005 | 153.5 | 255.2 |
| 6/24/2005 | 252.5 | 255.3 |
| 6/25/2005 | 253.0 | 255.2 |
| 6/26/2005 | 151.0 | 255.2 |
| 6/27/2005 | 134.6 | 181.3 |
| 6/28/2005 | 182.4 | 255.2 |
| 6/29/2005 | 253.1 | 255.3 |
| 6/30/2005 | 253.5 | 255.6 |
| 7/1/2005 | 253.6 | 256.1 |
| 7/2/2005 | 253.5 | 256.0 |
| 7/3/2005 | 253.1 | 255.6 |
| 7/4/2005 | 253.3 | 255.5 |
| 7/5/2005 | 253.3 | 255.5 |
| 7/6/2005 | 253.3 | 255.5 |
| 7/7/2005 | 253.1 | 255.6 |
| 7/8/2005 | 253.0 | 255.3 |
| 7/9/2005 | 253.0 | 255.3 |
| 7/10/2005 | 253.3 | 255.5 |
| 7/11/2005 | 253.5 | 255.3 |
| 7/12/2005 | 253.3 | 255.3 |
| 7/13/2005 | 253.6 | 255.2 |
| 7/14/2005 | 253.1 | 255.2 |
| 7/15/2005 | 253.0 | 255.0 |
| 7/16/2005 | 253.5 | 255.2 |

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| | | |
|-----------|-------|-------|
| 7/17/2005 | 253.3 | 255.5 |
| 7/18/2005 | 253.3 | 255.3 |
| 7/19/2005 | 253.5 | 255.8 |
| 7/20/2005 | 253.3 | 255.8 |
| 7/21/2005 | 253.8 | 255.8 |
| 7/22/2005 | 253.9 | 256.0 |
| 7/23/2005 | 253.8 | 256.0 |
| 7/24/2005 | 253.8 | 256.0 |
| 7/25/2005 | 253.6 | 256.0 |
| 7/26/2005 | 253.5 | 255.8 |
| 7/27/2005 | 253.9 | 255.8 |
| 7/28/2005 | 253.5 | 256.1 |
| 7/29/2005 | 253.5 | 256.0 |
| 7/30/2005 | 253.3 | 256.0 |
| 7/31/2005 | 253.0 | 255.6 |
| 8/1/2005 | 253.5 | 255.5 |
| 8/2/2005 | 253.5 | 255.8 |
| 8/3/2005 | 253.5 | 255.8 |
| 8/4/2005 | 247.2 | 255.6 |
| 8/5/2005 | 254.5 | 255.5 |
| 8/6/2005 | 254.4 | 255.6 |
| 8/7/2005 | 254.4 | 255.5 |
| 8/8/2005 | 254.2 | 255.5 |
| 8/9/2005 | 253.9 | 255.5 |
| 8/10/2005 | 253.9 | 255.3 |
| 8/11/2005 | 253.8 | 255.3 |
| 8/12/2005 | 253.9 | 255.0 |
| 8/13/2005 | 253.9 | 255.0 |
| 8/14/2005 | 253.9 | 255.0 |
| 8/15/2005 | 253.9 | 255.0 |
| 8/16/2005 | 254.1 | 254.9 |
| 8/17/2005 | 253.8 | 254.9 |
| 8/18/2005 | 253.8 | 255.0 |
| 8/19/2005 | 253.9 | 255.2 |
| 8/20/2005 | 253.8 | 255.0 |
| 8/21/2005 | 253.9 | 255.0 |
| 8/22/2005 | 253.9 | 255.0 |
| 8/23/2005 | 254.1 | 255.0 |
| 8/24/2005 | 253.8 | 255.2 |
| 8/25/2005 | 253.9 | 255.0 |
| 8/26/2005 | 253.8 | 255.2 |
| 8/27/2005 | 253.8 | 254.9 |
| 8/28/2005 | 252.8 | 256.0 |
| 8/29/2005 | 254.2 | 255.2 |
| 8/30/2005 | 254.2 | 255.2 |
| 8/31/2005 | 254.1 | 255.2 |
| 9/1/2005 | 253.8 | 255.2 |
| 9/2/2005 | 253.8 | 254.9 |
| 9/3/2005 | 253.9 | 255.0 |

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|------------|-------|-------|
| 9/4/2005 | 253.8 | 255.0 |
| 9/5/2005 | 253.9 | 255.2 |
| 9/6/2005 | 253.6 | 254.9 |
| 9/7/2005 | 253.8 | 255.2 |
| 9/8/2005 | 254.1 | 255.2 |
| 9/9/2005 | 253.8 | 255.3 |
| 9/10/2005 | 253.8 | 255.0 |
| 9/11/2005 | 253.9 | 255.0 |
| 9/12/2005 | 253.1 | 255.2 |
| 9/13/2005 | 253.3 | 254.6 |
| 9/14/2005 | 253.3 | 254.4 |
| 9/15/2005 | 253.5 | 254.6 |
| 9/16/2005 | 253.5 | 254.6 |
| 9/17/2005 | 253.6 | 254.6 |
| 9/18/2005 | 253.6 | 254.7 |
| 9/19/2005 | 253.1 | 254.7 |
| 9/20/2005 | 253.3 | 254.2 |
| 9/21/2005 | 252.8 | 254.6 |
| 9/22/2005 | 253.0 | 254.2 |
| 9/23/2005 | 253.1 | 254.4 |
| 9/24/2005 | 253.1 | 254.6 |
| 9/25/2005 | 253.3 | 254.4 |
| 9/26/2005 | 253.3 | 254.4 |
| 9/27/2005 | 253.5 | 254.6 |
| 9/28/2005 | 253.1 | 254.6 |
| 9/29/2005 | 253.1 | 254.7 |
| 9/30/2005 | 253.5 | 254.7 |
| 10/1/2005 | 253.1 | 254.6 |
| 10/2/2005 | 253.3 | 254.7 |
| 10/3/2005 | 253.1 | 267.6 |
| 10/4/2005 | 254.1 | 280.4 |
| 10/5/2005 | 268.5 | 269.8 |
| 10/6/2005 | 268.5 | 269.8 |
| 10/7/2005 | 253.5 | 274.5 |
| 10/8/2005 | 253.3 | 254.4 |
| 10/9/2005 | 253.3 | 254.4 |
| 10/10/2005 | 253.1 | 254.2 |
| 10/11/2005 | 253.1 | 254.6 |
| 10/12/2005 | 252.8 | 254.6 |
| 10/13/2005 | 253.3 | 254.4 |
| 10/14/2005 | 253.3 | 260.8 |
| 10/15/2005 | 253.1 | 255.5 |
| 10/16/2005 | 253.0 | 254.4 |
| 10/17/2005 | 253.0 | 254.4 |
| 10/18/2005 | 251.6 | 262.7 |
| 10/19/2005 | 252.5 | 253.6 |
| 10/20/2005 | 252.7 | 253.9 |
| 10/21/2005 | 252.8 | 254.2 |
| 10/22/2005 | 252.5 | 253.8 |

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|------------|-------|-------|
| 10/23/2005 | 251.9 | 253.8 |
| 10/24/2005 | 249.7 | 252.7 |
| 10/25/2005 | 250.5 | 257.8 |
| 10/26/2005 | 223.5 | 258.3 |
| 10/27/2005 | 125.7 | 223.6 |
| 10/28/2005 | 197.0 | 261.5 |
| 10/29/2005 | 256.7 | 261.6 |
| 10/30/2005 | 256.0 | 259.1 |
| 10/31/2005 | 256.9 | 259.4 |
| 11/1/2005 | 257.7 | 259.6 |
| 11/2/2005 | 256.0 | 259.4 |
| 11/3/2005 | 256.0 | 259.4 |
| 11/4/2005 | 255.7 | 257.5 |
| 11/5/2005 | 232.4 | 256.4 |
| 11/6/2005 | 218.3 | 256.9 |
| 11/7/2005 | 249.4 | 255.3 |
| 11/8/2005 | 251.7 | 256.4 |
| 11/9/2005 | 250.8 | 253.1 |
| 11/10/2005 | 250.6 | 252.8 |
| 11/11/2005 | 250.0 | 255.7 |
| 11/12/2005 | 249.4 | 252.0 |
| 11/13/2005 | 250.6 | 251.6 |
| 11/14/2005 | 250.5 | 254.1 |
| 11/15/2005 | 250.3 | 251.7 |
| 11/16/2005 | 250.0 | 254.6 |
| 11/17/2005 | 251.7 | 259.6 |
| 11/18/2005 | 254.4 | 260.5 |
| 11/19/2005 | 250.5 | 266.2 |
| 11/20/2005 | 235.6 | 255.2 |
| 11/21/2005 | 250.5 | 263.7 |
| 11/22/2005 | 249.2 | 258.8 |
| 11/23/2005 | 250.9 | 258.3 |
| 11/24/2005 | 249.1 | 255.2 |
| 11/25/2005 | 252.2 | 259.4 |
| 11/26/2005 | 256.4 | 261.9 |
| 11/27/2005 | 255.3 | 262.2 |
| 11/28/2005 | 255.3 | 257.7 |
| 11/29/2005 | 253.0 | 256.0 |
| 11/30/2005 | 251.4 | 257.9 |
| 12/1/2005 | 254.1 | 260.5 |
| 12/2/2005 | 253.1 | 273.7 |
| 12/3/2005 | 254.9 | 258.0 |
| 12/4/2005 | 255.8 | 258.0 |
| 12/5/2005 | 255.8 | 259.7 |
| 12/6/2005 | 257.9 | 264.0 |
| 12/7/2005 | 255.7 | 264.1 |
| 12/8/2005 | 254.7 | 263.0 |
| 12/9/2005 | 258.2 | 262.7 |
| 12/10/2005 | 256.1 | 263.0 |

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|------------|-------|-------|
| 12/11/2005 | 255.8 | 257.7 |
| 12/12/2005 | 254.7 | 257.7 |
| 12/13/2005 | 254.2 | 261.5 |
| 12/14/2005 | 254.2 | 257.9 |
| 12/15/2005 | 253.8 | 256.1 |
| 12/16/2005 | 251.7 | 257.9 |
| 12/17/2005 | 245.1 | 259.4 |
| 12/18/2005 | 252.7 | 259.6 |
| 12/19/2005 | 253.5 | 265.7 |
| 12/20/2005 | 254.9 | 265.2 |
| 12/21/2005 | 256.1 | 262.4 |
| 12/22/2005 | 252.2 | 265.5 |
| 12/23/2005 | 251.9 | 257.9 |
| 12/24/2005 | 252.4 | 255.2 |
| 12/25/2005 | 253.5 | 255.3 |
| 12/26/2005 | 251.9 | 255.3 |
| 12/27/2005 | 251.6 | 255.5 |
| 12/28/2005 | 252.4 | 258.6 |
| 12/29/2005 | 255.5 | 258.2 |
| 12/30/2005 | 254.7 | 257.4 |
| 12/31/2005 | 252.5 | 256.0 |
| 1/1/2006 | 245.1 | 257.4 |
| 1/2/2006 | 252.8 | 254.2 |
| 1/3/2006 | 251.4 | 254.1 |
| 1/4/2006 | 243.7 | 264.1 |
| 1/5/2006 | 250.6 | 255.2 |
| 1/6/2006 | 253.8 | 258.6 |
| 1/7/2006 | 247.6 | 256.0 |
| 1/8/2006 | 244.8 | 256.9 |
| 1/9/2006 | 252.0 | 261.6 |
| 1/10/2006 | 246.7 | 257.4 |
| 1/11/2006 | 250.9 | 260.8 |
| 1/12/2006 | 251.9 | 257.2 |
| 1/13/2006 | 250.5 | 253.0 |
| 1/14/2006 | 245.0 | 265.7 |
| 1/15/2006 | 250.6 | 259.3 |
| 1/16/2006 | 252.8 | 260.4 |
| 1/17/2006 | 251.3 | 260.8 |
| 1/18/2006 | 247.6 | 265.7 |
| 1/19/2006 | 253.9 | 261.8 |
| 1/20/2006 | 252.4 | 264.3 |
| 1/21/2006 | 251.9 | 254.7 |
| 1/22/2006 | 249.4 | 254.9 |
| 1/23/2006 | 249.5 | 263.8 |
| 1/24/2006 | 251.3 | 263.5 |
| 1/25/2006 | 253.1 | 261.0 |
| 1/26/2006 | 253.0 | 262.1 |
| 1/27/2006 | 254.2 | 261.9 |
| 1/28/2006 | 252.7 | 255.8 |

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|-----------|-------|-------|
| 1/29/2006 | 251.9 | 253.3 |
| 1/30/2006 | 245.1 | 262.2 |
| 1/31/2006 | 256.8 | 263.5 |
| 2/1/2006 | 256.0 | 263.7 |
| 2/2/2006 | 254.9 | 259.3 |
| 2/3/2006 | 253.1 | 256.1 |
| 2/4/2006 | 253.8 | 256.8 |
| 2/5/2006 | 253.9 | 260.7 |
| 2/6/2006 | 254.1 | 264.0 |
| 2/7/2006 | 252.4 | 260.1 |
| 2/8/2006 | 251.1 | 262.4 |
| 2/9/2006 | 252.8 | 261.0 |
| 2/10/2006 | 253.9 | 266.0 |
| 2/11/2006 | 252.2 | 255.7 |
| 2/12/2006 | 248.6 | 257.2 |
| 2/13/2006 | 255.7 | 264.3 |
| 2/14/2006 | 252.2 | 264.4 |
| 2/15/2006 | 251.1 | 264.0 |
| 2/16/2006 | 252.2 | 253.9 |
| 2/17/2006 | 252.5 | 262.9 |
| 2/18/2006 | 255.5 | 267.4 |
| 2/19/2006 | 245.9 | 264.9 |
| 2/20/2006 | 251.9 | 260.8 |
| 2/21/2006 | 252.0 | 263.5 |
| 2/22/2006 | 248.0 | 258.6 |
| 2/23/2006 | 252.2 | 263.7 |
| 2/24/2006 | 251.6 | 261.9 |
| 2/25/2006 | 253.5 | 255.8 |
| 2/26/2006 | 251.4 | 261.5 |
| 2/27/2006 | 252.8 | 261.8 |
| 2/28/2006 | 252.5 | 276.7 |
| 3/1/2006 | 252.5 | 262.9 |
| 3/2/2006 | 252.2 | 255.0 |
| 3/3/2006 | 251.4 | 264.3 |
| 3/4/2006 | 251.7 | 259.3 |
| 3/5/2006 | 251.4 | 258.2 |
| 3/6/2006 | 251.1 | 256.1 |
| 3/7/2006 | 253.1 | 265.7 |
| 3/8/2006 | 252.8 | 258.0 |
| 3/9/2006 | 252.4 | 254.2 |
| 3/10/2006 | 251.3 | 253.5 |
| 3/11/2006 | 252.2 | 257.9 |
| 3/12/2006 | 252.7 | 253.8 |
| 3/13/2006 | 252.7 | 253.9 |
| 3/14/2006 | 241.2 | 258.3 |
| 3/15/2006 | 252.2 | 264.3 |
| 3/16/2006 | 251.9 | 258.5 |
| 3/17/2006 | 251.4 | 256.0 |
| 3/18/2006 | 250.8 | 262.2 |

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|-----------|-------|-------|
| 3/19/2006 | 244.8 | 265.7 |
| 3/20/2006 | 251.3 | 258.5 |
| 3/21/2006 | 251.9 | 264.4 |
| 3/22/2006 | 253.9 | 297.3 |
| 3/23/2006 | 252.0 | 271.4 |
| 3/24/2006 | 251.9 | 261.8 |
| 3/25/2006 | 250.3 | 255.8 |
| 3/26/2006 | 245.0 | 258.6 |
| 3/27/2006 | 248.9 | 266.5 |
| 3/28/2006 | 251.1 | 253.6 |
| 3/29/2006 | 249.4 | 259.6 |
| 3/30/2006 | 252.4 | 257.7 |
| 3/31/2006 | 253.0 | 255.3 |
| 4/1/2006 | 252.7 | 253.9 |
| 4/2/2006 | 251.9 | 253.9 |
| 4/3/2006 | 251.3 | 253.9 |
| 4/4/2006 | 251.4 | 261.9 |
| 4/5/2006 | 249.1 | 254.6 |
| 4/6/2006 | 252.0 | 253.9 |
| 4/7/2006 | 252.5 | 254.1 |
| 4/8/2006 | 252.0 | 254.4 |
| 4/9/2006 | 244.3 | 256.8 |
| 4/10/2006 | 251.1 | 258.2 |
| 4/11/2006 | 253.1 | 255.2 |
| 4/12/2006 | 253.6 | 255.2 |
| 4/13/2006 | 253.8 | 255.2 |
| 4/14/2006 | 253.8 | 255.3 |
| 4/15/2006 | 252.5 | 255.0 |
| 4/16/2006 | 252.2 | 253.8 |
| 4/17/2006 | 252.4 | 253.6 |
| 4/18/2006 | 252.4 | 253.9 |
| 4/19/2006 | 252.5 | 253.9 |
| 4/20/2006 | 252.5 | 273.4 |
| 4/21/2006 | 251.6 | 290.2 |
| 4/22/2006 | 252.0 | 253.3 |
| 4/23/2006 | 252.2 | 253.6 |
| 4/24/2006 | 252.4 | 253.6 |
| 4/25/2006 | 252.5 | 253.9 |
| 4/26/2006 | 251.9 | 265.4 |
| 4/27/2006 | 251.9 | 253.8 |
| 4/28/2006 | 0.0 | 253.9 |
| 4/29/2006 | 252.2 | 253.6 |
| 4/30/2006 | 252.2 | 253.5 |
| 5/1/2006 | 251.7 | 253.9 |
| 5/2/2006 | 252.0 | 254.6 |
| 5/3/2006 | 252.4 | 254.7 |
| 5/4/2006 | 252.2 | 255.8 |
| 5/5/2006 | 252.4 | 253.6 |
| 5/6/2006 | 252.0 | 253.6 |

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|-----------|-------|-------|
| 5/7/2006 | 252.4 | 253.8 |
| 5/8/2006 | 251.9 | 253.6 |
| 5/9/2006 | 250.9 | 253.8 |
| 5/10/2006 | 252.4 | 253.6 |
| 5/11/2006 | 252.2 | 262.4 |
| 5/12/2006 | 251.7 | 253.3 |
| 5/13/2006 | 252.0 | 253.1 |
| 5/14/2006 | 251.7 | 253.3 |
| 5/15/2006 | 251.7 | 259.3 |
| 5/16/2006 | 251.7 | 258.6 |
| 5/17/2006 | 252.0 | 253.6 |
| 5/18/2006 | 252.4 | 253.8 |
| 5/19/2006 | 251.4 | 253.5 |
| 5/20/2006 | 252.4 | 253.9 |
| 5/21/2006 | 252.2 | 253.8 |
| 5/22/2006 | 252.2 | 253.8 |
| 5/23/2006 | 252.2 | 253.5 |
| 5/24/2006 | 252.2 | 253.6 |
| 5/25/2006 | 252.5 | 253.8 |
| 5/26/2006 | 252.4 | 253.6 |
| 5/27/2006 | 252.5 | 253.8 |
| 5/28/2006 | 252.5 | 253.8 |
| 5/29/2006 | 252.4 | 253.8 |
| 5/30/2006 | 252.2 | 253.9 |
| 5/31/2006 | 252.5 | 253.8 |
| 6/1/2006 | 252.5 | 253.9 |
| 6/2/2006 | 252.5 | 253.6 |
| 6/3/2006 | 252.2 | 253.6 |
| 6/4/2006 | 252.4 | 253.8 |
| 6/5/2006 | 252.2 | 253.6 |
| 6/6/2006 | 252.4 | 253.6 |
| 6/7/2006 | 252.2 | 253.8 |
| 6/8/2006 | 252.4 | 253.6 |
| 6/9/2006 | 252.4 | 253.6 |
| 6/10/2006 | 252.4 | 253.6 |
| 6/11/2006 | 252.4 | 253.6 |
| 6/12/2006 | 252.4 | 253.6 |
| 6/13/2006 | 252.4 | 253.6 |
| 6/14/2006 | 252.4 | 253.6 |
| 6/15/2006 | 252.4 | 253.6 |
| 6/16/2006 | 252.4 | 253.6 |
| 6/17/2006 | 252.5 | 253.9 |
| 6/18/2006 | 252.5 | 253.9 |
| 6/19/2006 | 252.4 | 253.6 |
| 6/20/2006 | 252.2 | 253.8 |
| 6/21/2006 | 251.9 | 253.9 |
| 6/22/2006 | 252.2 | 253.6 |
| 6/23/2006 | 252.8 | 253.8 |
| 6/24/2006 | 252.8 | 254.1 |

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|-----------|-------|-------|
| 6/25/2006 | 252.7 | 253.9 |
| 6/26/2006 | 252.7 | 253.8 |
| 6/27/2006 | 252.7 | 254.2 |
| 6/28/2006 | 248.4 | 253.0 |
| 6/29/2006 | 248.3 | 249.7 |
| 6/30/2006 | 248.6 | 249.7 |
| 7/1/2006 | 248.4 | 249.8 |
| 7/2/2006 | 248.4 | 249.8 |
| 7/3/2006 | 248.1 | 249.7 |
| 7/4/2006 | 248.1 | 249.5 |
| 7/5/2006 | 248.6 | 249.7 |
| 7/6/2006 | 248.6 | 249.8 |
| 7/7/2006 | 248.4 | 249.4 |
| 7/8/2006 | 248.4 | 249.7 |
| 7/9/2006 | 248.1 | 249.8 |
| 7/10/2006 | 248.1 | 249.7 |
| 7/11/2006 | 248.4 | 249.5 |
| 7/12/2006 | 248.6 | 250.0 |
| 7/13/2006 | 248.3 | 249.8 |
| 7/14/2006 | 248.6 | 250.0 |
| 7/15/2006 | 248.6 | 250.0 |
| 7/16/2006 | 248.4 | 249.8 |
| 7/17/2006 | 248.6 | 249.8 |
| 7/18/2006 | 248.6 | 250.0 |
| 7/19/2006 | 248.3 | 249.8 |
| 7/20/2006 | 248.1 | 249.7 |
| 7/21/2006 | 248.6 | 249.7 |
| 7/22/2006 | 248.4 | 250.3 |
| 7/23/2006 | 248.3 | 250.0 |
| 7/24/2006 | 248.3 | 249.7 |
| 7/25/2006 | 247.8 | 250.2 |
| 7/26/2006 | 248.0 | 249.8 |
| 7/27/2006 | 248.1 | 249.7 |
| 7/28/2006 | 248.4 | 250.2 |
| 7/29/2006 | 248.0 | 249.5 |
| 7/30/2006 | 248.1 | 249.7 |
| 7/31/2006 | 248.7 | 257.1 |
| 8/1/2006 | 250.6 | 262.7 |
| 8/2/2006 | 252.4 | 260.7 |
| 8/3/2006 | 252.4 | 254.1 |
| 8/4/2006 | 252.4 | 253.9 |
| 8/5/2006 | 252.2 | 253.8 |
| 8/6/2006 | 252.0 | 254.1 |
| 8/7/2006 | 252.0 | 253.6 |
| 8/8/2006 | 252.5 | 253.6 |
| 8/9/2006 | 252.5 | 253.8 |
| 8/10/2006 | 252.5 | 253.5 |
| 8/11/2006 | 253.0 | 253.9 |
| 8/12/2006 | 252.8 | 254.1 |

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|-----------|-------|-------|
| 8/13/2006 | 252.0 | 254.1 |
| 8/14/2006 | 252.5 | 253.6 |
| 8/15/2006 | 252.5 | 253.8 |
| 8/16/2006 | 252.4 | 253.8 |
| 8/17/2006 | 252.2 | 253.6 |
| 8/18/2006 | 252.4 | 253.6 |
| 8/19/2006 | 252.2 | 253.8 |
| 8/20/2006 | 252.2 | 253.5 |
| 8/21/2006 | 251.7 | 253.5 |
| 8/22/2006 | 252.4 | 253.6 |
| 8/23/2006 | 252.0 | 253.8 |
| 8/24/2006 | 150.4 | 354.0 |
| 8/25/2006 | 216.9 | 312.3 |
| 8/26/2006 | 149.0 | 216.9 |
| 8/27/2006 | 149.2 | 346.4 |
| 8/28/2006 | 183.9 | 282.3 |
| 8/29/2006 | 158.4 | 346.0 |
| 8/30/2006 | 0.0 | 393.8 |
| 8/31/2006 | 212.8 | 338.7 |
| 9/1/2006 | 256.4 | 257.5 |
| 9/2/2006 | 256.6 | 257.9 |
| 9/3/2006 | 256.3 | 257.5 |
| 9/4/2006 | 256.3 | 257.7 |
| 9/5/2006 | 250.2 | 257.4 |
| 9/6/2006 | 252.3 | 253.4 |
| 9/7/2006 | 252.3 | 253.5 |
| 9/8/2006 | 252.0 | 253.5 |
| 9/9/2006 | 250.4 | 253.4 |
| 9/10/2006 | 250.5 | 252.6 |
| 9/11/2006 | 251.5 | 252.7 |
| 9/12/2006 | 251.5 | 252.7 |
| 9/13/2006 | 251.3 | 253.2 |
| 9/14/2006 | 252.0 | 253.2 |
| 9/15/2006 | 164.4 | 261.7 |
| 9/16/2006 | 257.0 | 259.2 |
| 9/17/2006 | 257.9 | 259.2 |
| 9/18/2006 | 255.4 | 259.3 |
| 9/19/2006 | 250.2 | 256.4 |
| 9/20/2006 | 248.7 | 251.2 |
| 9/21/2006 | 250.7 | 258.1 |
| 9/22/2006 | 254.3 | 255.4 |
| 9/23/2006 | 254.2 | 306.1 |
| 9/24/2006 | 254.6 | 285.1 |
| 9/25/2006 | 237.1 | 303.6 |
| 9/26/2006 | 230.6 | 328.8 |
| 9/27/2006 | 215.7 | 330.9 |
| 9/28/2006 | 241.1 | 320.5 |
| 9/29/2006 | 240.5 | 320.7 |
| 9/30/2006 | 257.8 | 258.9 |

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|------------|-------|-------|
| 10/1/2006 | 258.1 | 259.5 |
| 10/2/2006 | 258.4 | 259.6 |
| 10/3/2006 | 252.0 | 264.4 |
| 10/4/2006 | 253.4 | 254.8 |
| 10/5/2006 | 253.8 | 254.9 |
| 10/6/2006 | 252.6 | 255.3 |
| 10/7/2006 | 252.4 | 253.8 |
| 10/8/2006 | 252.7 | 254.0 |
| 10/9/2006 | 253.1 | 259.6 |
| 10/10/2006 | 253.7 | 255.4 |
| 10/11/2006 | 253.2 | 254.5 |
| 10/12/2006 | 251.8 | 254.2 |
| 10/13/2006 | 250.7 | 254.0 |
| 10/14/2006 | 252.3 | 255.9 |
| 10/15/2006 | 252.4 | 257.6 |
| 10/16/2006 | 253.5 | 258.2 |
| 10/17/2006 | 254.6 | 256.8 |
| 10/18/2006 | 255.1 | 256.8 |
| 10/19/2006 | 252.7 | 256.5 |
| 10/20/2006 | 251.6 | 255.1 |
| 10/21/2006 | 252.3 | 256.5 |
| 10/22/2006 | 253.8 | 257.3 |
| 10/23/2006 | 253.1 | 255.7 |
| 10/24/2006 | 251.5 | 261.1 |
| 10/25/2006 | 252.0 | 257.1 |
| 10/26/2006 | 251.3 | 258.9 |
| 10/27/2006 | 251.8 | 256.0 |
| 10/28/2006 | 251.2 | 253.1 |
| 10/29/2006 | 250.5 | 253.5 |
| 10/30/2006 | 251.0 | 254.8 |
| 10/31/2006 | 253.5 | 254.8 |
| 11/1/2006 | 252.0 | 254.5 |
| 11/2/2006 | 242.5 | 265.0 |
| 11/3/2006 | 252.9 | 260.9 |
| 11/4/2006 | 255.6 | 258.9 |
| 11/5/2006 | 253.8 | 257.3 |
| 11/6/2006 | 254.6 | 258.7 |
| 11/7/2006 | 252.4 | 258.9 |
| 11/8/2006 | 252.4 | 254.3 |
| 11/9/2006 | 251.2 | 254.3 |
| 11/10/2006 | 252.1 | 254.3 |
| 11/11/2006 | 251.2 | 253.8 |
| 11/12/2006 | 250.9 | 256.7 |
| 11/13/2006 | 252.3 | 261.7 |
| 11/14/2006 | 251.3 | 261.7 |
| 11/15/2006 | 251.3 | 253.7 |
| 11/16/2006 | 252.0 | 253.7 |
| 11/17/2006 | 246.2 | 257.5 |
| 11/18/2006 | 251.3 | 256.7 |

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| | | |
|------------|-------|-------|
| 11/19/2006 | 250.2 | 256.0 |
| 11/20/2006 | 251.5 | 259.3 |
| 11/21/2006 | 249.5 | 266.1 |
| 11/22/2006 | 251.0 | 266.9 |
| 11/23/2006 | 251.2 | 256.7 |
| 11/24/2006 | 251.2 | 254.5 |
| 11/25/2006 | 250.9 | 254.3 |
| 11/26/2006 | 250.9 | 253.4 |
| 11/27/2006 | 251.3 | 263.3 |
| 11/28/2006 | 251.0 | 253.8 |
| 11/29/2006 | 252.7 | 254.3 |
| 11/30/2006 | 253.1 | 254.6 |
| 12/1/2006 | 252.3 | 258.6 |
| 12/2/2006 | 254.0 | 259.0 |
| 12/3/2006 | 251.8 | 259.6 |
| 12/4/2006 | 252.7 | 275.3 |
| 12/5/2006 | 154.8 | 267.2 |
| 12/6/2006 | 81.9 | 273.3 |
| 12/7/2006 | 245.8 | 261.5 |
| 12/8/2006 | 251.6 | 261.2 |
| 12/9/2006 | 248.8 | 257.9 |
| 12/10/2006 | 251.3 | 255.6 |
| 12/11/2006 | 252.4 | 255.9 |
| 12/12/2006 | 253.2 | 255.6 |
| 12/13/2006 | 252.6 | 255.3 |
| 12/14/2006 | 251.8 | 255.6 |
| 12/15/2006 | 252.4 | 254.9 |
| 12/16/2006 | 252.3 | 255.6 |
| 12/17/2006 | 177.6 | 259.2 |
| 12/18/2006 | 159.6 | 266.7 |
| 12/19/2006 | 248.0 | 253.4 |
| 12/20/2006 | 251.0 | 256.4 |
| 12/21/2006 | 251.2 | 253.4 |
| 12/22/2006 | 252.0 | 253.5 |
| 12/23/2006 | 250.7 | 253.2 |
| 12/24/2006 | 249.6 | 255.3 |
| 12/25/2006 | 250.5 | 252.4 |
| 12/26/2006 | 249.9 | 255.3 |
| 12/27/2006 | 251.5 | 261.1 |
| 12/28/2006 | 250.7 | 255.6 |
| 12/29/2006 | 251.5 | 256.7 |
| 12/30/2006 | 249.0 | 255.1 |
| 12/31/2006 | 251.6 | 253.7 |
| 1/1/2007 | 248.5 | 254.9 |
| 1/2/2007 | 251.3 | 260.0 |
| 1/3/2007 | 250.9 | 257.9 |
| 1/4/2007 | 249.0 | 253.2 |
| 1/5/2007 | 251.6 | 253.2 |
| 1/6/2007 | 250.9 | 253.1 |

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|-----------|-------|-------|
| 1/7/2007 | 236.7 | 260.6 |
| 1/8/2007 | 251.5 | 260.0 |
| 1/9/2007 | 251.2 | 260.1 |
| 1/10/2007 | 249.9 | 260.6 |
| 1/11/2007 | 242.1 | 260.6 |
| 1/12/2007 | 251.5 | 254.9 |
| 1/13/2007 | 251.8 | 253.4 |
| 1/14/2007 | 252.3 | 253.7 |
| 1/15/2007 | 251.2 | 254.2 |
| 1/16/2007 | 251.2 | 264.2 |
| 1/17/2007 | 252.3 | 263.9 |
| 1/18/2007 | 255.6 | 263.7 |
| 1/19/2007 | 252.0 | 260.6 |
| 1/20/2007 | 247.9 | 265.1 |
| 1/21/2007 | 251.0 | 254.8 |
| 1/22/2007 | 251.5 | 255.7 |
| 1/23/2007 | 253.2 | 258.2 |
| 1/24/2007 | 251.6 | 263.1 |
| 1/25/2007 | 247.4 | 261.2 |
| 1/26/2007 | 252.1 | 268.7 |
| 1/27/2007 | 249.8 | 254.5 |
| 1/28/2007 | 246.2 | 260.7 |
| 1/29/2007 | 256.8 | 264.5 |
| 1/30/2007 | 254.8 | 262.3 |
| 1/31/2007 | 248.8 | 259.6 |
| 2/1/2007 | 252.9 | 258.4 |
| 2/2/2007 | 254.6 | 258.7 |
| 2/3/2007 | 245.4 | 270.5 |
| 2/4/2007 | 254.8 | 261.2 |
| 2/5/2007 | 254.2 | 275.8 |
| 2/6/2007 | 255.7 | 284.9 |
| 2/7/2007 | 254.9 | 262.3 |
| 2/8/2007 | 253.6 | 280.3 |
| 2/9/2007 | 254.1 | 275.3 |
| 2/10/2007 | 252.4 | 263.2 |
| 2/11/2007 | 250.0 | 264.8 |
| 2/12/2007 | 251.6 | 262.6 |
| 2/13/2007 | 252.4 | 255.6 |
| 2/14/2007 | 252.7 | 265.2 |
| 2/15/2007 | 254.2 | 281.5 |
| 2/16/2007 | 253.1 | 282.3 |
| 2/17/2007 | 251.9 | 258.6 |
| 2/18/2007 | 250.3 | 258.8 |
| 2/19/2007 | 251.9 | 262.6 |
| 2/20/2007 | 251.4 | 258.5 |
| 2/21/2007 | 251.1 | 257.5 |
| 2/22/2007 | 248.7 | 254.7 |
| 2/23/2007 | 251.9 | 262.7 |
| 2/24/2007 | 251.6 | 257.2 |

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|-----------|-------|-------|
| 2/25/2007 | 250.9 | 256.1 |
| 2/26/2007 | 250.5 | 258.2 |
| 2/27/2007 | 250.9 | 259.9 |
| 2/28/2007 | 252.0 | 260.2 |
| 3/1/2007 | 252.0 | 254.4 |
| 3/2/2007 | 249.4 | 259.1 |
| 3/3/2007 | 252.0 | 256.0 |
| 3/4/2007 | 250.2 | 258.5 |
| 3/5/2007 | 250.5 | 262.2 |
| 3/6/2007 | 253.6 | 259.7 |
| 3/7/2007 | 251.8 | 256.0 |
| 3/8/2007 | 250.4 | 257.3 |
| 3/9/2007 | 250.4 | 264.4 |
| 3/11/2007 | 250.2 | 264.7 |
| 3/12/2007 | 254.9 | 264.8 |
| 3/13/2007 | 252.4 | 277.2 |
| 3/14/2007 | 257.3 | 270.6 |
| 3/15/2007 | 257.1 | 272.8 |
| 3/16/2007 | 242.2 | 263.4 |
| 3/17/2007 | 250.2 | 258.2 |
| 3/18/2007 | 251.3 | 256.7 |
| 3/19/2007 | 251.8 | 269.7 |
| 3/20/2007 | 231.4 | 323.1 |
| 3/21/2007 | 177.9 | 374.6 |
| 3/22/2007 | 246.0 | 287.1 |
| 3/23/2007 | 248.0 | 259.8 |
| 3/24/2007 | 247.9 | 253.4 |
| 3/25/2007 | 247.7 | 253.8 |
| 3/26/2007 | 247.3 | 254.5 |
| 3/27/2007 | 247.9 | 257.1 |
| 3/28/2007 | 248.7 | 257.1 |
| 3/29/2007 | 248.5 | 261.5 |
| 3/30/2007 | 248.7 | 355.7 |
| 3/31/2007 | 249.6 | 255.6 |
| 4/1/2007 | 249.5 | 255.7 |
| 4/2/2007 | 249.0 | 257.3 |
| 4/3/2007 | 248.4 | 257.0 |
| 4/4/2007 | 246.2 | 255.6 |
| 4/5/2007 | 248.4 | 263.9 |
| 4/6/2007 | 247.3 | 275.2 |
| 4/7/2007 | 243.3 | 264.4 |
| 4/8/2007 | 246.8 | 259.5 |
| 4/9/2007 | 244.3 | 262.2 |
| 4/10/2007 | 244.3 | 277.2 |
| 4/11/2007 | 247.7 | 277.7 |
| 4/12/2007 | 250.1 | 295.6 |
| 4/13/2007 | 249.9 | 296.1 |
| 4/14/2007 | 247.3 | 255.6 |
| 4/15/2007 | 245.1 | 256.5 |

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|-----------|-------|-------|
| 4/16/2007 | 248.8 | 260.4 |
| 4/17/2007 | 249.3 | 265.8 |
| 4/18/2007 | 257.5 | 267.5 |
| 4/19/2007 | 253.8 | 264.1 |
| 4/20/2007 | 249.3 | 265.1 |
| 4/21/2007 | 245.8 | 263.3 |
| 4/22/2007 | 250.2 | 264.2 |
| 4/23/2007 | 249.3 | 258.1 |
| 4/24/2007 | 247.9 | 258.6 |
| 4/25/2007 | 249.6 | 257.3 |
| 4/26/2007 | 248.2 | 268.3 |
| 4/27/2007 | 248.0 | 273.8 |
| 4/28/2007 | 248.0 | 274.4 |
| 4/29/2007 | 247.6 | 256.0 |
| 4/30/2007 | 247.1 | 275.5 |
| 5/1/2007 | 246.0 | 256.8 |
| 5/2/2007 | 247.3 | 255.7 |
| 5/3/2007 | 246.5 | 254.3 |
| 5/4/2007 | 248.4 | 255.6 |
| 5/5/2007 | 248.2 | 255.7 |
| 5/6/2007 | 248.8 | 261.9 |
| 5/7/2007 | 252.0 | 263.0 |
| 5/8/2007 | 252.1 | 262.3 |
| 5/9/2007 | 245.7 | 262.3 |
| 5/10/2007 | 247.3 | 261.7 |
| 5/11/2007 | 253.5 | 269.1 |
| 5/12/2007 | 258.6 | 267.8 |
| 5/13/2007 | 257.6 | 265.9 |
| 5/14/2007 | 253.2 | 268.0 |
| 5/15/2007 | 252.0 | 262.3 |
| 5/16/2007 | 251.0 | 260.3 |
| 5/17/2007 | 251.0 | 260.8 |
| 5/18/2007 | 244.4 | 260.6 |
| 5/19/2007 | 247.9 | 268.8 |
| 5/20/2007 | 246.8 | 271.3 |
| 5/21/2007 | 245.8 | 256.4 |
| 5/22/2007 | 246.3 | 256.8 |
| 5/23/2007 | 245.8 | 256.8 |
| 5/24/2007 | 246.3 | 256.2 |
| 5/25/2007 | 246.3 | 256.0 |
| 5/26/2007 | 247.9 | 261.5 |
| 5/27/2007 | 252.3 | 262.0 |
| 5/28/2007 | 252.4 | 261.9 |
| 5/29/2007 | 251.8 | 262.0 |
| 5/30/2007 | 250.4 | 261.1 |
| 5/31/2007 | 250.2 | 264.8 |
| 6/1/2007 | 250.4 | 260.9 |
| 6/2/2007 | 250.2 | 259.3 |
| 6/3/2007 | 247.6 | 260.8 |

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|-----------|-------|-------|
| 6/4/2007 | 247.4 | 257.1 |
| 6/5/2007 | 246.5 | 255.7 |
| 6/6/2007 | 246.6 | 256.0 |
| 6/7/2007 | 247.9 | 256.4 |
| 6/8/2007 | 247.1 | 254.9 |
| 6/9/2007 | 247.3 | 256.0 |
| 6/10/2007 | 247.9 | 255.7 |
| 6/11/2007 | 247.4 | 257.8 |
| 6/12/2007 | 247.4 | 256.7 |
| 6/13/2007 | 247.4 | 256.8 |
| 6/14/2007 | 247.6 | 257.0 |
| 6/15/2007 | 247.7 | 257.0 |
| 6/16/2007 | 247.6 | 257.5 |
| 6/17/2007 | 248.4 | 257.5 |
| 6/18/2007 | 247.4 | 257.1 |
| 6/19/2007 | 247.4 | 256.4 |
| 6/20/2007 | 247.3 | 257.0 |
| 6/21/2007 | 246.9 | 257.0 |
| 6/22/2007 | 247.4 | 255.4 |
| 6/23/2007 | 247.3 | 255.4 |
| 6/24/2007 | 247.4 | 254.2 |
| 6/25/2007 | 247.3 | 257.1 |
| 6/26/2007 | 247.9 | 257.1 |
| 6/27/2007 | 247.1 | 257.1 |
| 6/28/2007 | 247.1 | 257.1 |
| 6/29/2007 | 247.4 | 255.3 |
| 6/30/2007 | 248.0 | 256.0 |
| 7/1/2007 | 248.2 | 255.7 |
| 7/2/2007 | 246.6 | 256.0 |
| 7/3/2007 | 247.1 | 256.4 |
| 7/4/2007 | 248.4 | 256.2 |
| 7/5/2007 | 246.9 | 256.8 |
| 7/6/2007 | 246.6 | 255.6 |
| 7/7/2007 | 247.3 | 255.7 |
| 7/8/2007 | 246.6 | 256.5 |
| 7/9/2007 | 246.6 | 257.1 |
| 7/10/2007 | 246.9 | 255.9 |
| 7/11/2007 | 246.8 | 255.9 |
| 7/12/2007 | 246.9 | 256.8 |
| 7/13/2007 | 248.4 | 256.7 |
| 7/14/2007 | 248.5 | 257.3 |
| 7/15/2007 | 249.0 | 257.3 |
| 7/16/2007 | 247.6 | 257.0 |
| 7/17/2007 | 247.4 | 257.3 |
| 7/18/2007 | 248.5 | 257.3 |
| 7/19/2007 | 248.0 | 257.6 |
| 7/20/2007 | 247.3 | 256.8 |
| 7/21/2007 | 247.6 | 256.2 |
| 7/22/2007 | 248.0 | 256.7 |

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|-----------|-------|-------|
| 7/23/2007 | 246.9 | 256.4 |
| 7/24/2007 | 246.8 | 256.7 |
| 7/25/2007 | 247.1 | 257.1 |
| 7/26/2007 | 247.6 | 256.7 |
| 7/27/2007 | 247.6 | 256.4 |
| 7/28/2007 | 248.8 | 255.4 |
| 7/29/2007 | 248.4 | 256.5 |
| 7/30/2007 | 247.3 | 256.2 |
| 7/31/2007 | 247.4 | 256.5 |
| 8/1/2007 | 246.9 | 257.1 |
| 8/2/2007 | 246.0 | 256.7 |
| 8/3/2007 | 247.4 | 257.3 |
| 8/4/2007 | 247.3 | 256.8 |
| 8/5/2007 | 248.4 | 257.3 |
| 8/6/2007 | 248.0 | 296.4 |
| 8/7/2007 | 243.8 | 260.8 |
| 8/8/2007 | 243.8 | 295.3 |
| 8/9/2007 | 263.9 | 287.6 |
| 8/10/2007 | 249.0 | 267.0 |
| 8/11/2007 | 248.8 | 257.6 |
| 8/12/2007 | 248.7 | 257.8 |
| 8/13/2007 | 248.5 | 257.3 |
| 8/14/2007 | 247.9 | 258.2 |
| 8/15/2007 | 248.2 | 285.7 |
| 8/16/2007 | 253.7 | 269.5 |
| 8/17/2007 | 253.8 | 263.7 |
| 8/18/2007 | 253.7 | 263.0 |
| 8/19/2007 | 253.5 | 264.1 |
| 8/20/2007 | 252.9 | 264.2 |
| 8/21/2007 | 252.6 | 263.4 |
| 8/22/2007 | 253.7 | 284.8 |
| 8/23/2007 | 262.6 | 284.0 |
| 8/24/2007 | 262.8 | 275.4 |
| 8/25/2007 | 262.2 | 272.7 |
| 8/26/2007 | 262.3 | 272.4 |
| 8/27/2007 | 261.1 | 273.2 |
| 8/28/2007 | 260.9 | 273.2 |
| 8/29/2007 | 261.4 | 272.8 |
| 8/30/2007 | 251.2 | 271.6 |
| 8/31/2007 | 249.6 | 261.2 |
| 9/1/2007 | 251.2 | 260.9 |
| 9/2/2007 | 251.2 | 261.7 |
| 9/3/2007 | 252.0 | 262.5 |
| 9/4/2007 | 250.5 | 263.1 |
| 9/5/2007 | 251.3 | 263.6 |
| 9/6/2007 | 252.4 | 262.6 |
| 9/7/2007 | 249.1 | 260.9 |
| 9/8/2007 | 249.3 | 258.1 |
| 9/9/2007 | 249.5 | 257.5 |

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|------------|-------|-------|
| 9/10/2007 | 248.5 | 257.6 |
| 9/11/2007 | 249.0 | 257.5 |
| 9/12/2007 | 248.2 | 261.2 |
| 9/13/2007 | 247.3 | 257.6 |
| 9/14/2007 | 249.0 | 258.2 |
| 9/15/2007 | 248.0 | 256.8 |
| 9/16/2007 | 248.0 | 257.8 |
| 9/17/2007 | 244.1 | 264.4 |
| 9/18/2007 | 252.1 | 264.2 |
| 9/19/2007 | 252.6 | 264.5 |
| 9/20/2007 | 251.8 | 264.4 |
| 9/21/2007 | 252.6 | 264.4 |
| 9/22/2007 | 254.3 | 263.9 |
| 9/23/2007 | 253.8 | 264.2 |
| 9/24/2007 | 253.1 | 264.2 |
| 9/25/2007 | 252.9 | 263.0 |
| 9/26/2007 | 252.7 | 258.7 |
| 9/27/2007 | 252.6 | 261.2 |
| 9/28/2007 | 252.4 | 262.8 |
| 9/29/2007 | 252.6 | 263.1 |
| 9/30/2007 | 252.1 | 263.4 |
| 10/1/2007 | 253.1 | 263.3 |
| 10/2/2007 | 252.6 | 263.6 |
| 10/3/2007 | 253.5 | 262.6 |
| 10/4/2007 | 253.1 | 263.9 |
| 10/5/2007 | 253.1 | 264.8 |
| 10/6/2007 | 247.4 | 262.6 |
| 10/7/2007 | 248.0 | 257.5 |
| 10/8/2007 | 156.2 | 256.8 |
| 10/9/2007 | 79.3 | 160.9 |
| 10/10/2007 | 0.0 | 87.9 |
| 10/11/2007 | 0.0 | 265.8 |
| 10/12/2007 | 255.7 | 267.0 |
| 10/13/2007 | 254.5 | 266.2 |
| 10/14/2007 | 253.2 | 263.7 |
| 10/15/2007 | 248.8 | 265.6 |
| 10/16/2007 | 248.8 | 258.2 |
| 10/17/2007 | 248.4 | 259.0 |
| 10/18/2007 | 248.8 | 258.2 |
| 10/19/2007 | 248.7 | 256.4 |
| 10/20/2007 | 248.5 | 259.2 |
| 10/21/2007 | 248.8 | 260.6 |
| 10/22/2007 | 248.8 | 265.9 |
| 10/23/2007 | 247.7 | 257.8 |
| 10/24/2007 | 247.6 | 260.9 |
| 10/25/2007 | 248.2 | 253.8 |
| 10/26/2007 | 247.7 | 258.9 |
| 10/27/2007 | 248.0 | 256.0 |
| 10/28/2007 | 247.6 | 262.3 |

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| | | |
|------------|-------|-------|
| 10/29/2007 | 246.9 | 265.3 |
| 10/30/2007 | 244.6 | 264.5 |
| 10/31/2007 | 250.1 | 267.3 |
| 11/1/2007 | 247.6 | 258.1 |
| 11/2/2007 | 247.3 | 265.3 |
| 11/3/2007 | 246.3 | 260.0 |
| 11/4/2007 | 149.0 | 264.2 |
| 11/5/2007 | 122.0 | 225.1 |
| 11/6/2007 | 116.8 | 275.0 |
| 11/7/2007 | 246.0 | 279.9 |
| 11/8/2007 | 246.5 | 273.5 |
| 11/9/2007 | 253.1 | 266.6 |
| 11/10/2007 | 244.9 | 264.7 |
| 11/11/2007 | 249.8 | 265.8 |
| 11/12/2007 | 254.5 | 266.4 |
| 11/13/2007 | 255.7 | 265.8 |
| 11/14/2007 | 255.4 | 266.1 |
| 11/15/2007 | 253.2 | 264.2 |
| 11/16/2007 | 248.4 | 268.8 |
| 11/17/2007 | 246.3 | 267.3 |
| 11/18/2007 | 249.1 | 268.1 |
| 11/19/2007 | 246.2 | 267.8 |
| 11/20/2007 | 254.9 | 265.9 |
| 11/21/2007 | 255.1 | 262.8 |
| 11/22/2007 | 247.3 | 262.0 |
| 11/23/2007 | 251.0 | 272.8 |
| 11/24/2007 | 254.9 | 277.6 |
| 11/25/2007 | 250.5 | 275.7 |
| 11/26/2007 | 249.0 | 267.7 |
| 11/27/2007 | 246.0 | 268.4 |
| 11/28/2007 | 246.3 | 265.9 |
| 11/29/2007 | 247.7 | 262.3 |
| 11/30/2007 | 249.6 | 273.2 |
| 12/1/2007 | 251.2 | 264.4 |
| 12/2/2007 | 246.5 | 262.0 |
| 12/3/2007 | 247.1 | 277.9 |
| 12/4/2007 | 257.0 | 282.4 |
| 12/5/2007 | 250.8 | 269.9 |
| 12/6/2007 | 250.3 | 292.4 |
| 12/7/2007 | 246.2 | 266.2 |
| 12/8/2007 | 246.5 | 260.5 |
| 12/9/2007 | 245.6 | 260.8 |
| 12/10/2007 | 246.2 | 261.6 |
| 12/11/2007 | 147.1 | 280.8 |
| 12/12/2007 | 121.1 | 225.0 |
| 12/13/2007 | 101.0 | 231.8 |
| 12/14/2007 | 146.8 | 207.8 |
| 12/15/2007 | 146.4 | 199.6 |
| 12/16/2007 | 143.5 | 196.0 |

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| | | |
|------------|-------|-------|
| 12/17/2007 | 173.5 | 193.5 |
| 12/18/2007 | 148.7 | 214.8 |
| 12/19/2007 | 134.7 | 216.9 |
| 12/20/2007 | 133.2 | 210.0 |
| 12/21/2007 | 148.2 | 258.3 |
| 12/22/2007 | 146.7 | 250.5 |
| 12/23/2007 | 162.2 | 250.0 |
| 12/24/2007 | 157.5 | 251.3 |
| 12/25/2007 | 150.4 | 257.1 |
| 12/26/2007 | 177.9 | 252.8 |
| 12/27/2007 | 150.1 | 251.9 |
| 12/28/2007 | 146.4 | 256.4 |
| 12/29/2007 | 149.2 | 235.2 |
| 12/30/2007 | 150.0 | 247.2 |
| 12/31/2007 | 144.2 | 258.3 |
| 1/1/2008 | 144.5 | 242.6 |
| 1/2/2008 | 207.6 | 328.8 |
| 1/3/2008 | 192.8 | 347.5 |
| 1/4/2008 | 220.3 | 252.8 |
| 1/5/2008 | 208.2 | 256.4 |
| 1/6/2008 | 147.3 | 257.5 |
| 1/7/2008 | 147.9 | 259.3 |
| 1/8/2008 | 149.2 | 257.1 |
| 1/9/2008 | 148.6 | 256.1 |
| 1/10/2008 | 148.4 | 340.3 |
| 1/11/2008 | 250.2 | 266.6 |
| 1/12/2008 | 251.1 | 263.0 |
| 1/13/2008 | 246.7 | 253.8 |
| 1/14/2008 | 250.3 | 264.8 |
| 1/15/2008 | 251.7 | 262.1 |
| 1/16/2008 | 251.1 | 287.7 |
| 1/17/2008 | 253.0 | 257.4 |
| 1/18/2008 | 253.9 | 286.1 |
| 1/19/2008 | 259.4 | 263.0 |
| 1/20/2008 | 256.9 | 273.9 |
| 1/21/2008 | 253.8 | 289.4 |
| 1/22/2008 | 253.6 | 258.3 |
| 1/23/2008 | 252.8 | 299.9 |
| 1/24/2008 | 256.0 | 285.6 |
| 1/25/2008 | 250.8 | 300.1 |
| 1/26/2008 | 253.3 | 256.4 |
| 1/27/2008 | 251.6 | 258.0 |
| 1/28/2008 | 252.2 | 292.4 |
| 1/29/2008 | 255.3 | 266.2 |
| 1/30/2008 | 254.6 | 265.4 |
| 1/31/2008 | 258.0 | 294.4 |
| 2/1/2008 | 256.3 | 264.1 |
| 2/2/2008 | 251.1 | 257.7 |
| 2/3/2008 | 250.5 | 262.1 |

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| | | |
|-----------|-------|-------|
| 2/4/2008 | 251.3 | 254.4 |
| 2/5/2008 | 250.9 | 262.4 |
| 2/6/2008 | 251.3 | 255.8 |
| 2/7/2008 | 250.3 | 263.8 |
| 2/8/2008 | 247.8 | 261.8 |
| 2/9/2008 | 251.9 | 254.2 |
| 2/10/2008 | 252.7 | 282.8 |
| 2/11/2008 | 254.1 | 291.1 |
| 2/12/2008 | 252.8 | 273.4 |
| 2/13/2008 | 253.0 | 290.2 |
| 2/14/2008 | 250.0 | 288.8 |
| 2/15/2008 | 249.8 | 256.0 |
| 2/16/2008 | 251.4 | 272.8 |
| 2/17/2008 | 251.4 | 254.9 |
| 2/18/2008 | 247.6 | 259.0 |
| 2/19/2008 | 251.7 | 261.5 |
| 2/20/2008 | 245.9 | 281.6 |
| 2/21/2008 | 249.1 | 293.8 |
| 2/22/2008 | 251.3 | 263.0 |
| 2/23/2008 | 252.2 | 288.8 |
| 2/24/2008 | 253.5 | 259.6 |
| 2/25/2008 | 252.8 | 260.2 |
| 2/26/2008 | 253.8 | 264.0 |
| 2/27/2008 | 256.0 | 269.8 |
| 2/28/2008 | 250.8 | 283.9 |
| 2/29/2008 | 250.2 | 259.9 |
| 3/1/2008 | 249.8 | 259.1 |
| 3/2/2008 | 250.3 | 259.4 |
| 3/3/2008 | 252.0 | 259.1 |
| 3/4/2008 | 250.9 | 258.3 |
| 3/5/2008 | 253.3 | 258.8 |
| 3/6/2008 | 254.6 | 261.8 |
| 3/7/2008 | 256.6 | 260.4 |
| 3/8/2008 | 253.6 | 270.3 |
| 3/9/2008 | 252.4 | 274.0 |
| 3/10/2008 | 250.3 | 285.0 |
| 3/11/2008 | 250.2 | 293.5 |
| 3/12/2008 | 250.3 | 287.4 |
| 3/13/2008 | 250.9 | 259.7 |
| 3/14/2008 | 250.9 | 261.8 |
| 3/15/2008 | 249.7 | 259.4 |
| 3/16/2008 | 250.8 | 261.5 |
| 3/17/2008 | 252.2 | 262.2 |
| 3/18/2008 | 252.2 | 259.7 |
| 3/19/2008 | 251.9 | 280.9 |
| 3/20/2008 | 250.9 | 281.6 |
| 3/21/2008 | 250.8 | 270.3 |
| 3/22/2008 | 251.9 | 259.1 |
| 3/23/2008 | 251.1 | 259.1 |

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| | | |
|-----------|-------|-------|
| 3/24/2008 | 249.7 | 261.9 |
| 3/25/2008 | 251.9 | 269.5 |
| 3/26/2008 | 250.0 | 266.8 |
| 3/27/2008 | 250.9 | 256.0 |
| 3/28/2008 | 250.8 | 252.5 |
| 3/29/2008 | 249.4 | 257.4 |
| 3/30/2008 | 250.3 | 253.0 |
| 3/31/2008 | 251.3 | 253.1 |
| 4/1/2008 | 251.3 | 255.3 |
| 4/2/2008 | 249.5 | 263.5 |
| 4/3/2008 | 250.0 | 262.2 |
| 4/4/2008 | 251.1 | 252.4 |
| 4/5/2008 | 250.0 | 254.6 |
| 4/6/2008 | 251.6 | 254.2 |
| 4/7/2008 | 238.5 | 270.7 |
| 4/8/2008 | 250.5 | 294.1 |
| 4/9/2008 | 252.2 | 253.5 |
| 4/10/2008 | 0.0 | 256.6 |
| 4/11/2008 | 250.8 | 295.2 |
| 4/12/2008 | 251.3 | 278.4 |
| 4/13/2008 | 251.1 | 264.8 |
| 4/14/2008 | 251.6 | 267.7 |
| 4/15/2008 | 251.3 | 306.7 |
| 4/16/2008 | 251.9 | 270.9 |
| 4/17/2008 | 251.9 | 291.6 |
| 4/18/2008 | 245.6 | 292.2 |
| 4/19/2008 | 250.8 | 252.4 |
| 4/20/2008 | 250.2 | 252.0 |
| 4/21/2008 | 250.3 | 260.2 |
| 4/22/2008 | 251.3 | 253.0 |
| 4/23/2008 | 251.9 | 257.5 |
| 4/24/2008 | 252.0 | 255.2 |
| 4/25/2008 | 250.8 | 292.2 |
| 4/26/2008 | 251.1 | 293.8 |
| 4/27/2008 | 247.6 | 291.9 |
| 4/28/2008 | 250.9 | 291.5 |
| 4/29/2008 | 251.3 | 270.6 |
| 4/30/2008 | 249.8 | 256.9 |
| 5/1/2008 | 251.1 | 257.2 |
| 5/2/2008 | 251.1 | 253.0 |
| 5/3/2008 | 251.1 | 261.5 |
| 5/4/2008 | 250.3 | 288.2 |
| 5/5/2008 | 250.0 | 291.3 |
| 5/6/2008 | 242.3 | 292.1 |
| 5/7/2008 | 248.6 | 285.0 |
| 5/8/2008 | 236.5 | 293.5 |
| 5/9/2008 | 244.5 | 294.1 |
| 5/10/2008 | 246.1 | 296.5 |
| 5/11/2008 | 250.8 | 296.6 |

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| | | |
|-----------|-------|-------|
| 5/12/2008 | 251.4 | 260.7 |
| 5/13/2008 | 251.9 | 253.6 |
| 5/14/2008 | 250.9 | 253.8 |
| 5/15/2008 | 250.6 | 252.0 |
| 5/16/2008 | 250.6 | 252.2 |
| 5/17/2008 | 250.5 | 252.4 |
| 5/18/2008 | 250.8 | 252.5 |
| 5/19/2008 | 250.5 | 252.4 |
| 5/20/2008 | 203.7 | 292.6 |
| 5/21/2008 | 156.4 | 279.2 |
| 5/22/2008 | 147.0 | 288.2 |
| 5/23/2008 | 148.2 | 300.3 |
| 5/24/2008 | 250.9 | 253.1 |
| 5/25/2008 | 250.8 | 252.7 |
| 5/26/2008 | 250.9 | 252.7 |
| 5/27/2008 | 250.8 | 252.7 |
| 5/28/2008 | 250.8 | 258.6 |
| 5/29/2008 | 176.0 | 265.7 |
| 5/30/2008 | 251.1 | 253.0 |
| 5/31/2008 | 250.9 | 252.8 |
| 6/1/2008 | 251.1 | 253.1 |
| 6/2/2008 | 251.6 | 253.0 |
| 6/3/2008 | 251.4 | 253.1 |
| 6/4/2008 | 251.7 | 253.3 |
| 6/5/2008 | 251.3 | 253.5 |
| 6/6/2008 | 251.6 | 253.3 |
| 6/7/2008 | 251.6 | 253.5 |
| 6/8/2008 | 205.2 | 253.3 |
| 6/9/2008 | 109.9 | 258.8 |
| 6/10/2008 | 251.6 | 253.3 |
| 6/11/2008 | 251.4 | 253.3 |
| 6/12/2008 | 251.3 | 253.1 |
| 6/13/2008 | 251.4 | 253.1 |
| 6/14/2008 | 251.3 | 253.1 |
| 6/15/2008 | 251.4 | 253.1 |
| 6/16/2008 | 251.3 | 253.1 |
| 6/17/2008 | 251.6 | 253.1 |
| 6/18/2008 | 251.3 | 253.1 |
| 6/19/2008 | 251.3 | 273.1 |
| 6/20/2008 | 251.3 | 253.1 |
| 6/21/2008 | 250.8 | 252.8 |
| 6/22/2008 | 251.3 | 252.8 |
| 6/23/2008 | 251.4 | 253.1 |
| 6/24/2008 | 251.3 | 253.5 |
| 6/25/2008 | 251.3 | 253.5 |
| 6/26/2008 | 250.8 | 253.3 |
| 6/27/2008 | 251.4 | 253.3 |
| 6/28/2008 | 251.3 | 253.1 |
| 6/29/2008 | 251.3 | 253.1 |

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| | | |
|-----------|-------|-------|
| 6/30/2008 | 251.4 | 253.0 |
| 7/1/2008 | 251.6 | 253.1 |
| 7/2/2008 | 251.4 | 253.3 |
| 7/3/2008 | 251.6 | 253.5 |
| 7/4/2008 | 251.3 | 253.1 |
| 7/5/2008 | 251.6 | 253.3 |
| 7/6/2008 | 251.4 | 253.3 |
| 7/7/2008 | 251.7 | 253.5 |
| 7/8/2008 | 250.9 | 253.5 |
| 7/9/2008 | 251.3 | 253.1 |
| 7/10/2008 | 251.3 | 252.9 |
| 7/11/2008 | 251.0 | 253.1 |
| 7/12/2008 | 251.2 | 253.1 |
| 7/13/2008 | 251.6 | 253.4 |
| 7/14/2008 | 251.5 | 253.5 |
| 7/15/2008 | 251.2 | 253.4 |
| 7/16/2008 | 251.3 | 253.2 |
| 7/17/2008 | 251.3 | 253.4 |
| 7/18/2008 | 251.3 | 253.4 |
| 7/19/2008 | 251.3 | 253.4 |
| 7/20/2008 | 251.0 | 253.1 |
| 7/21/2008 | 251.6 | 253.2 |
| 7/22/2008 | 251.8 | 253.5 |
| 7/23/2008 | 251.8 | 253.5 |
| 7/24/2008 | 251.6 | 253.5 |
| 7/25/2008 | 251.5 | 253.4 |
| 7/26/2008 | 251.5 | 253.2 |
| 7/27/2008 | 251.6 | 253.5 |
| 7/28/2008 | 251.3 | 253.4 |
| 7/29/2008 | 251.2 | 253.1 |
| 7/30/2008 | 251.5 | 253.4 |
| 7/31/2008 | 251.5 | 253.4 |
| 8/1/2008 | 251.5 | 253.4 |
| 8/2/2008 | 251.3 | 253.2 |
| 8/3/2008 | 251.5 | 253.4 |
| 8/4/2008 | 251.5 | 253.4 |
| 8/5/2008 | 251.8 | 253.5 |
| 8/6/2008 | 251.3 | 253.2 |
| 8/7/2008 | 251.3 | 253.2 |
| 8/8/2008 | 251.6 | 253.5 |
| 8/9/2008 | 251.6 | 253.5 |
| 8/10/2008 | 251.6 | 253.4 |
| 8/11/2008 | 251.6 | 253.5 |
| 8/12/2008 | 251.8 | 253.5 |
| 8/13/2008 | 251.6 | 253.5 |
| 8/14/2008 | 251.2 | 253.2 |
| 8/15/2008 | 251.5 | 253.1 |
| 8/16/2008 | 251.3 | 253.5 |
| 8/17/2008 | 251.5 | 253.2 |

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| | | |
|-----------|-------|-------|
| 8/18/2008 | 251.3 | 253.2 |
| 8/19/2008 | 251.3 | 253.2 |
| 8/20/2008 | 251.3 | 253.2 |
| 8/21/2008 | 251.5 | 253.2 |
| 8/22/2008 | 251.3 | 253.2 |
| 8/23/2008 | 251.2 | 253.1 |
| 8/24/2008 | 251.5 | 253.2 |
| 8/25/2008 | 251.2 | 253.2 |
| 8/26/2008 | 251.6 | 253.2 |
| 8/27/2008 | 252.0 | 253.4 |
| 8/28/2008 | 251.5 | 253.2 |
| 8/29/2008 | 251.5 | 253.4 |
| 8/30/2008 | 251.5 | 253.4 |
| 8/31/2008 | 251.5 | 253.4 |
| 9/1/2008 | 251.2 | 253.4 |
| 9/2/2008 | 251.3 | 252.9 |
| 9/3/2008 | 251.5 | 253.5 |
| 9/4/2008 | 251.5 | 253.1 |
| 9/5/2008 | 252.1 | 253.2 |
| 9/6/2008 | 251.6 | 253.4 |
| 9/7/2008 | 251.6 | 253.4 |
| 9/8/2008 | 251.6 | 253.4 |
| 9/9/2008 | 252.3 | 253.7 |
| 9/10/2008 | 252.0 | 253.5 |
| 9/11/2008 | 251.8 | 253.4 |
| 9/12/2008 | 251.6 | 253.5 |
| 9/13/2008 | 251.6 | 253.4 |
| 9/14/2008 | 251.6 | 253.4 |
| 9/15/2008 | 252.0 | 253.4 |
| 9/16/2008 | 251.6 | 253.4 |
| 9/17/2008 | 251.5 | 253.2 |
| 9/18/2008 | 251.5 | 253.2 |
| 9/19/2008 | 251.5 | 253.2 |
| 9/20/2008 | 251.5 | 253.4 |
| 9/21/2008 | 251.3 | 253.2 |
| 9/22/2008 | 251.6 | 253.2 |
| 9/23/2008 | 251.5 | 253.4 |
| 9/24/2008 | 251.5 | 253.4 |
| 9/25/2008 | 251.3 | 253.2 |
| 9/26/2008 | 251.3 | 253.4 |
| 9/27/2008 | 251.8 | 253.2 |
| 9/28/2008 | 251.5 | 253.4 |
| 9/29/2008 | 251.3 | 253.2 |
| 9/30/2008 | 251.6 | 253.2 |
| 10/1/2008 | 251.8 | 253.2 |
| 10/2/2008 | 252.0 | 253.4 |
| 10/3/2008 | 251.6 | 253.5 |
| 10/4/2008 | 251.6 | 253.4 |
| 10/5/2008 | 251.3 | 253.4 |

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| | | |
|------------|-------|-------|
| 10/6/2008 | 251.3 | 253.5 |
| 10/7/2008 | 251.2 | 253.2 |
| 10/8/2008 | 251.6 | 253.1 |
| 10/9/2008 | 250.9 | 253.1 |
| 10/10/2008 | 251.5 | 252.9 |
| 10/11/2008 | 251.2 | 253.1 |
| 10/12/2008 | 251.2 | 253.1 |
| 10/13/2008 | 251.3 | 253.1 |
| 10/14/2008 | 251.3 | 253.2 |
| 10/15/2008 | 251.2 | 253.2 |
| 10/16/2008 | 252.1 | 253.5 |
| 10/17/2008 | 252.1 | 253.7 |
| 10/18/2008 | 252.1 | 253.5 |
| 10/19/2008 | 251.6 | 253.4 |
| 10/20/2008 | 251.8 | 253.5 |
| 10/21/2008 | 252.1 | 253.5 |
| 10/22/2008 | 250.9 | 253.7 |
| 10/23/2008 | 251.5 | 258.4 |
| 10/24/2008 | 252.3 | 254.3 |
| 10/25/2008 | 252.4 | 253.8 |
| 10/26/2008 | 252.1 | 254.2 |
| 10/27/2008 | 251.3 | 258.4 |
| 10/28/2008 | 254.9 | 264.1 |
| 10/29/2008 | 257.8 | 267.8 |
| 10/30/2008 | 247.9 | 263.1 |
| 10/31/2008 | 252.3 | 266.2 |
| 11/1/2008 | 252.3 | 254.2 |
| 11/2/2008 | 252.4 | 254.3 |
| 11/3/2008 | 245.7 | 269.4 |
| 11/4/2008 | 247.7 | 264.4 |
| 11/5/2008 | 253.1 | 258.7 |
| 11/6/2008 | 252.9 | 255.3 |
| 11/7/2008 | 249.8 | 263.6 |
| 11/8/2008 | 251.6 | 253.1 |
| 11/9/2008 | 251.3 | 252.9 |
| 11/10/2008 | 250.1 | 267.8 |
| 11/11/2008 | 250.9 | 260.0 |
| 11/12/2008 | 249.9 | 253.7 |
| 11/13/2008 | 249.8 | 252.0 |
| 11/14/2008 | 250.5 | 253.8 |
| 11/15/2008 | 251.6 | 253.8 |
| 11/16/2008 | 250.4 | 252.6 |
| 11/17/2008 | 250.4 | 257.9 |
| 11/18/2008 | 254.6 | 264.1 |
| 11/19/2008 | 252.6 | 261.7 |
| 11/20/2008 | 252.6 | 260.8 |
| 11/21/2008 | 251.8 | 263.7 |
| 11/22/2008 | 250.1 | 263.3 |
| 11/23/2008 | 250.1 | 259.2 |

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|------------|-------|-------|
| 11/24/2008 | 251.3 | 255.3 |
| 11/25/2008 | 252.4 | 261.4 |
| 11/26/2008 | 253.1 | 263.1 |
| 11/27/2008 | 250.7 | 258.6 |
| 11/28/2008 | 249.6 | 252.0 |
| 11/29/2008 | 245.2 | 258.7 |
| 11/30/2008 | 251.0 | 252.4 |
| 12/1/2008 | 250.7 | 260.8 |
| 12/2/2008 | 249.9 | 260.6 |
| 12/3/2008 | 253.1 | 265.5 |
| 12/4/2008 | 253.5 | 266.1 |
| 12/5/2008 | 248.5 | 282.3 |
| 12/6/2008 | 254.2 | 262.0 |
| 12/7/2008 | 250.2 | 263.7 |
| 12/8/2008 | 250.4 | 261.5 |
| 12/9/2008 | 251.8 | 256.8 |
| 12/10/2008 | 238.1 | 260.6 |
| 12/11/2008 | 249.9 | 260.1 |
| 12/12/2008 | 255.4 | 260.0 |
| 12/13/2008 | 250.2 | 261.9 |
| 12/14/2008 | 250.7 | 256.8 |
| 12/15/2008 | 250.5 | 258.9 |
| 12/16/2008 | 252.0 | 262.6 |
| 12/17/2008 | 252.7 | 259.0 |
| 12/18/2008 | 252.0 | 259.3 |
| 12/19/2008 | 252.1 | 256.7 |
| 12/20/2008 | 251.8 | 258.7 |
| 12/21/2008 | 246.9 | 266.9 |
| 12/22/2008 | 254.9 | 265.3 |
| 12/23/2008 | 257.6 | 263.0 |
| 12/24/2008 | 250.5 | 261.1 |
| 12/25/2008 | 251.3 | 265.0 |
| 12/26/2008 | 251.0 | 260.8 |
| 12/27/2008 | 230.6 | 256.0 |
| 12/28/2008 | 251.0 | 254.5 |
| 12/29/2008 | 250.9 | 257.0 |
| 12/30/2008 | 251.0 | 264.8 |
| 12/31/2008 | 250.4 | 259.8 |
| 1/1/2009 | 249.8 | 262.6 |
| 1/2/2009 | 250.2 | 253.1 |
| 1/3/2009 | 249.8 | 254.6 |
| 1/4/2009 | 251.2 | 255.6 |
| 1/5/2009 | 254.2 | 263.9 |
| 1/6/2009 | 250.4 | 256.2 |
| 1/7/2009 | 249.6 | 262.5 |
| 1/8/2009 | 252.0 | 263.3 |
| 1/9/2009 | 252.0 | 262.5 |
| 1/10/2009 | 252.0 | 255.7 |
| 1/11/2009 | 249.9 | 265.5 |

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|-----------|-------|-------|
| 1/12/2009 | 249.0 | 259.8 |
| 1/13/2009 | 252.4 | 259.8 |
| 1/14/2009 | 249.5 | 262.6 |
| 1/15/2009 | 256.4 | 273.8 |
| 1/16/2009 | 262.2 | 280.8 |
| 1/17/2009 | 253.2 | 266.7 |
| 1/18/2009 | 252.1 | 257.3 |
| 1/19/2009 | 253.7 | 259.3 |
| 1/20/2009 | 256.5 | 278.2 |
| 1/21/2009 | 250.5 | 273.3 |
| 1/22/2009 | 250.2 | 262.5 |
| 1/23/2009 | 249.6 | 258.2 |
| 1/24/2009 | 253.0 | 258.4 |
| 1/25/2009 | 254.6 | 258.4 |
| 1/26/2009 | 254.9 | 264.7 |
| 1/27/2009 | 254.6 | 264.1 |
| 1/28/2009 | 252.7 | 264.5 |
| 1/29/2009 | 252.6 | 262.8 |
| 1/30/2009 | 252.0 | 262.8 |
| 1/31/2009 | 251.5 | 260.9 |
| 2/1/2009 | 249.6 | 256.2 |
| 2/2/2009 | 252.9 | 261.9 |
| 2/3/2009 | 257.3 | 262.6 |
| 2/4/2009 | 252.0 | 273.3 |
| 2/5/2009 | 253.2 | 263.7 |
| 2/6/2009 | 250.1 | 263.9 |
| 2/7/2009 | 250.7 | 257.0 |
| 2/8/2009 | 251.3 | 252.4 |
| 2/9/2009 | 251.2 | 257.6 |
| 2/10/2009 | 251.5 | 254.9 |
| 2/11/2009 | 251.2 | 254.8 |
| 2/12/2009 | 250.9 | 257.1 |
| 2/13/2009 | 250.2 | 262.8 |
| 2/14/2009 | 249.6 | 258.7 |
| 2/15/2009 | 248.0 | 260.8 |
| 2/16/2009 | 251.2 | 258.7 |
| 2/17/2009 | 249.9 | 263.4 |
| 2/18/2009 | 249.5 | 257.9 |
| 2/19/2009 | 245.8 | 263.4 |
| 2/20/2009 | 245.1 | 261.9 |
| 2/21/2009 | 250.5 | 260.9 |
| 2/22/2009 | 257.8 | 263.7 |
| 2/23/2009 | 252.7 | 263.0 |
| 2/24/2009 | 250.5 | 263.3 |
| 2/25/2009 | 249.8 | 262.3 |
| 2/26/2009 | 250.5 | 255.4 |
| 2/27/2009 | 251.2 | 258.1 |
| 2/28/2009 | 250.5 | 256.7 |
| 3/1/2009 | 250.5 | 258.9 |

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|-----------|-------|-------|
| 3/2/2009 | 254.8 | 261.2 |
| 3/3/2009 | 249.6 | 261.9 |
| 3/4/2009 | 249.6 | 263.4 |
| 3/5/2009 | 250.5 | 254.9 |
| 3/6/2009 | 252.4 | 254.3 |
| 3/7/2009 | 251.3 | 254.3 |
| 3/8/2009 | 212.1 | 257.5 |
| 3/9/2009 | 251.3 | 258.9 |
| 3/10/2009 | 251.5 | 257.5 |
| 3/11/2009 | 250.4 | 258.4 |
| 3/12/2009 | 249.9 | 259.5 |
| 3/13/2009 | 251.0 | 263.6 |
| 3/14/2009 | 249.6 | 255.7 |
| 3/15/2009 | 250.1 | 253.2 |
| 3/16/2009 | 250.9 | 254.6 |
| 3/17/2009 | 250.5 | 258.7 |
| 3/18/2009 | 251.2 | 253.2 |
| 3/19/2009 | 251.5 | 253.2 |
| 3/20/2009 | 251.0 | 257.0 |
| 3/21/2009 | 250.7 | 257.0 |
| 3/22/2009 | 251.0 | 258.7 |
| 3/23/2009 | 251.6 | 257.8 |
| 3/24/2009 | 251.5 | 253.1 |
| 3/25/2009 | 251.8 | 253.4 |
| 3/26/2009 | 251.2 | 252.7 |
| 3/27/2009 | 250.9 | 257.5 |
| 3/28/2009 | 250.9 | 254.9 |
| 3/29/2009 | 249.6 | 256.7 |
| 3/30/2009 | 250.7 | 257.0 |
| 3/31/2009 | 252.0 | 254.2 |
| 4/1/2009 | 251.8 | 254.3 |
| 4/2/2009 | 251.6 | 254.2 |
| 4/3/2009 | 251.3 | 254.3 |
| 4/4/2009 | 250.7 | 260.3 |
| 4/5/2009 | 251.0 | 252.9 |
| 4/6/2009 | 249.8 | 257.3 |
| 4/7/2009 | 250.5 | 262.2 |
| 4/8/2009 | 250.5 | 262.6 |
| 4/9/2009 | 250.1 | 253.8 |
| 4/10/2009 | 251.2 | 254.8 |
| 4/11/2009 | 251.0 | 252.7 |
| 4/12/2009 | 249.9 | 252.6 |
| 4/13/2009 | 250.2 | 252.7 |
| 4/14/2009 | 251.2 | 252.7 |
| 4/15/2009 | 249.9 | 252.1 |
| 4/16/2009 | 250.2 | 252.9 |
| 4/17/2009 | 244.6 | 256.2 |
| 4/18/2009 | 239.1 | 256.8 |
| 4/19/2009 | 244.9 | 255.9 |

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| | | |
|-----------|-------|-------|
| 4/20/2009 | 251.3 | 257.8 |
| 4/21/2009 | 250.7 | 256.8 |
| 4/22/2009 | 251.2 | 262.3 |
| 4/23/2009 | 250.9 | 252.7 |
| 4/24/2009 | 251.0 | 252.9 |
| 4/25/2009 | 251.0 | 252.9 |
| 4/26/2009 | 239.7 | 256.2 |
| 4/27/2009 | 251.3 | 253.2 |
| 4/28/2009 | 251.6 | 253.1 |
| 4/29/2009 | 251.3 | 253.2 |
| 4/30/2009 | 251.6 | 253.2 |
| 5/1/2009 | 244.9 | 266.2 |
| 5/2/2009 | 251.3 | 253.2 |
| 5/3/2009 | 251.8 | 253.2 |
| 5/4/2009 | 251.5 | 253.2 |
| 5/5/2009 | 251.3 | 253.1 |
| 5/6/2009 | 251.3 | 252.9 |
| 5/7/2009 | 251.3 | 253.1 |
| 5/8/2009 | 251.3 | 253.1 |
| 5/9/2009 | 251.2 | 253.1 |
| 5/10/2009 | 251.0 | 256.4 |
| 5/11/2009 | 251.0 | 253.1 |
| 5/12/2009 | 251.0 | 252.9 |
| 5/13/2009 | 251.6 | 253.5 |
| 5/14/2009 | 251.2 | 252.7 |
| 5/15/2009 | 251.0 | 252.9 |
| 5/16/2009 | 239.9 | 256.5 |
| 5/17/2009 | 251.2 | 252.9 |
| 5/18/2009 | 251.2 | 252.9 |
| 5/19/2009 | 251.2 | 252.9 |
| 5/20/2009 | 250.9 | 252.7 |
| 5/21/2009 | 220.4 | 257.5 |
| 5/22/2009 | 223.4 | 256.5 |
| 5/23/2009 | 251.2 | 253.2 |
| 5/24/2009 | 251.2 | 253.1 |
| 5/25/2009 | 251.2 | 253.1 |
| 5/26/2009 | 251.3 | 253.2 |
| 5/27/2009 | 250.1 | 253.1 |
| 5/28/2009 | 251.3 | 252.9 |
| 5/29/2009 | 251.0 | 253.1 |
| 5/30/2009 | 251.0 | 252.9 |
| 5/31/2009 | 251.3 | 253.1 |
| 6/1/2009 | 250.5 | 253.2 |
| 6/2/2009 | 251.2 | 253.1 |
| 6/3/2009 | 251.6 | 253.8 |
| 6/4/2009 | 252.6 | 253.8 |
| 6/5/2009 | 252.4 | 257.0 |
| 6/6/2009 | 252.1 | 257.1 |
| 6/7/2009 | 252.3 | 254.0 |

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|-----------|-------|-------|
| 6/8/2009 | 252.0 | 254.2 |
| 6/9/2009 | 251.6 | 253.8 |
| 6/10/2009 | 251.3 | 253.8 |
| 6/11/2009 | 251.5 | 253.1 |
| 6/12/2009 | 251.0 | 253.1 |
| 6/13/2009 | 251.0 | 252.9 |
| 6/14/2009 | 251.0 | 252.9 |
| 6/15/2009 | 251.2 | 253.1 |
| 6/16/2009 | 251.5 | 253.2 |
| 6/17/2009 | 251.8 | 253.7 |
| 6/18/2009 | 252.0 | 254.0 |
| 6/19/2009 | 251.6 | 253.7 |
| 6/20/2009 | 251.8 | 253.8 |
| 6/21/2009 | 251.2 | 253.7 |
| 6/22/2009 | 251.0 | 252.9 |
| 6/23/2009 | 250.7 | 252.6 |
| 6/24/2009 | 251.0 | 253.2 |
| 6/25/2009 | 250.5 | 252.9 |
| 6/26/2009 | 251.2 | 252.9 |
| 6/27/2009 | 250.9 | 253.1 |
| 6/28/2009 | 251.0 | 252.9 |
| 6/29/2009 | 251.2 | 252.9 |
| 6/30/2009 | 251.2 | 289.0 |
| 7/1/2009 | 251.3 | 293.2 |
| 7/2/2009 | 251.3 | 293.6 |
| 7/3/2009 | 184.1 | 252.6 |
| 7/4/2009 | 172.8 | 235.8 |
| 7/5/2009 | 169.5 | 237.2 |
| 7/6/2009 | 201.7 | 256.2 |
| 7/7/2009 | 232.7 | 256.5 |
| 7/8/2009 | 228.4 | 257.0 |
| 7/9/2009 | 235.6 | 257.0 |
| 7/10/2009 | 227.0 | 284.3 |
| 7/11/2009 | 240.8 | 275.5 |
| 7/12/2009 | 225.1 | 274.7 |
| 7/13/2009 | 244.3 | 261.9 |
| 7/14/2009 | 251.2 | 253.1 |
| 7/15/2009 | 251.5 | 253.1 |
| 7/16/2009 | 251.3 | 253.1 |
| 7/17/2009 | 251.3 | 253.1 |
| 7/18/2009 | 251.6 | 253.2 |
| 7/19/2009 | 251.3 | 253.2 |
| 7/20/2009 | 251.5 | 253.2 |
| 7/21/2009 | 251.5 | 253.2 |
| 7/22/2009 | 251.8 | 253.4 |
| 7/23/2009 | 251.6 | 253.4 |
| 7/24/2009 | 251.3 | 253.4 |
| 7/25/2009 | 251.3 | 253.1 |
| 7/26/2009 | 251.0 | 252.9 |

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|-----------|-------|-------|
| 7/27/2009 | 250.9 | 252.9 |
| 7/28/2009 | 251.0 | 252.9 |
| 7/29/2009 | 250.7 | 252.6 |
| 7/30/2009 | 251.0 | 252.7 |
| 7/31/2009 | 251.0 | 252.7 |
| 8/1/2009 | 250.7 | 252.9 |
| 8/2/2009 | 250.7 | 252.3 |
| 8/3/2009 | 251.2 | 252.7 |
| 8/4/2009 | 251.3 | 252.9 |
| 8/5/2009 | 251.3 | 253.4 |
| 8/6/2009 | 251.3 | 253.4 |
| 8/7/2009 | 251.3 | 253.2 |
| 8/8/2009 | 251.0 | 253.2 |
| 8/9/2009 | 251.0 | 253.1 |
| 8/10/2009 | 251.0 | 252.9 |
| 8/11/2009 | 251.3 | 253.1 |
| 8/12/2009 | 251.2 | 253.2 |
| 8/13/2009 | 250.7 | 253.1 |
| 8/14/2009 | 251.0 | 253.1 |
| 8/15/2009 | 250.7 | 252.9 |
| 8/16/2009 | 250.7 | 252.9 |
| 8/17/2009 | 251.0 | 252.9 |
| 8/18/2009 | 251.0 | 252.9 |
| 8/19/2009 | 251.0 | 252.7 |
| 8/20/2009 | 251.3 | 252.9 |
| 8/21/2009 | 250.9 | 252.7 |
| 8/22/2009 | 251.2 | 253.1 |
| 8/23/2009 | 251.2 | 252.7 |
| 8/24/2009 | 250.9 | 252.7 |
| 8/25/2009 | 250.9 | 252.9 |
| 8/26/2009 | 249.8 | 289.8 |
| 8/27/2009 | 250.7 | 252.6 |
| 8/28/2009 | 250.9 | 252.6 |
| 8/29/2009 | 250.7 | 252.4 |
| 8/30/2009 | 250.7 | 252.6 |
| 8/31/2009 | 250.7 | 252.6 |
| 9/1/2009 | 250.5 | 252.4 |
| 9/2/2009 | 250.5 | 252.4 |
| 9/3/2009 | 250.5 | 252.3 |
| 9/4/2009 | 250.9 | 252.6 |
| 9/5/2009 | 250.4 | 252.1 |
| 9/6/2009 | 250.5 | 252.1 |
| 9/7/2009 | 250.4 | 252.3 |
| 9/8/2009 | 250.9 | 252.6 |
| 9/9/2009 | 250.7 | 252.4 |
| 9/10/2009 | 250.7 | 252.3 |
| 9/11/2009 | 250.7 | 252.4 |
| 9/12/2009 | 250.2 | 252.4 |
| 9/13/2009 | 250.2 | 252.1 |

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|------------|-------|-------|
| 9/14/2009 | 250.5 | 252.4 |
| 9/15/2009 | 250.7 | 252.6 |
| 9/16/2009 | 251.0 | 252.9 |
| 9/17/2009 | 251.0 | 252.9 |
| 9/18/2009 | 251.0 | 252.6 |
| 9/19/2009 | 250.5 | 252.7 |
| 9/20/2009 | 250.9 | 252.1 |
| 9/21/2009 | 250.5 | 252.6 |
| 9/22/2009 | 251.0 | 252.7 |
| 9/23/2009 | 250.7 | 252.7 |
| 9/24/2009 | 251.5 | 252.6 |
| 9/25/2009 | 251.3 | 252.7 |
| 9/26/2009 | 251.3 | 252.9 |
| 9/27/2009 | 250.9 | 252.9 |
| 9/28/2009 | 250.9 | 252.4 |
| 9/29/2009 | 251.8 | 261.4 |
| 9/30/2009 | 257.3 | 264.2 |
| 10/1/2009 | 250.1 | 263.1 |
| 10/2/2009 | 250.9 | 252.4 |
| 10/3/2009 | 250.9 | 252.6 |
| 10/4/2009 | 250.7 | 252.4 |
| 10/5/2009 | 250.7 | 252.6 |
| 10/6/2009 | 250.9 | 252.6 |
| 10/7/2009 | 250.7 | 252.3 |
| 10/8/2009 | 250.5 | 252.3 |
| 10/9/2009 | 250.7 | 253.1 |
| 10/10/2009 | 251.3 | 253.1 |
| 10/11/2009 | 250.5 | 252.6 |
| 10/12/2009 | 250.4 | 253.1 |
| 10/13/2009 | 251.3 | 253.1 |
| 10/14/2009 | 250.2 | 252.6 |
| 10/15/2009 | 250.4 | 260.1 |
| 10/16/2009 | 249.8 | 254.5 |
| 10/17/2009 | 250.5 | 254.6 |
| 10/18/2009 | 242.4 | 258.4 |
| 10/19/2009 | 252.7 | 266.2 |
| 10/20/2009 | 251.0 | 263.1 |
| 10/21/2009 | 251.0 | 254.3 |
| 10/22/2009 | 250.5 | 261.1 |
| 10/23/2009 | 251.2 | 255.3 |
| 10/24/2009 | 251.0 | 252.9 |
| 10/25/2009 | 251.0 | 256.2 |
| 10/26/2009 | 250.7 | 255.1 |
| 10/27/2009 | 250.2 | 255.1 |
| 10/28/2009 | 250.7 | 254.5 |
| 10/29/2009 | 251.2 | 253.2 |
| 10/30/2009 | 245.2 | 256.7 |
| 10/31/2009 | 252.7 | 258.5 |
| 11/1/2009 | 253.6 | 258.9 |

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|------------|-------|-------|
| 11/2/2009 | 251.1 | 265.4 |
| 11/3/2009 | 252.0 | 360.8 |
| 11/4/2009 | 350.3 | 353.4 |
| 11/5/2009 | 224.9 | 406.9 |
| 11/6/2009 | 251.3 | 264.9 |
| 11/7/2009 | 251.7 | 255.3 |
| 11/8/2009 | 253.3 | 255.3 |
| 11/9/2009 | 251.7 | 256.0 |
| 11/10/2009 | 252.0 | 255.0 |
| 11/11/2009 | 251.3 | 258.0 |
| 11/12/2009 | 253.0 | 263.2 |
| 11/13/2009 | 215.8 | 262.7 |
| 11/14/2009 | 243.7 | 255.5 |
| 11/15/2009 | 250.8 | 252.8 |
| 11/16/2009 | 250.8 | 253.0 |
| 11/17/2009 | 250.8 | 253.0 |
| 11/18/2009 | 250.8 | 256.7 |
| 11/19/2009 | 251.4 | 261.0 |
| 11/20/2009 | 250.9 | 258.5 |
| 11/21/2009 | 250.9 | 253.1 |
| 11/22/2009 | 250.2 | 253.0 |
| 11/23/2009 | 250.8 | 259.3 |
| 11/24/2009 | 250.3 | 252.7 |
| 11/25/2009 | 250.3 | 260.4 |
| 11/26/2009 | 251.7 | 262.6 |
| 11/27/2009 | 251.3 | 262.2 |
| 11/28/2009 | 247.0 | 257.5 |
| 11/29/2009 | 250.9 | 255.0 |
| 11/30/2009 | 250.5 | 258.6 |
| 12/1/2009 | 251.3 | 271.0 |
| 12/2/2009 | 251.3 | 266.0 |
| 12/3/2009 | 251.7 | 261.9 |
| 12/4/2009 | 251.3 | 263.5 |
| 12/5/2009 | 252.7 | 258.9 |
| 12/6/2009 | 251.9 | 271.2 |
| 12/7/2009 | 251.9 | 262.1 |
| 12/8/2009 | 251.9 | 264.8 |
| 12/9/2009 | 250.2 | 258.9 |
| 12/10/2009 | 253.6 | 264.3 |
| 12/11/2009 | 253.3 | 262.4 |
| 12/12/2009 | 253.0 | 264.4 |
| 12/13/2009 | 250.5 | 256.4 |
| 12/14/2009 | 249.8 | 255.8 |
| 12/15/2009 | 250.8 | 259.1 |
| 12/16/2009 | 249.5 | 289.2 |
| 12/17/2009 | 250.2 | 264.1 |
| 12/18/2009 | 250.2 | 258.6 |
| 12/19/2009 | 247.6 | 257.8 |
| 12/20/2009 | 252.7 | 262.4 |

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| | | |
|------------|-------|-------|
| 12/21/2009 | 248.7 | 260.4 |
| 12/22/2009 | 250.3 | 258.3 |
| 12/23/2009 | 250.9 | 261.3 |
| 12/24/2009 | 250.3 | 255.6 |
| 12/25/2009 | 251.7 | 266.5 |
| 12/26/2009 | 252.0 | 257.4 |
| 12/27/2009 | 253.6 | 257.7 |
| 12/28/2009 | 253.5 | 264.3 |
| 12/29/2009 | 255.8 | 262.2 |
| 12/30/2009 | 257.7 | 262.2 |
| 12/31/2009 | 257.4 | 261.6 |
| 1/1/2010 | 254.2 | 263.0 |
| 1/2/2010 | 245.9 | 271.7 |
| 1/3/2010 | 241.7 | 270.4 |
| 1/4/2010 | 252.7 | 291.3 |
| 1/5/2010 | 257.8 | 274.0 |
| 1/6/2010 | 257.1 | 262.6 |
| 1/7/2010 | 256.3 | 262.4 |
| 1/8/2010 | 259.1 | 300.8 |
| 1/9/2010 | 259.3 | 298.0 |
| 1/10/2010 | 246.9 | 284.1 |
| 1/11/2010 | 261.9 | 284.8 |
| 1/12/2010 | 251.4 | 276.5 |
| 1/13/2010 | 247.2 | 262.1 |
| 1/14/2010 | 250.3 | 259.1 |
| 1/15/2010 | 251.4 | 261.3 |
| 1/16/2010 | 252.4 | 255.3 |
| 1/17/2010 | 251.4 | 255.2 |
| 1/18/2010 | 247.0 | 259.1 |
| 1/19/2010 | 246.5 | 259.1 |
| 1/20/2010 | 251.3 | 263.2 |
| 1/21/2010 | 252.7 | 262.6 |
| 1/22/2010 | 252.2 | 255.3 |
| 1/23/2010 | 251.6 | 254.2 |
| 1/24/2010 | 251.6 | 254.7 |
| 1/25/2010 | 253.6 | 267.3 |
| 1/26/2010 | 255.3 | 260.4 |
| 1/27/2010 | 251.1 | 261.3 |
| 1/28/2010 | 246.1 | 258.9 |
| 1/29/2010 | 254.6 | 288.1 |
| 1/30/2010 | 255.5 | 260.2 |
| 1/31/2010 | 253.6 | 263.3 |
| 2/1/2010 | 250.3 | 283.4 |
| 2/2/2010 | 253.1 | 259.3 |
| 2/3/2010 | 252.7 | 260.8 |
| 2/4/2010 | 250.9 | 261.6 |
| 2/5/2010 | 250.2 | 259.1 |
| 2/6/2010 | 250.5 | 254.9 |
| 2/7/2010 | 252.5 | 269.6 |

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|-----------|-------|-------|
| 2/8/2010 | 242.0 | 297.9 |
| 2/9/2010 | 257.8 | 264.6 |
| 2/10/2010 | 242.6 | 290.8 |
| 2/11/2010 | 251.9 | 262.7 |
| 2/12/2010 | 252.0 | 292.5 |
| 2/13/2010 | 229.4 | 291.7 |
| 2/14/2010 | 252.4 | 261.9 |
| 2/15/2010 | 248.0 | 286.9 |
| 2/16/2010 | 254.4 | 262.7 |
| 2/17/2010 | 253.3 | 264.4 |
| 2/18/2010 | 249.8 | 267.6 |
| 2/19/2010 | 249.7 | 259.4 |
| 2/20/2010 | 251.7 | 258.6 |
| 2/21/2010 | 252.0 | 256.3 |
| 2/22/2010 | 252.4 | 257.8 |
| 2/23/2010 | 250.3 | 258.9 |
| 2/24/2010 | 252.8 | 260.7 |
| 2/25/2010 | 252.2 | 263.2 |
| 2/26/2010 | 250.5 | 261.6 |
| 2/27/2010 | 246.2 | 258.5 |
| 2/28/2010 | 251.4 | 256.7 |
| 3/1/2010 | 250.0 | 258.9 |
| 3/2/2010 | 250.9 | 259.3 |
| 3/3/2010 | 253.5 | 262.4 |
| 3/4/2010 | 250.7 | 262.3 |
| 3/5/2010 | 245.5 | 263.7 |
| 3/6/2010 | 246.8 | 262.8 |
| 3/7/2010 | 251.3 | 262.9 |
| 3/8/2010 | 248.2 | 257.4 |
| 3/9/2010 | 248.7 | 254.6 |
| 3/10/2010 | 250.7 | 252.7 |
| 3/11/2010 | 250.7 | 257.1 |
| 3/12/2010 | 250.2 | 252.7 |
| 3/13/2010 | 250.1 | 252.1 |
| 3/14/2010 | 249.8 | 255.4 |
| 3/15/2010 | 251.0 | 258.5 |
| 3/16/2010 | 250.5 | 257.1 |
| 3/17/2010 | 250.2 | 254.6 |
| 3/18/2010 | 250.5 | 257.6 |
| 3/19/2010 | 250.5 | 261.0 |
| 3/20/2010 | 250.2 | 253.1 |
| 3/21/2010 | 251.0 | 253.2 |
| 3/22/2010 | 250.4 | 256.2 |
| 3/23/2010 | 250.9 | 257.9 |
| 3/24/2010 | 249.8 | 254.0 |
| 3/25/2010 | 250.7 | 252.9 |
| 3/26/2010 | 250.1 | 258.7 |
| 3/27/2010 | 249.8 | 255.1 |
| 3/28/2010 | 250.7 | 254.9 |

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|-----------|-------|-------|
| 3/29/2010 | 250.2 | 260.4 |
| 3/30/2010 | 250.7 | 260.1 |
| 3/31/2010 | 249.9 | 254.0 |
| 4/1/2010 | 251.3 | 256.0 |
| 4/2/2010 | 251.8 | 253.7 |
| 4/3/2010 | 252.1 | 253.7 |
| 4/4/2010 | 251.5 | 253.7 |
| 4/5/2010 | 251.8 | 253.7 |
| 4/6/2010 | 251.3 | 253.5 |
| 4/7/2010 | 251.6 | 253.1 |
| 4/8/2010 | 251.5 | 253.1 |
| 4/9/2010 | 251.0 | 253.1 |
| 4/10/2010 | 250.4 | 252.9 |
| 4/11/2010 | 250.7 | 252.9 |
| 4/12/2010 | 251.2 | 253.1 |
| 4/13/2010 | 251.6 | 253.4 |
| 4/14/2010 | 251.8 | 253.5 |
| 4/15/2010 | 251.8 | 253.7 |
| 4/16/2010 | 251.8 | 253.5 |
| 4/17/2010 | 251.8 | 253.5 |
| 4/18/2010 | 250.9 | 253.4 |
| 4/19/2010 | 251.0 | 253.5 |
| 4/20/2010 | 251.6 | 253.4 |
| 4/21/2010 | 251.5 | 253.4 |
| 4/22/2010 | 251.5 | 253.5 |
| 4/23/2010 | 251.6 | 253.5 |
| 4/24/2010 | 251.3 | 253.1 |
| 4/25/2010 | 251.3 | 253.1 |
| 4/26/2010 | 251.3 | 253.1 |
| 4/27/2010 | 250.9 | 252.9 |
| 4/28/2010 | 250.2 | 254.2 |
| 4/29/2010 | 250.4 | 253.1 |
| 4/30/2010 | 251.2 | 253.2 |
| 5/1/2010 | 251.6 | 252.9 |
| 5/2/2010 | 251.8 | 307.0 |
| 5/3/2010 | 251.5 | 307.7 |
| 5/4/2010 | 251.0 | 259.8 |
| 5/5/2010 | 251.5 | 253.1 |
| 5/6/2010 | 251.8 | 253.1 |
| 5/7/2010 | 248.4 | 288.5 |
| 5/8/2010 | 248.8 | 305.0 |
| 5/9/2010 | 246.3 | 293.9 |
| 5/10/2010 | 247.4 | 285.5 |
| 5/11/2010 | 239.7 | 285.5 |
| 5/12/2010 | 0.0 | 313.1 |
| 5/13/2010 | 242.9 | 292.6 |
| 5/14/2010 | 213.7 | 278.9 |
| 5/15/2010 | 239.6 | 286.0 |
| 5/16/2010 | 240.5 | 301.7 |

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|-----------|-------|-------|
| 5/17/2010 | 231.3 | 307.0 |
| 5/18/2010 | 243.0 | 308.0 |
| 5/19/2010 | 251.3 | 291.2 |
| 5/20/2010 | 238.6 | 288.7 |
| 5/21/2010 | 248.2 | 284.0 |
| 5/22/2010 | 238.6 | 305.0 |
| 5/23/2010 | 247.9 | 290.4 |
| 5/24/2010 | 244.9 | 278.9 |
| 5/25/2010 | 251.5 | 292.6 |
| 5/26/2010 | 247.3 | 287.9 |
| 5/27/2010 | 250.4 | 275.8 |
| 5/28/2010 | 251.6 | 253.2 |
| 5/29/2010 | 239.6 | 285.8 |
| 5/30/2010 | 251.2 | 285.5 |
| 5/31/2010 | 239.1 | 283.2 |
| 6/1/2010 | 246.0 | 316.0 |
| 6/2/2010 | 252.1 | 253.7 |
| 6/3/2010 | 252.0 | 253.7 |
| 6/4/2010 | 252.0 | 253.7 |
| 6/5/2010 | 252.0 | 253.7 |
| 6/6/2010 | 252.1 | 253.5 |
| 6/7/2010 | 241.4 | 310.0 |
| 6/8/2010 | 251.5 | 253.4 |
| 6/9/2010 | 251.8 | 253.2 |
| 6/10/2010 | 248.4 | 254.0 |
| 6/11/2010 | 237.7 | 320.2 |
| 6/12/2010 | 251.6 | 253.2 |
| 6/13/2010 | 251.6 | 253.1 |
| 6/14/2010 | 232.2 | 309.9 |
| 6/15/2010 | 252.3 | 262.8 |
| 6/16/2010 | 252.3 | 253.8 |
| 6/17/2010 | 252.4 | 254.2 |
| 6/18/2010 | 251.8 | 254.2 |
| 6/19/2010 | 251.6 | 253.4 |
| 6/20/2010 | 251.5 | 253.4 |
| 6/21/2010 | 251.3 | 276.0 |
| 6/22/2010 | 252.1 | 261.2 |
| 6/23/2010 | 252.4 | 271.3 |
| 6/24/2010 | 251.6 | 258.1 |
| 6/25/2010 | 251.6 | 280.8 |
| 6/26/2010 | 244.7 | 288.2 |
| 6/27/2010 | 241.6 | 294.3 |
| 6/28/2010 | 249.8 | 289.8 |
| 6/29/2010 | 251.8 | 290.2 |
| 6/30/2010 | 251.8 | 253.4 |
| 7/1/2010 | 251.2 | 253.4 |
| 7/2/2010 | 251.2 | 252.9 |
| 7/3/2010 | 251.0 | 252.9 |
| 7/4/2010 | 251.0 | 252.7 |

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| | | |
|-----------|-------|-------|
| 7/5/2010 | 251.0 | 253.1 |
| 7/6/2010 | 251.5 | 253.4 |
| 7/7/2010 | 251.5 | 253.2 |
| 7/8/2010 | 251.2 | 252.9 |
| 7/9/2010 | 252.0 | 253.4 |
| 7/10/2010 | 251.8 | 253.4 |
| 7/11/2010 | 251.6 | 253.4 |
| 7/12/2010 | 251.6 | 253.1 |
| 7/13/2010 | 251.8 | 253.2 |
| 7/14/2010 | 251.5 | 253.4 |
| 7/15/2010 | 251.3 | 252.9 |
| 7/16/2010 | 251.3 | 253.2 |
| 7/17/2010 | 251.6 | 253.2 |
| 7/18/2010 | 251.6 | 253.2 |
| 7/19/2010 | 251.6 | 253.2 |
| 7/20/2010 | 251.8 | 253.4 |
| 7/21/2010 | 251.8 | 253.2 |
| 7/22/2010 | 251.6 | 253.4 |
| 7/23/2010 | 251.3 | 253.1 |
| 7/24/2010 | 251.5 | 253.1 |
| 7/25/2010 | 251.5 | 253.2 |
| 7/26/2010 | 251.6 | 253.4 |
| 7/27/2010 | 251.8 | 253.2 |
| 7/28/2010 | 251.5 | 253.2 |
| 7/29/2010 | 251.8 | 253.2 |
| 7/30/2010 | 251.8 | 253.4 |
| 7/31/2010 | 251.6 | 253.4 |
| 8/1/2010 | 251.3 | 253.4 |
| 8/2/2010 | 251.5 | 253.1 |
| 8/3/2010 | 251.3 | 253.2 |
| 8/4/2010 | 252.0 | 292.9 |
| 8/5/2010 | 252.1 | 253.8 |
| 8/6/2010 | 252.0 | 253.5 |
| 8/7/2010 | 251.6 | 253.4 |
| 8/8/2010 | 239.6 | 262.0 |
| 8/9/2010 | 251.6 | 253.5 |
| 8/10/2010 | 251.5 | 253.5 |
| 8/11/2010 | 251.5 | 253.4 |
| 8/12/2010 | 252.0 | 253.5 |
| 8/13/2010 | 251.8 | 253.4 |
| 8/14/2010 | 251.8 | 253.4 |
| 8/15/2010 | 251.5 | 253.4 |
| 8/16/2010 | 252.0 | 253.4 |
| 8/17/2010 | 252.0 | 302.2 |
| 8/18/2010 | 252.0 | 253.5 |
| 8/19/2010 | 252.1 | 253.5 |
| 8/20/2010 | 252.1 | 253.4 |
| 8/21/2010 | 252.0 | 253.4 |
| 8/22/2010 | 251.6 | 253.4 |

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|------------|-------|-------|
| 8/23/2010 | 252.1 | 253.5 |
| 8/24/2010 | 251.8 | 253.4 |
| 8/25/2010 | 251.6 | 253.4 |
| 8/26/2010 | 252.1 | 253.5 |
| 8/27/2010 | 252.3 | 253.4 |
| 8/28/2010 | 252.0 | 253.4 |
| 8/29/2010 | 252.0 | 253.5 |
| 8/30/2010 | 252.1 | 253.4 |
| 8/31/2010 | 252.1 | 253.8 |
| 9/1/2010 | 252.0 | 253.5 |
| 9/2/2010 | 251.6 | 253.7 |
| 9/3/2010 | 252.1 | 253.5 |
| 9/4/2010 | 251.6 | 253.5 |
| 9/5/2010 | 251.6 | 253.1 |
| 9/6/2010 | 251.5 | 253.2 |
| 9/7/2010 | 252.0 | 253.4 |
| 9/8/2010 | 251.6 | 286.8 |
| 9/9/2010 | 251.5 | 252.9 |
| 9/10/2010 | 251.6 | 252.9 |
| 9/11/2010 | 251.6 | 252.9 |
| 9/12/2010 | 251.5 | 252.9 |
| 9/13/2010 | 251.8 | 253.2 |
| 9/14/2010 | 252.0 | 253.2 |
| 9/15/2010 | 252.0 | 253.4 |
| 9/16/2010 | 252.0 | 253.4 |
| 9/17/2010 | 251.6 | 253.4 |
| 9/18/2010 | 251.3 | 253.1 |
| 9/19/2010 | 251.3 | 252.9 |
| 9/20/2010 | 251.3 | 253.4 |
| 9/21/2010 | 251.5 | 253.4 |
| 9/22/2010 | 251.6 | 253.4 |
| 9/23/2010 | 251.2 | 253.4 |
| 9/24/2010 | 251.5 | 253.4 |
| 9/25/2010 | 251.3 | 253.5 |
| 9/26/2010 | 251.5 | 252.9 |
| 9/27/2010 | 251.2 | 257.8 |
| 9/28/2010 | 251.8 | 253.8 |
| 9/29/2010 | 252.4 | 254.0 |
| 9/30/2010 | 247.7 | 254.0 |
| 10/1/2010 | 252.6 | 253.8 |
| 10/2/2010 | 252.4 | 253.8 |
| 10/3/2010 | 248.0 | 253.8 |
| 10/4/2010 | 252.0 | 253.8 |
| 10/5/2010 | 251.6 | 262.8 |
| 10/6/2010 | 253.1 | 265.1 |
| 10/7/2010 | 249.8 | 262.3 |
| 10/8/2010 | 250.7 | 252.4 |
| 10/9/2010 | 250.9 | 252.4 |
| 10/10/2010 | 250.9 | 253.1 |

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| | | |
|------------|-------|-------|
| 10/11/2010 | 252.0 | 253.5 |
| 10/12/2010 | 251.8 | 253.4 |
| 10/13/2010 | 251.5 | 253.1 |
| 10/14/2010 | 251.5 | 253.4 |
| 10/15/2010 | 250.9 | 253.2 |
| 10/16/2010 | 250.9 | 252.4 |
| 10/17/2010 | 250.9 | 252.4 |
| 10/18/2010 | 251.3 | 252.7 |
| 10/19/2010 | 251.8 | 254.3 |
| 10/20/2010 | 252.7 | 254.3 |
| 10/21/2010 | 252.1 | 254.0 |
| 10/22/2010 | 251.5 | 254.6 |
| 10/23/2010 | 250.7 | 252.6 |
| 10/24/2010 | 250.9 | 252.3 |
| 10/25/2010 | 251.0 | 252.3 |
| 10/26/2010 | 251.0 | 275.4 |
| 10/27/2010 | 249.5 | 252.9 |
| 10/28/2010 | 249.1 | 293.2 |
| 10/29/2010 | 249.8 | 255.1 |
| 10/30/2010 | 248.0 | 254.9 |
| 10/31/2010 | 250.4 | 252.6 |
| 11/1/2010 | 249.9 | 252.4 |
| 11/2/2010 | 247.1 | 254.6 |
| 11/3/2010 | 246.9 | 265.9 |
| 11/4/2010 | 248.2 | 263.4 |
| 11/5/2010 | 247.4 | 254.9 |
| 11/6/2010 | 254.0 | 262.3 |
| 11/7/2010 | 251.6 | 257.3 |
| 11/8/2010 | 252.0 | 261.5 |
| 11/9/2010 | 252.3 | 259.0 |
| 11/10/2010 | 251.3 | 257.3 |
| 11/11/2010 | 251.3 | 258.4 |
| 11/12/2010 | 250.7 | 255.1 |
| 11/13/2010 | 251.2 | 253.8 |
| 11/14/2010 | 252.1 | 259.2 |
| 11/15/2010 | 251.5 | 262.8 |
| 11/16/2010 | 247.9 | 254.3 |
| 11/17/2010 | 252.6 | 259.0 |
| 11/18/2010 | 254.2 | 259.2 |
| 11/19/2010 | 252.3 | 258.4 |
| 11/20/2010 | 246.2 | 253.2 |
| 11/21/2010 | 250.2 | 256.2 |
| 11/22/2010 | 251.3 | 252.6 |
| 11/23/2010 | 252.3 | 256.4 |
| 11/24/2010 | 250.1 | 268.4 |
| 11/25/2010 | 250.5 | 252.3 |
| 11/26/2010 | 250.5 | 274.6 |
| 11/27/2010 | 252.0 | 256.7 |
| 11/28/2010 | 251.5 | 259.8 |

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|------------|-------|-------|
| 11/29/2010 | 251.8 | 257.6 |
| 11/30/2010 | 250.9 | 256.8 |
| 12/1/2010 | 254.3 | 260.6 |
| 12/2/2010 | 254.2 | 259.8 |
| 12/3/2010 | 251.2 | 256.4 |
| 12/4/2010 | 252.7 | 258.4 |
| 12/5/2010 | 256.2 | 259.5 |
| 12/6/2010 | 255.3 | 261.5 |
| 12/7/2010 | 255.7 | 260.9 |
| 12/8/2010 | 255.3 | 276.6 |
| 12/9/2010 | 246.2 | 285.4 |
| 12/10/2010 | 254.8 | 257.5 |
| 12/11/2010 | 252.3 | 256.4 |
| 12/12/2010 | 252.1 | 259.8 |
| 12/13/2010 | 256.8 | 286.5 |
| 12/14/2010 | 256.4 | 290.0 |
| 12/15/2010 | 254.6 | 291.4 |
| 12/16/2010 | 258.1 | 273.6 |
| 12/17/2010 | 254.5 | 259.5 |
| 12/18/2010 | 248.4 | 259.2 |
| 12/19/2010 | 249.1 | 258.1 |
| 12/20/2010 | 252.1 | 256.2 |
| 12/21/2010 | 251.8 | 256.4 |
| 12/22/2010 | 251.8 | 261.5 |
| 12/23/2010 | 252.4 | 258.9 |
| 12/24/2010 | 252.4 | 257.6 |
| 12/25/2010 | 254.8 | 257.6 |
| 12/26/2010 | 254.5 | 260.1 |
| 12/27/2010 | 254.2 | 261.4 |
| 12/28/2010 | 251.6 | 258.9 |
| 12/29/2010 | 251.5 | 263.0 |
| 12/30/2010 | 250.7 | 254.2 |
| 12/31/2010 | 250.5 | 252.9 |
| 1/1/2011 | 250.7 | 257.8 |
| 1/2/2011 | 252.9 | 260.6 |
| 1/3/2011 | 253.7 | 259.5 |
| 1/4/2011 | 255.4 | 258.4 |
| 1/5/2011 | 251.3 | 284.8 |
| 1/6/2011 | 246.3 | 260.8 |
| 1/7/2011 | 249.1 | 263.1 |
| 1/8/2011 | 253.8 | 274.6 |
| 1/9/2011 | 256.8 | 287.9 |
| 1/10/2011 | 256.0 | 276.1 |
| 1/11/2011 | 252.9 | 263.1 |
| 1/12/2011 | 250.2 | 289.0 |
| 1/13/2011 | 257.6 | 289.5 |
| 1/14/2011 | 248.0 | 263.0 |
| 1/15/2011 | 249.1 | 255.1 |
| 1/16/2011 | 246.9 | 260.6 |

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| | | |
|-----------|-------|-------|
| 1/17/2011 | 251.2 | 260.6 |
| 1/18/2011 | 250.7 | 253.2 |
| 1/19/2011 | 252.3 | 264.8 |
| 1/20/2011 | 255.9 | 259.3 |
| 1/21/2011 | 254.0 | 286.5 |
| 1/22/2011 | 254.2 | 261.7 |
| 1/23/2011 | 253.4 | 255.9 |
| 1/24/2011 | 253.8 | 262.6 |
| 1/25/2011 | 252.0 | 257.6 |
| 1/26/2011 | 252.1 | 279.3 |
| 1/27/2011 | 258.2 | 263.4 |
| 1/28/2011 | 249.3 | 260.8 |
| 1/29/2011 | 250.4 | 258.2 |
| 1/30/2011 | 249.6 | 259.0 |
| 1/31/2011 | 252.9 | 259.5 |
| 2/1/2011 | 250.1 | 259.5 |
| 2/2/2011 | 251.2 | 260.9 |
| 2/3/2011 | 250.4 | 261.9 |
| 2/4/2011 | 251.6 | 261.5 |
| 2/5/2011 | 251.2 | 258.4 |
| 2/6/2011 | 251.5 | 259.2 |
| 2/7/2011 | 251.6 | 262.3 |
| 2/8/2011 | 251.3 | 268.3 |
| 2/9/2011 | 254.5 | 278.0 |
| 2/10/2011 | 251.6 | 275.4 |
| 2/11/2011 | 247.6 | 263.7 |
| 2/12/2011 | 245.5 | 257.3 |
| 2/13/2011 | 249.8 | 255.7 |
| 2/14/2011 | 249.5 | 254.9 |
| 2/15/2011 | 249.5 | 258.7 |
| 2/16/2011 | 250.1 | 256.7 |
| 2/17/2011 | 250.5 | 252.9 |
| 2/18/2011 | 250.4 | 252.3 |
| 2/19/2011 | 250.7 | 259.5 |
| 2/20/2011 | 252.0 | 257.5 |
| 2/21/2011 | 250.5 | 255.9 |
| 2/22/2011 | 246.6 | 258.9 |
| 2/23/2011 | 249.6 | 259.2 |
| 2/24/2011 | 250.2 | 253.2 |
| 2/25/2011 | 248.5 | 254.5 |
| 2/26/2011 | 249.6 | 257.6 |
| 2/27/2011 | 250.7 | 257.0 |
| 2/28/2011 | 250.1 | 257.5 |
| 3/1/2011 | 252.0 | 260.4 |
| 3/2/2011 | 250.4 | 257.6 |
| 3/3/2011 | 245.1 | 258.2 |
| 3/4/2011 | 250.2 | 252.4 |
| 3/5/2011 | 249.9 | 252.6 |
| 3/6/2011 | 249.6 | 264.7 |

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| | | |
|-----------|-------|-------|
| 3/7/2011 | 250.1 | 263.1 |
| 3/8/2011 | 250.4 | 263.3 |
| 3/9/2011 | 250.5 | 253.8 |
| 3/10/2011 | 251.5 | 259.2 |
| 3/11/2011 | 250.1 | 257.3 |
| 3/12/2011 | 250.7 | 257.8 |
| 3/13/2011 | 249.1 | 252.4 |
| 3/14/2011 | 250.4 | 254.9 |
| 3/15/2011 | 251.2 | 256.4 |
| 3/16/2011 | 250.5 | 256.7 |
| 3/17/2011 | 250.5 | 257.1 |
| 3/18/2011 | 251.5 | 253.4 |
| 3/19/2011 | 250.4 | 252.7 |
| 3/20/2011 | 249.9 | 253.8 |
| 3/21/2011 | 250.7 | 252.1 |
| 3/22/2011 | 250.7 | 252.3 |
| 3/23/2011 | 250.7 | 252.1 |
| 3/24/2011 | 250.4 | 261.2 |
| 3/25/2011 | 250.1 | 261.7 |
| 3/26/2011 | 249.9 | 254.5 |
| 3/27/2011 | 250.2 | 259.0 |
| 3/28/2011 | 252.3 | 258.2 |
| 3/29/2011 | 250.9 | 257.5 |
| 3/30/2011 | 251.2 | 261.1 |
| 3/31/2011 | 250.9 | 259.5 |
| 4/1/2011 | 251.3 | 257.6 |
| 4/2/2011 | 251.3 | 261.2 |
| 4/3/2011 | 250.2 | 252.6 |
| 4/4/2011 | 251.8 | 252.9 |
| 4/5/2011 | 251.3 | 264.1 |
| 4/6/2011 | 250.1 | 254.9 |
| 4/7/2011 | 251.3 | 254.2 |
| 4/8/2011 | 250.5 | 253.2 |
| 4/9/2011 | 250.5 | 252.3 |
| 4/10/2011 | 250.4 | 252.1 |
| 4/11/2011 | 250.7 | 252.1 |
| 4/12/2011 | 250.5 | 252.1 |
| 4/13/2011 | 249.0 | 251.8 |
| 4/14/2011 | 249.8 | 252.0 |
| 4/15/2011 | 250.2 | 253.4 |
| 4/16/2011 | 251.5 | 256.0 |
| 4/17/2011 | 250.5 | 265.5 |
| 4/18/2011 | 250.4 | 253.1 |
| 4/19/2011 | 251.0 | 253.1 |
| 4/20/2011 | 251.0 | 254.8 |
| 4/21/2011 | 250.5 | 260.6 |
| 4/22/2011 | 250.2 | 252.0 |
| 4/23/2011 | 250.7 | 252.7 |
| 4/24/2011 | 250.1 | 252.1 |

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| | | |
|-----------|-------|-------|
| 4/25/2011 | 251.5 | 254.2 |
| 4/26/2011 | 250.9 | 252.3 |
| 4/27/2011 | 250.7 | 269.5 |
| 4/28/2011 | 239.2 | 266.6 |
| 4/29/2011 | 249.9 | 252.1 |
| 4/30/2011 | 250.2 | 252.3 |

LOUISVILLE GAS AND COMPANY

**Response to Commission Staff's Second Request for Information
Dated October 13, 2017**

Case No. 2017-00119

Question No. 3

Witness: Lonnie E. Bellar

- Q-3. Refer to the Commission Staff Incident Investigation Report dated September 17, 2017 ("Report"), which is attached as the Appendix to the Commission's March 15, 2017 Order in this case. Table 79.2 and Drawing Number 1319-A, which set forth requirements from LG&E's Gas Operating, Maintenance and Inspection Procedures ("GOM&I") for the installation of "harnessing" sections of pipe, are attached to the Report at Attachment C. Confirm that these requirements were in effect at the time the mechanical coupling system that failed on September 17, 2014, was installed. If these requirements were not then in effect, provide the manual of operating and maintenance procedures in effect at the time the coupling was installed.
- A-3. The requirements in Table 79.2 and Drawing Number D-8 which are attached to the Appendix to the Commission's March 15, 2017 Order in this case are believed to have been in effect when the mechanical coupling system that failed on September 17, 2014 was installed.

LOUISVILLE GAS AND COMPANY

**Response to Commission Staff's Second Request for Information
Dated October 13, 2017**

Case No. 2017-00119

Question No. 4

Witness: Lonnie E. Bellar

- Q-4.** Provide the written procedures for the installation of mechanical coupling systems that were in effect at the time LG&E installed each of the other mechanical couplings on the Ballardsville pipeline system.
- A-4.** The procedures believed to be in effect at the time of each coupling installation are listed below. See the attachments:

| Pipeline Diameter | Coupling Installation Date | Coupling Removal Date | Procedure File Name |
|--------------------------|-----------------------------------|---------------------------------|--|
| 12-inch | 1/5/1998 | 9/21/2014 | Typical Harness Installation Figure D-8 Effective 03-20-1983 |
| 8-inch | 10/14/1988 | 9/21/2014 | Typical Harness Installation Figure D-8 Effective 03-20-1983 |
| 8-inch | 10/14/1988 | 9/21/2014 | Typical Harness Installation Figure D-8 Effective 03-20-1983 |
| 8-inch | 12/22/1988 | 9/17/2015 | Typical Harness Installation Figure D-8 Effective 03-20-1983 |
| 8-inch | 12/22/1988 | 9/17/2015 | Typical Harness Installation Figure D-8 Effective 03-20-1983 |
| 2-inch | 5/16/1973 | Abandoned in place 10/5/2016 | Coupling Standard Revision 01-09-68 |

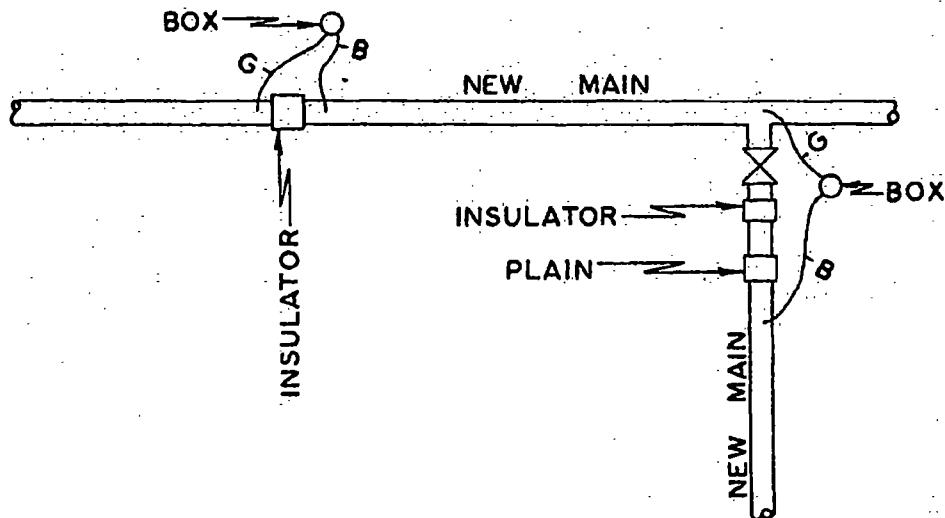
2.21.2 Couplings

- a. Dresser couplings must be indicated on the main reports. Also it must be stated whether the coupling is or is not harnessed. The words "harnessed" or "not harnessed" should be used.
- b. The storeroom has in stock the new non-insulating Dresser 700 posi-hold couplings in sizes 4" and 6". These couplings can be used in place of our standard couplings on low, elevated and medium pressure lines. The 700's do not require harnessing and cannot be dismantled after installation. It is important that these couplings be specified by name on main reports.
- c. Our standard Dresser couplings are classified as plain or insulating types.
 1. Plain Dresser couplings are now supplied with an Armored Type Gasket on each end to provide electrical continuity to a pipe system and make the barrel of the coupling a part of the same system.
 2. Insulating Dresser couplings are now supplied with an Insulating Type Gasket on one end and an Armored Type Gasket on the other end. This is to insulate one pipe system from another and make the barrel of the coupling a part of the protected system.
- d. Use the pre-coated coupling, if available, on sizes above 2".
- e. See pages 2033 and 2034 for proper installation.

| ORIGINAL | REVISIONS | | | | | PAGE |
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| 7-1-65 | 1-9-68 | | | | | 2031 |

2.2121 Installation

- a. All Dresser couplings should be installed according to Dresser specifications. A torque wrench should be used to insure uniform tightness of the bolts. On the Stab-Clad, pre-coated couplings, use 80 foot-pounds torque. On other couplings with 5/8 inch bolts use 75 foot-pounds, and on 3/4 inch bolts, use 90 foot-pounds. Do not confuse these with the required torque on flange bolts.
- b. A new or protected line being tied into a bare or unprotected line, the Armored Gasket should be placed on the end toward the protected pipe.
- c. A new or protected line being tied into another protected line, place the Armored Gasket on the end toward the new line. (This is to keep the method of installation uniform.)
- d. Test leads are to be installed at insulated couplers and the couplers are to be tested with an instrument provided by the Corrosion Section. The black lead goes on the main that is being installed or tied-in, with the green lead on the other side of the coupler. Both wires are to be left in a test box. A sketch of the installation of the lead box, same as for anodes, is to be made giving the location of the black wire.
- e. For testing, the black lead on the volt meter is attached to the black lead on the main and the red lead to the green wire. A reading on the meter indicates a good coupler. If the meter hand moves below 0 then switch test leads. No reading on meter indicates that either the coupler is shorted or the mains on both sides of the coupler have equal protection. If in doubt call the corrosion crew.
- f. Sketch showing lead wires installed on main.



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| 7-1-65 | | | | | | | 2032 |

2.2121.1 Plain Insulated Dresser Couplings (above 2" size)

- a. Remove all coatings on the pipe from under the coupling to insure bare metal contact.
- b. Install coupling.
- c. Heat pipe and coupling to dry away moisture.
(Do not burn insulator).
- d. Brush clean.
- e. Apply primer to coupling, pipe and harness.
- f. Apply Roskote to coupling and harness.
- g. Wrap pipe next to the coupling.
- h. Coat coupling and harness with second coat of Roskote, after first coat dries.

2.2121.2 Plain non-insulated Dresser Couplings
(above 2" size)

- a. Remove all coatings on the pipe from under the coupling to insure bare metal contact.
- b. Install coupling.
- c. Heat pipe and coupling to dry away all moisture.
- d. Brush clean.
- e. Apply primer to coupling, pipe and harness.
- f. Apply Roskote to coupling and harness.
- g. Wrap pipe next to the coupling.
- h. Apply second coat of Roskote to coupling and harness, after first coat dries.
- i. Any plain Dresser Coupling without an Armored Gasket is to be strapped with a rod or wire.

2.2121.3 Standard and Insulating Pre-coated Couplings

- a. Remove all coatings on the pipe from under the coupling to insure bare metal contact.
- b. Install coupling.
- c. Apply primer and Roskote to harness.
- d. Roskote any skinned places on coupling.

| ORIGINAL | REVISIONS | | | | | | PAGE |
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| 7-1-65 | 1-9-68 | | | | | | 2033 |

- e. Apply second coat of Roskote to harness and skinned places after first coat dries.

2.2121.4 Stab-Clad Dresser Couplings

- a. Remove all coatings on the pipe from under the coupling to insure bare metal contact.
- b. Install coupling - do not try to disassemble.
- c. Apply primer and Roskote to harness.
- d. Roskote any skinned places on coupling.
- e. Apply second coat of Roskote to harness and skinned places after first coat dries.

2.2121.5 Couplings 2" and smaller

- a. Remove all coatings on the pipe from under the coupling to insure bare metal contact.
- b. Install coupling.
- c. Brush clean.
- d. Apply primer.
- e. Wrap with tapecoat.

| ORIGINAL | REVISIONS | | | | | PAGE |
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| 7-1-65 | 1-9-68 | | | | | 2034 |

2.21.3 Coupling Harness

2.213.1 Rules for Harnessing Dresser Couplings

2.213.1.1 Low, Elevated and Medium Pressure Couplings of size 8 inch and smaller

- a. Any coupling which will be within 25 feet of a dead end should be harnessed.
- b. Couplings on Low Pressure mains of size 8 inch and smaller do not require a harness, except within 25 feet of a dead end.
- c. On Elevated and Medium Pressure 2, 4, 6 and 8 inch mains, couplings within 25 feet of an elbow, the lateral side of a tee, a valve, a reducer, another coupling or a dead end, must be harnessed.
- d. If at any time there is any doubt as to whether a specific coupling requires a harness, then it should be harnessed.
- e. See the proper drawing for the installation method.

NOTE: The above will not apply to Dresser 700 posit-hold couplings since they do not require harnessing.

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| 7-1-65 | 1-9-68 | | | | | | 2035 |

2.213.1 Types of Harnesses in Stereoom

2.2132.1 Lightweight .229 Type Harness

- a. Requires two harness rods for installations as listed below.
- b. To be used on all 6" and 8" couplings regardless of line pressure.
- c. Use on all 2" and 4" high pressure couplings.
- d. See drawing on page 2038 for proper installation method.

2.2132.2 Heavyweight .375 Type Harness

- a. To be used on all 10" and larger size couplings, regardless of line pressure.
- b. The following number of harness rods should be used with the .375 Harness.

| SIZE | NUMBER |
|------|--------|
| 10" | 4 |
| 12" | 4 |
| 16" | 6 |
| 20" | 6 |

- c. See drawing on page 2037 for proper installation method.

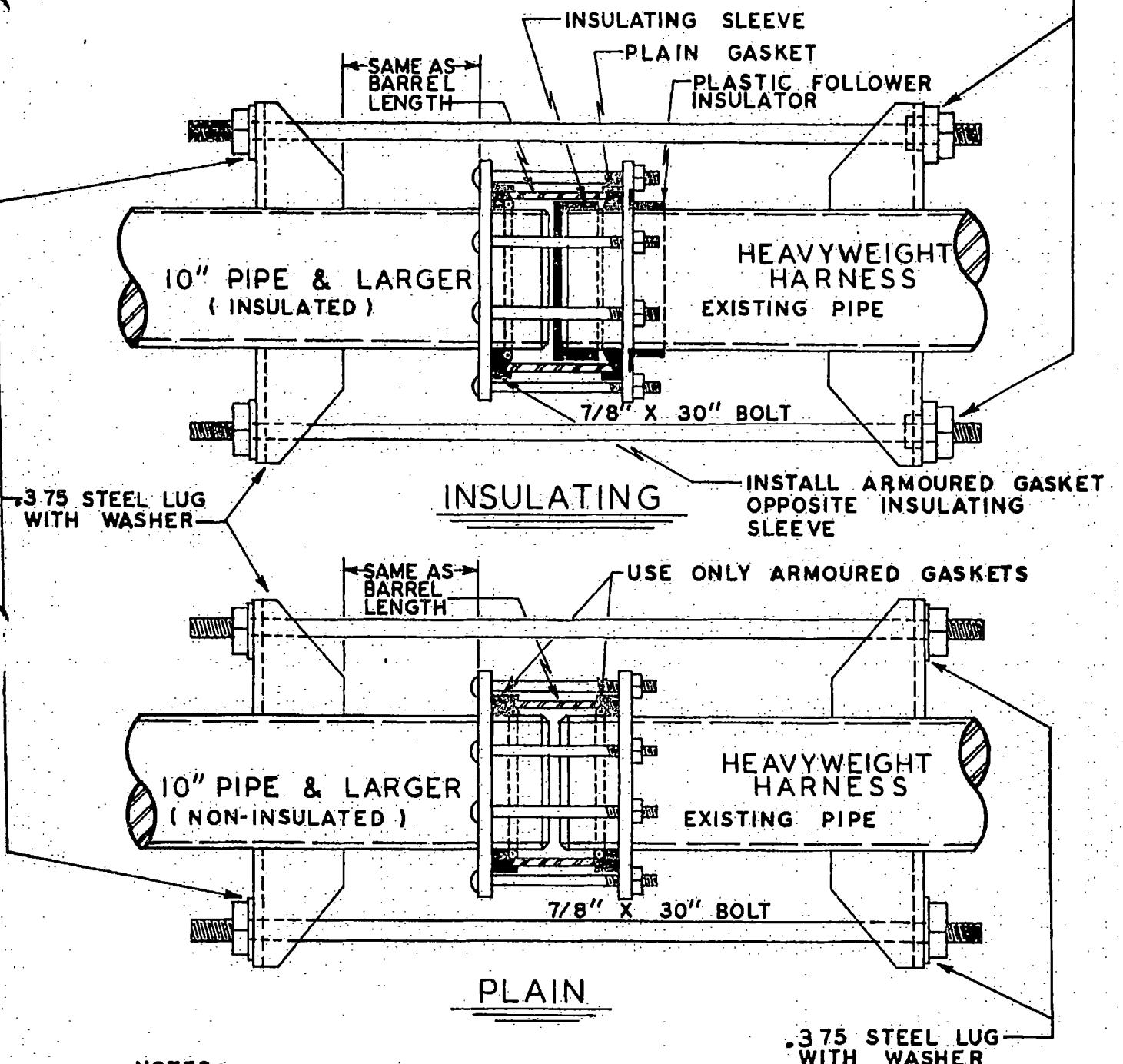
2.2132.3 Typical Harness Installation Drawings

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| 7-1-65 | 1-9-68 | | | | | | 2036 |

.375 STEEL LUG WITH INSULATOR

NOTE:

INSTALL INSULATING LUG & INSULATING SLEEVE ON EXISTING PIPE



NOTES:

APPLY TWO COATS OF ROSKOTE TO ALL BARE PARTS

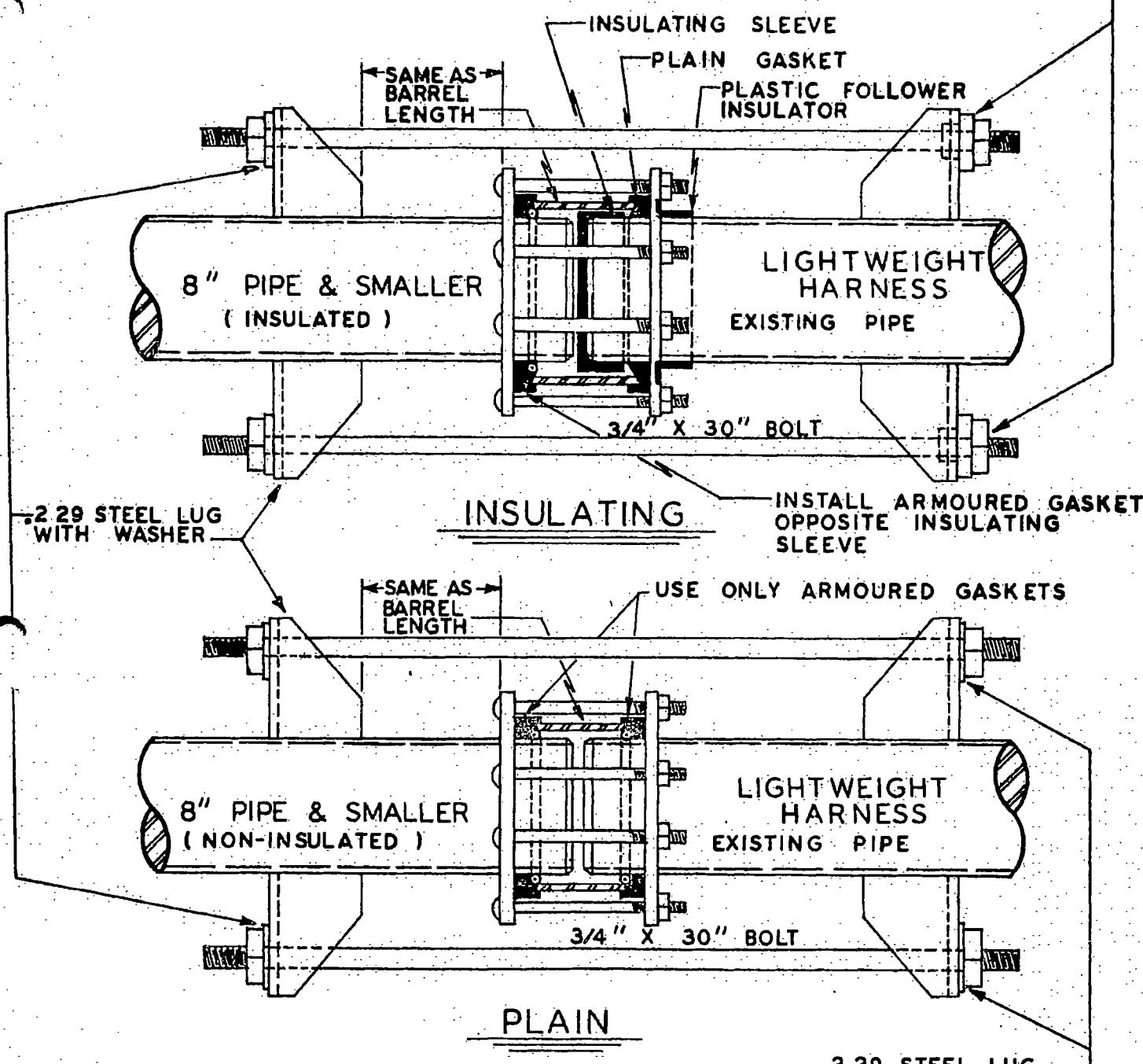
IF AVAILABLE USE PRE-COATED STAB TYPE COUPLERS WHERE POSSIBLE

BOTH INSIDE AND OUTSIDE WELDING SURFACES OF LUGS ARE TO BE WELDED TO PIPE

| | |
|---|--|
| LOUISVILLE GAS AND ELECTRIC CO. Louisville, Kentucky | |
| ELECTRIC DIST. <input type="checkbox"/> | NATURAL GAS <input checked="" type="checkbox"/> GAS DIST. <input type="checkbox"/> |
| TYPICAL HARNESS INSTALLATION | |
| Seals | NONE Date 1-6-65 |
| Drawn by | J. C. TALIAFERRO |
| Approved by | NO. 1319-A |

.229 STEEL LUG WITH INSULATOR

NOTE:
INSTALL INSULATING LUG & INSULATING
SLEEVE ON EXISTING PIPE



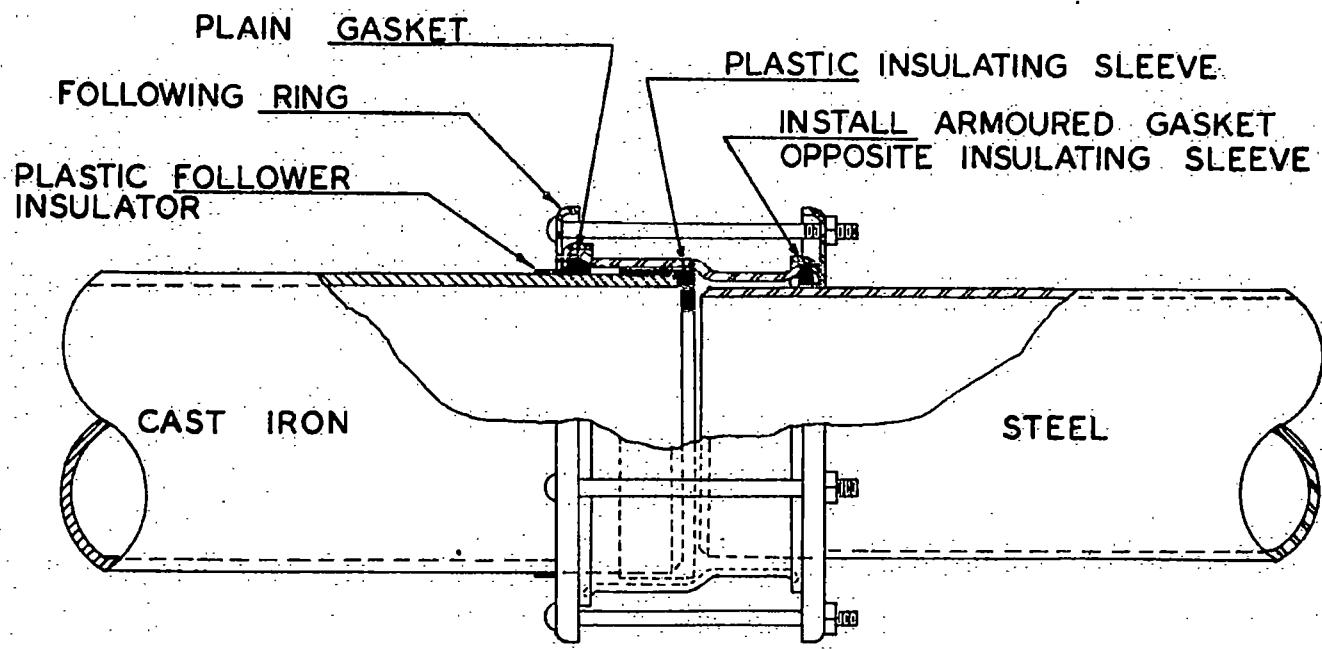
NOTES:

APPLY TWO COATS OF
ROSKOTE TO ALL BARE
PARTS

IF AVAILABLE USE PRE-
COATED STAB TYPE
COUPLERS WHERE POSSIBLE

BOTH INSIDE AND OUTSIDE
WELDING SURFACES OF LUGS
ARE TO BE WELDED TO PIPE

| | |
|---|--|
| LOUISVILLE GAS AND ELECTRIC CO. Louisville, Kentucky | |
| ELECTRIC DIST. <input type="checkbox"/> | NATURAL GAS <input checked="" type="checkbox"/> GAS DIST. <input type="checkbox"/> |
| TYPICAL HARNESS INSTALLATION | |
| Seals NONE | Date 1-9-65 |
| Drawn by J. C. TALIAFERRO | |
| Attachment 1 to Response to PSC Question No. 4 | |
| Page 8 of 10 | |
| Page 2038 | |
| Bellar | |



DRESSER STYLE 39-62
REDUCING COUPLER
TO BE USED FOR TRANSITION
FROM CAST IRON TO STEEL.

| | | |
|---|--------------------------------------|---|
| LOUISVILLE GAS AND ELECTRIC CO. Louisville, Kentucky | | |
| ELECTRIC DIST. <input type="checkbox"/> | NATURAL GAS <input type="checkbox"/> | GAS DIST. <input checked="" type="checkbox"/> |
| CAST IRON TO STEEL - TRANSITION | | |
| Scale <u>NONE</u> | Date <u>6-22-65</u> | |
| Drawn by <u>W.L. KABLER</u> | | 1319-D |
| Approved by _____ | | |

2.213.3 Dresser Stop-N-Go Coupling

The Dresser Style 90 Stop-N-Go coupling is to be installed for future extensions only on 2" medium pressure lines. For a 4" medium pressure main, it is more economical that a valve be left for future extensions.

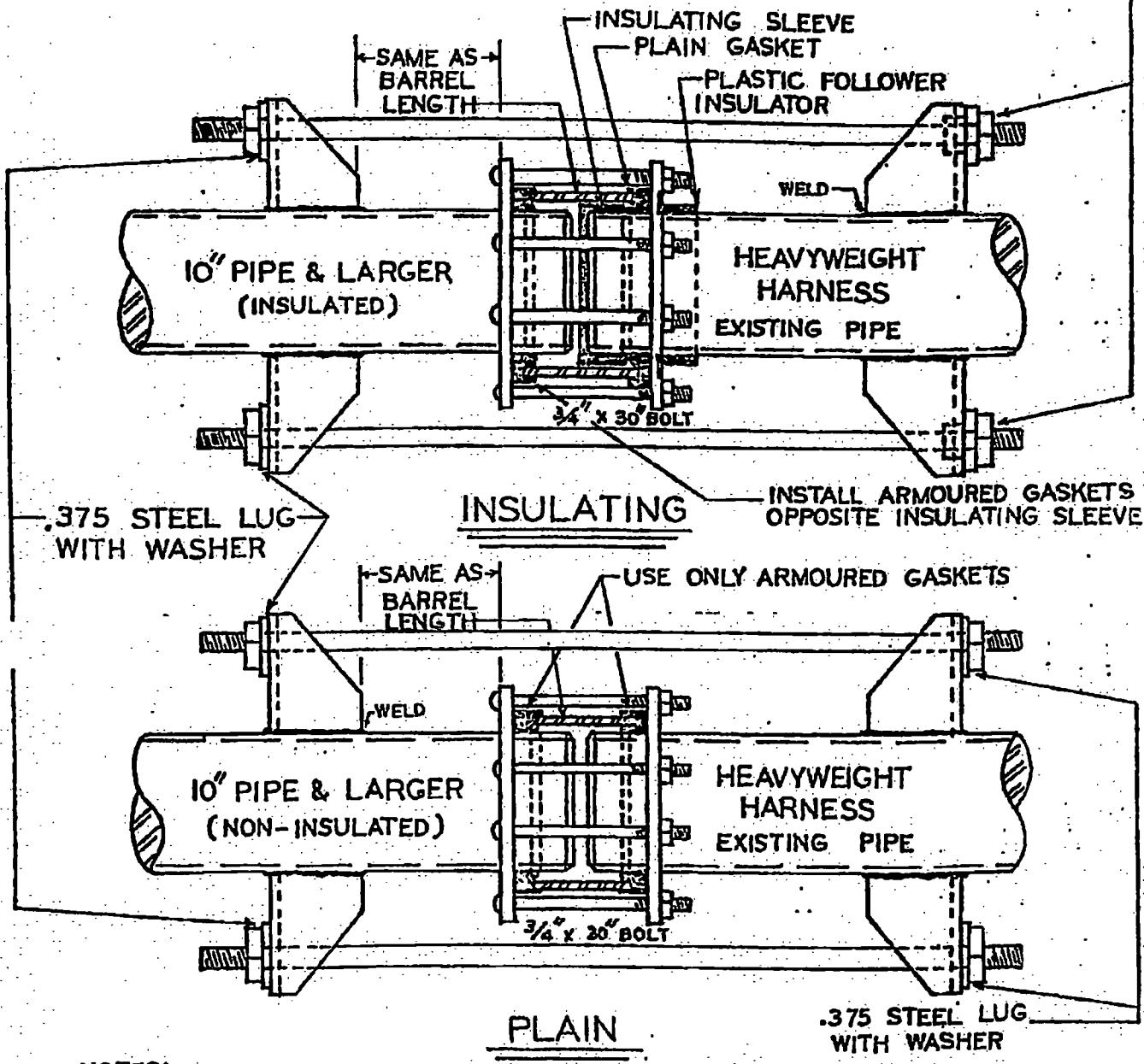
See the following procedures for the use of the 2" Style 90 Stop-N-Go.

| ORIGINAL | REVISIONS | | | | | PAGE |
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| 7-1-65 | 1-9-68 | | | | | 2041 |

.375 STEEL LUG WITH INSULATOR

NOTE:

INSTALL INSULATING LUG & INSULATING SLEEVE ON EXISTING PIPE



NOTES:

APPLY TWO COATS OF MASTIC TO ALL BARE PARTS

IF AVAILABLE USE PRE-COATED STAB TYPE COUPLERS WHERE POSSIBLE

BOTH INSIDE AND OUTSIDE WELDING SURFACES OF LUGS ARE TO BE WELDED TO PIPE

| | |
|---|------------------------------------|
| LOUISVILLE GAS AND ELECTRIC CO. Louisville, Kentucky | |
| ELECTRIC DIST. <input type="checkbox"/> | GAS DEPT. <input type="checkbox"/> |
| TYPICAL HARNESS INSTALLATION | |
| Spec. NONF Date 3-20-83 Drawn by G. DEMKO Approved by | FIG. D-8 |

LOUISVILLE GAS AND COMPANY

**Response to Commission Staff's Second Request for Information
Dated October 13, 2017**

Case No. 2017-00119

Question No. 5

Witness: Counsel

- Q-5.** Disclose the identity of each person LG&E intends to present as an opinion witness or expert witness at the formal hearing scheduled in this matter. For each such person, provide a written report containing the information specified in Rule 26(a)(2)(B) of the Federal Rules of Civil Procedure.
- A-5.** LG&E intends to present Daniel A. Ersoy as an expert witness at the formal hearing scheduled in this matter. Mr. Ersoy is an R&D Executive Director with Gas Technology Institute. See attached the written report containing the information specified in Rule 26(a)(2)(B) of the Federal Rules of Civil Procedure.



the Energy to Lead

GTI Project No. 22216

FCRP Rule 26(a)(2)(B) Expert Witness Report

Kentucky Public Service Commission Show Cause
Order Related to a Mechanical Compression
Coupling Failure on LG&E's Ballardsville
Transmission Pipeline

Case No. 2017-00119

Report Issued
October 12, 2017

Prepared By

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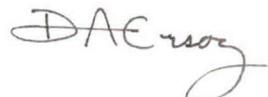
SIGNATURE PAGE

AUTHOR

SIGNATURE

DATE

Daniel A. Ersoy



October 12, 2017

R&D Executive Director &

Title: Sr. Institute Metallurgical Eng.

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1. INTRODUCTION

This is an expert witness written report submitted by Mr. Daniel Ersøy of the Gas Technology Institute related to the review of an LG&E Action Plan Framework (“Framework”) stemming from a mechanical compression coupling failure and subsequent root cause failure analysis as referenced in the Commonwealth of Kentucky Public Service Commission **Case No. 2017-00119**.

The report is being submitted under the request of the Kentucky Public Service Commission with reference to the Federal Rules of Civil Procedure (FRCP) Title V – Disclosures and Discovery - Rule 26 - Duty to Disclose; General Provisions Governing Discovery - (a) Required Disclosures - (2) Disclosure of Expert Testimony - (B) Witnesses Who Must Provide a Written Report.

The compliance to the requirements per **FRCP Rule 26(a)(2)(B)** are as follows:

- i. **A complete statement of all opinions** the witness will express and the basis and reasons for them - This information is provided in the body of the written report.
- ii. **The facts or data considered** by the witness in forming them - This information is provided in the body of the written report.
- iii. **Any exhibits** that will be used to summarize or support them - *The GTI Report, “Failure Analysis Investigation of a 12” Pipe Coupling system, June 29, 2015, GTI Project Number 21745.1.01* was referenced. This report is included as Attachment B of the *Gas Pipeline Safety Branch Incident Investigation Report - LG&E Ballardsville Natural Gas Transmission Pipeline, August 11, 2016*.
- iv. **The witness’s qualifications**, including a list of all publications authored in the previous ten years - This is included as Attachment A of this report.
- v. **A list of all other cases** in which, during the previous four years, the witness testified as an expert at a trial or by deposition - The witness (Daniel Ersøy) has not testified (trial or deposition) in the previous four years.
- vi. **A statement of the compensation** to be paid for the study and testimony in the case - The GTI rate for Professional Level VII (of the Expert Witness) is \$422.13/hour.

2. BACKGROUND

The source material and information that contributed to this written report includes: the root cause failure analysis report: "*Failure Analysis Investigation of a 12" Pipe Coupling system, June 29, 2015, GTI Project Number 21745.1.01*" completed by the Gas Technology Institute (Daniel Ersoy and Brian Miller), the PUC letter *Gas Pipeline Safety Branch Incident Investigation Report - LG&E Ballardsville Natural Gas Transmission Pipeline, August 11, 2016* that references the root cause failure analysis report in its entirety, several phone calls and one in person visit to LG&E in Sep. and Oct. of 2017, the review of the LG&E Framework, and my professional experience as an engineer and subject matter expert in the Natural Gas industry for seventeen years and as a U.S. Navy Nuclear Qualified Officer for approximately ten years.

Detailed experience and qualifications are in Attachment A to this report. This experience includes extensive root cause failure analysis including that of mechanical compression couplings, as well as testing of their sealing and failure modes as part of industry collaborative programs. My experience also bridges developing an API 1104 welding specification template that is currently being incorporated into a natural gas asset tracking and traceability data platform.

The opinions in this written report are solely based on what I have reviewed to date from the Ballardsville compression coupling failure and my subsequent interactions with LG&E and review of their Framework. It should be recognized that the Framework is a living document/plan and would be expected to continue to develop over time. The opinions in this report should be tempered with the understanding that not all operator assets, organizational structures, operating environments are the same and that differences in practices are not only justified, but necessary in particular cases. Finally, unless otherwise noted, the recommendations and opinions in this report are focused primarily on bolted style mechanical compression couplings operating at higher pressures (>60 psig) like the compression coupling involved in the Ballardsville incident.

The LG&E Framework was viewed through the lens of recognized state-of-the-art (sound practice) body of knowledge on operational "Key Principles and Processes." These practices will be referenced in the subsequent review sections as noted, sometimes with the associated abbreviations.

Key Principles and Process

- Operator Safety Principles - since this is an overarching Key Principle it will not be listed expressly, rather it is inherent in all the categories of review.

- Sound Engineering Principles (ENG)
- Risk Assessment and Risk Management (RA/RM)
- Preventative and Mitigative Measures (P&M)
- Continuous Process Improvement (CPI) and Management Plan-Do-Check-Act (PDCA)
- Traceable, Verifiable, and Complete (TVC) Record Keeping
- Tracking and Traceability (TT) and Data and Records (D&R)
- Training (Training)
- Distribution Integrity Management Process (DIMP)
- Transmission Integrity Management Process (TIMP)
- Quality Assurance (QA)
- Quality Control (QC)
- Leading Indicators (LI)
- Management of Change (MOC)
- Communications (COMM)

The typical goals and objectives of the above key principles and processes were used to compare, at a high or framework level, the Framework developed by LG&E. This was done with extensive knowledge of application of these principles and processes being used by similar LDC operators in multiple state jurisdictions, ultimately under Part 192 of the Federal Code.

The ultimate goal and objective of an action plan stemming from the noted compression coupling failure should be to apply and interrelate the key principles and processes through the use of procedures, manuals, guides, training, programs, etc. to increase safety, system integrity, and reduce related risks. These could include O&M Manuals, Operator Qualification Programs, Standards Watches, and other procedures.

The opinions of this report are also focused on "what" core actions need to be done vs. the precise way (or "how") they will be done. The opinion is directed at a high level vs. the overly detailed level. Finally, when appropriate, the responsible party ("who") at the department level is noted and to a much lesser extend the implementation "when" is discussed. When appropriate in the report, "best practices" are noted as a benchmark point to ultimately aspire to; these practices are typically above the standard/sound practices or statutory requirements in most Federal or State regulations.

While the core areas of review (category sections) in this report and the Key Practices are important for a well-rounded and complete action plan (Framework), the overarching review and opinion consideration should be, and was placed on safety; as related to prevention of injury or death to any members of the public or operator staff, as well as prevention of damage to operator systems and public assets and the environment.

3. OPINIONS OF THE WITNESS

This section of the written report is organized by category of review of the Framework. As noted earlier, and unless stated otherwise, the focus of the review and opinion is primarily on bolted style mechanical compression couplings operating above 60 psig.

In summary, after reviewing the operator's Framework and the other facts considered, and taken as a whole, it is my opinion that the actions being taken in response to the findings of the Ballardsville failure are prudent and deliberate. These actions are also in line with sound engineering judgement and a focus on safety.

A. Excavation Guidelines Related To Mechanical Compression Couplings

This is a critical safety area, to protect both the operator personnel in the excavation zone, as well as third party excavators and the general public in the vicinity of any excavations that could involve mechanical compression couplings.

The Framework includes a Standards Watch for both 1st (operator) and 3rd party field personnel that might happen upon mechanical compression couplings during routine/planned and/or corrective maintenance or repair work.

Key elements of the Watch document include proactive communications with both operator personnel as well as reactive and timely communications with third party excavators based on input from the one call system, specifically focused on bolted mechanical compression couplings for higher pressure systems. Instructions include immediate actions and stop or hold points, and placing the excavation in a safe situation and stopping any further interaction with discovered/uncovered compression couplings. Visual examples are provided as well. This is an important step since a hold point can prevent further operational or construction activities that could destabilize a mechanical compression coupling that is not in proper working order. Actions also involved establishing a safe perimeter which would move personnel to a more remote distance from the unearthened compression coupling.

Instructions to operator personnel also include alerting the key decision making departments of Engineering, Operations, and Integrity Management to allow safety-focused decisions to be made. This constitutes cross departmental communications. When internal or external requests are made, the operator will check records and as built to determine if a known compression coupling is in the excavation zone. Even if no compression coupling is predicted, instructions are given on what to do if a

compression coupling is uncovered during excavation. This step is important and necessary since there is a preemptive component that alerts the right department to look at the planned excavation before the digging begins, to identify any known compression couplings, so appropriate actions and precautions can be made. Then there is a reactive component that instructs the field personnel to stop and place the site in a safe situation (as noted in the paragraph above) and then immediately contact the three key departments that house the staff to make proper engineering, integrity, and further safety decisions.

If it is decided to backfill the ditch and not replace the compression coupling, then pictures, soil characteristics, system layout and other features and attributes of the compression coupling installation are recorded. This step is important since the collected information can be fed into the Data and Record system and be used to refine statistical analysis and risk assessment models. This also allows the operator to carry out continue process improvement (CPI) of their Framework and the associated assumptions made during its development.

The instructions will also include a leak survey to check for system leakage if the disturbance from the excavation and backfill might have compromised the leak sealing ability of the compression coupling. This P&M measure adds another layer of safety, as a check on the pressure sealing integrity of the mechanical compression coupling that was unearthed in the excavation.

In addition to the above, the operator added another Standards Watch document to take special precautions when blasting operations could affect the integrity of mechanical compression couplings on transmission lines. This is a prudent step since the pressure shock and vibration from blasting operations could potentially affect the mechanical integrity of compression couplings and proactive steps prior to blasting taking place, and can help ensure the continued integrity of these compression couplings.

B. Compression Coupling Specification, Selection, and Use

The Framework includes enhanced specifications for mechanical compression couplings similar at a high level to the specifications used for API 1104 Welding (process, materials, and welder qualifications). The operator will develop the specification for the compression coupling system design and performance requirements for each system use case based on operational system attributes like diameter, pressure, piping material type, etc.

An engineering design basis will be used to confirm the compression coupling system for use, including items like number of lugs, restraint bolts/rods, pull out prevention washers, etc.

These engineering specifications will be compared to the manufacturing and supplier recommendations for consistency and conservatism.

Performance requirements consider the system material (plastic vs. steel, or mixed), restrained vs. un-restrained requirements, MAOP-based sealing and pull-out requirements, thermal expansion and contraction considerations (especially for cased pipe sections), and other factors.

The compression coupling specification and design basis will ensure the fit-for-purpose of these compression couplings for appropriate use in a conservative manner. The independent check by the Engineering Department will confirm manufacturer's recommendations and ensure the compression couplings are being used in an appropriate manner for the operator's specific pipeline system configurations.

The above factors are important as related to corrective actions from the Ballardsville failure since the wrong number of rods were used for the installation and the installed compression coupling was not fit-for-purpose for the installation requirements. These actions would have helped prevent such an issue.

C. Compression Coupling Installations, Inspections, and Audits

As with the engineering specification and selection process for compression couplings, the Framework includes similar high level requirements for installation, inspections, and audits as in the API 1104 welding standard, especially for field welding (Appendix B of API 1104).

The operator plans to enhance qualifications for mechanical compression coupling installation procedures with a step-by-step checklist. There will be an associated enhanced qualification for the personnel that install the compression couplings. These qualifications are specific to the different types and styles of compression couplings. The personnel qualifications include written and practical demonstrations. The emphasis is to provide reliable and reproducible compression coupling installations that are fit-for-purpose.

The qualifications for the installation personnel include proficiency requirements as well as requalification as warranted. The program includes audit and inspection requirements with their own associated checklists. These training programs are to be interlocked with the OQ program as well.

Finally, the installation program includes review of 3rd party contractor procedures and processes to be equivalent to, or more rigorous to, the operator requirements for their own installation staff/crews. The third party program will include periodic audits by the operator staff to check their conformance to the program.

The above features of the Framework are important since improper installation (wrong number of rods, no washers, poor alignment, etc.) and poor workmanship of welding (missing welds and skip welding) were part of the contributory factors of the Ballardsville compression coupling failure. The Framework actions could have possibly prevented several to all of these contributory factors.

D. Quality Assurance and Quality Control of Compression Coupling Components

The Framework includes an inventory check of compression coupling types and models in stock, as well as their paperwork (pedigree) and traceability. Those that are not traceable and cannot be positively identified are being discarded. (TVC)

The Engineering Department is reconfirming specifications of mechanical and material requirements based use case, diameter, pressure, axial pullout resistance, and other operational considerations . (ENG)

From these specifications a set of certification requirements are being developed to ensure the supplied components are tested and produced to the specifications. (QA)

Purchase requisitions and orders will contain “no-change” requirements that ensure any changes to material type, supplier, production facility, etc. are communicated ahead of time to the operator and receive approval prior to the change. This will allow the request of the foundational recertification of these compression coupling components and sub-components if required. (QA and MOC)

A “pre-shipment” and “receipt” check list will be developed to ensure that all numbers and types of sub-components (e.g., washers, lugs, bolts, etc.) are shipped with the right compression coupling units. (QA)

Periodic external validations of certifications will be performed. (QC, BP)

Traceable markings for compression couplings and eventual incorporation of appropriate metadata will be included into GIS or database systems as warranted. (TVC and T&T)

The above actions are important to ensure that the correct compression couplings, with proper, traceable markings and paperwork/certifications are shipped to the operator with the right materials, sub-components, and checklists. These actions will also alert the operator when the manufacturing facility changes and/or the materials and sub-component supplier change. It is at these critical points that quality assurance can be lost if actions are not taken to track and verify continued conformance to specifications.

Finally, the internal receipt checks and periodic external audits will put into place a multi-tiered quality check program to supplement the upstream quality assurance procedures and checks.

E. Preventative and Mitigative Measures

The Framework includes the plan for mid- to long-term removal of >60 psig bolt style compression couplings on an opportunistic basis.

The company will not use any mechanical compression couplings for greater than 60 psig systems moving forward.

The company plans to eventually remove the three remaining transmission compression couplings that are in service.

There is a prohibition of bolted compression couplings on 3 psig to 60 psig systems except for management-approved, atypical situations that might be required during corrective maintenance/repair situations - until a more permanent joining method can be used.

The Framework is considering the possibility of excavations that do not uncover an unknown compression coupling, but uncover the soil just adjacent to compression coupling on either side; meaning that the compression coupling would be just inside the sloping berm of the excavation.

This latent situation could pose a safety issue since the uncovered side of the compression coupling might remove enough soil restraint to allow an un-restrained or improperly restrained compression coupling to start pull-out.

To address this potential, hidden danger, the operator will review records for possible compression coupling installations in the vicinity of the excavation. A further future action will be to investigate the potential for inspection technology to detect still-buried compression couplings from: (a) above ground, and (b) from in-the-ditch. There are potential magnetic and ultrasonic technologies that might be able to do this respectively; but a feasibility study needs to be conducted to validate the technologies reliability and potential for false/true negatives and positives.

These P&M decisions exhibit that the operator is minimizing the use of bolted mechanical compression couplings on systems above 3 psig. There is also a deliberate decision to opportunistically remove all mechanical compression couplings above 60 psig, including the planned removal of the three remaining transmission compression couplings in the operator system. The operator has taken the conservative approach of assuming that there could: (a) be an unknown compression coupling at any excavation (hence the previously discussed Standards Watch), and (b) that there could be a latent compression coupling just inside the berm. This latter situation is a difficult situation to deal with for any operator, and the eventual validation of a technology and process to detect such hidden compression couplings would be of benefit to the industry.

F. Continuous Process Improvement and Leading Indicators

As compression couplings are deliberately dug up for inspection and/or replacement; or opportunistically encountered during excavations the operator will collect associated field data.

This data could include (but is not limited to): soil type and density, soil adherence levels, external and internal corrosion, seal engagement length (stab distance), elastomer seal condition, break open torque of fasteners or seal nuts, condition of lugs, weld quality of

lugs to the pipe body, washers, and bolts, alignment levels or issues, and other conformance to design specification and installation requirements.

The operator plans to send particular components out for metallurgical testing, like hardness testing of the lugs to ensure that they are made of strong enough steel (vs. weaker deep-draw quality steel like in the Ballardsville failure).

The compression couplings can be rated on their fitness-for-service condition and predicted long-term stability.

Trends such as a short stab length, washer and lug deformation, restraining rod misalignment or improper installation numbers, poor welding quality, etc. will be noted and plotted on a geographic basis, e.g., on the operator GIS looking for trends or groups of issues.

The above data can be used as leading indicators for trend analysis and potential predictions in the ongoing changes (or none) in compression coupling stability and integrity.

These findings can be fed back into the companies RA, CPI, Watches, etc. as part of continued program refinement and improvement.

G. Risk Assessment & Risk Management and Distribution & Transmission Integrity Management

The Framework includes a 100% record review of transmission lines (via in-line inspection and/or records review) to confirm compression coupling locations.

The Framework also plans a 100% records review of distribution compression couplings on mains with a MAOP greater than 60 psig to confirm their locations; and this information can be fed into:

- One call ticket responses and preparations for excavation safety
- GIS overlays (T&T and D&R)
- The DIMP RA model for risk calculations (DIMP, RA)
- The record of opportunistic compression coupling replacement (RM)

As noted in the last section, the findings for physical inspections of excavated compression couplings will be recorded, organized, and have a trend analysis performed on - including incorporation of findings into the operators DIMP and RA/RM plans.

H. Communications

The Framework considers the proper engagement of leadership, management, field personnel, and third parties; and presents the flow of data and information in a prescribed and transparent manner.

Of key importance in the Framework is the timely engagement of the Engineering Department on design, specifications, and FFS and FFP decisions; the Operations Department on leveraging P&M measures and repair vs. replacement decisions along with the Engineering Department; and the Integrity Management Group for risk assessment and management decisions, tracking of leading indicators, and FFS along with the Engineering Department.

The company has addressed corrective actions and created a Framework using cross-departmental teams vs. a silo approach. The leadership through key management groups have been consulted, as well as the operators legal team to ensure a complete and appropriate response to the shortcomings determined from the root cause failure analysis of the Ballardsville compression coupling failure.

4. BEST PRACTICE CONSIDERATIONS

The following items could be referenced as part of follow on efforts (to the immediate Framework) to further enhance the effectiveness of the compression couplings related process and procedures:

- Incorporate API Recommended Practice For Pipeline Safety Management Systems (API RP 1173) into appropriate facets of the compression couplings program. API RP 1173 describes ten essential elements for safety-related activities for energy pipeline operations:
 1. Leadership and management commitment
 2. Stakeholder engagement
 3. Risk management
 4. Operational controls
 5. Incident investigation, evaluation, and lessons learned
 6. Safety assurance
 7. Management review and continuous improvement
 8. Emergency preparedness and response
 9. Competence, awareness, and training
 10. Documentation and record keeping

As Section 3 of this written report demonstrated, the operator has addressed many of these ten elements, but a review of the API RP 1173 standard in light of the mechanical compression couplings failure and program would be of benefit.

- Develop and implement a Quality Program like ISO 55001, which was developed by ISO to enable organizations to implement effective and efficient management systems for physical assets. The certification provides assurance that an organization can achieve its asset management objectives consistently and sustainably over time.
- Development of a formal root cause failure analysis, lessons learned, and near miss program. This could include nonconformance reports (usually associated with a quality program) where any employee or stakeholder can report a nonconformance to process, specification, and procedure, as well as a safety “near miss”.
- Further elevate a strong *culture* of safety, integrity, quality, and teamwork - with full leadership commitment.

5. ADDITIONAL FRAMEWORK ITEMS TO CONSIDER

- A. Overall timeline of Framework execution - when will specific items be done and what are milestone dates for completion, implementation, and initial and ongoing checks of the findings.
- B. Category criteria, and time intervals selected for: immediate, scheduled, and monitored action classes - what are the criteria to place items in each action class, and when must the actions be taken by.
- C. Determination of possible enhancements to other mechanical joining systems like above ground repair systems, unions, etc.
- D. Benchmark the Framework sections with other Kentucky LDC operators - share the operator findings and practices with others in the State and vice versa.

END OF REPORT BODY

6. ATTACHMENTS

Attachment A - Expert Witness's Qualifications per FRCP Rule 26(a)(2)(B)(iv)

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Executive Director - Gas Technology Institute

Core Areas of Expertise

- Corrosion Assessment, Monitoring, Control, and Mitigation Procedures
- Metallurgical & Materials Consulting and Root Cause Failure Analysis
- Pipeline/System Integrity Assurance and Process Development
- Fitness for Service/Purpose, Risk Analysis/Management, and Quality Assurance
- Coatings Selection, Specification, Testing, Management, and Inspection
- Welding Metallurgy and Inspection
- Compliance to Codes & Regulations and Suitable Use of Technical Standards
- Statistical Sampling, Analysis, and Modeling
- Leadership and Management of Complex Projects, Programs, and Associated Teams/Staff

Education

- Master of Science in **Materials Engineering** – Emphasis in **Corrosion Science/Engineering** (1999), University of Illinois, Chicago, Illinois - GPA 5.0/5.0
- Master of Science (equivalent) **Nuclear Engineering** (1992), Naval Nuclear Power School, Orlando, Florida
- Bachelor of Science in **Metallurgical Engineering** (1989), Illinois Institute of Technology, Chicago, Illinois - GPA 3.94/4.00 (4.00/4.00 in Major) Alumni Award for Graduating First in Engineering Class

Licenses, Certifications, and Registrations

- Qualified as Engineer on Naval Nuclear Propulsion Plants (comparable to Registered Professional Engineer certification), Saratoga, New York and Bremerton, Washington
- Qualified as Nuclear Engineer, U.S. Naval Nuclear Power School, 1992, Orlando, Florida and Saratoga, New York
- Qualified as Quality Engineer, Department of the Navy Total Quality Management School, 1995, San Diego, California
- NACE Level 3 Peer Certified International Coating Inspector (#7925), NACE International, Houston, Texas
- Internal Corrosion for Pipelines, November 2003, National Association of Corrosion Engineers, Houston, Texas
- Certified (CF.APMP/#3638) Proposal Management Professional, APMP, Wash D.C.
- Naval Officer Candidate School, Newport, Rhode Island, 1989 (Mayoral Award - Graduated First in Naval Class)

Professional Experience

Gas Technology Institute, 2000 to present, Des Plaines, Illinois

Since 2000 have progressed through positions of increasing responsibility, e.g., Principal Engineer, Senior Engineer, R&D Manager, R&D Director, and currently Executive Director

- Executive Director of the GTI Energy Delivery Sector (Transmission and Distribution Infrastructure): Currently leads the program development of new technologies and projects.
- Principal Investigator for GTI research on Pipeline and Atmospheric Corrosion Mechanisms, System Risk Assessment, Integrity Assurance and Asset Management, Hydrotesting Alternatives, Corrosion Assessment Methodologies, Materials Performance, Fitness-For-Service, and Protective Coatings Evaluations.
- Project Execution as Principal Investigator/ Manager (more examples available upon request):
 - \$5,200,000 *Pipeline Integrity Assurance and Material Validation Research Program* developed and statistically validated a leak-rupture boundary model based on thousands of pipeline failure sets/tests and flow-stress modeling; developed and validated superior metallurgical testing techniques to measure yield strength of pipelines without shutdown; correlated material properties across pipeline wall thickness to surface measurements; developed critical crack and wall loss models to determine if inspections systems can find defects that would fail a hydrotest; performed hundreds of pipeline assessments to demonstrate the equivalence of guided wave inspection to a pressure (hydro) test; developed industry standard material test reports for pipeline steels; developed data quality and pedigree criteria to establish and track reliable, traceable, verifiable, and complete data and records; developed a fitness for service program and technical model for cast iron piping systems.
 - \$4,100,000 *Pipeline Protective Coatings Program* to improve coating selection, performance, and pipeline integrity. Designed and constructed a state-of-the-art field facility, corrosion lab, and testing protocols. Continues to provide detailed coating selection and performance information and training to many of the world's largest energy, gas, oil, and chemical companies.
 - \$2,300,000 *Pipeline Assessment Research Program*, sponsored by 40 gas distribution companies, pipeline operators, and the U.S. DOT/PHMSA. Developed technically based solutions for assessing the mechanical integrity and the external/internal corrosion condition of gas pipelines, cased segments, M&R stations, and other challenging assessment situations. Drafted first industry-wide protocols for external and internal corrosion direct assessments and guided wave inspection use.
 - \$2,500,000 *Gas Interchangeability Program* researching the effect of new and varying gas compositions on the operating components of gas distribution networks and mechanical couplings. Research team developed sampling and testing protocols, industry standards, designed and built test facility, and executed all testing, data analysis, and recommendations to help insure pipeline and system integrity while brining on new gas supply compositions.
- Principal Pipeline/System Integrity Consultant: Regularly performs metallurgical, corrosion, and pipeline integrity root cause analysis for high priority oil and gas pipeline incidents and failures, including pipelines, valves, mechanical couplings, coatings, and welds. Evaluates the buried-asset Pipeline Integrity Management (PIM) programs of the largest natural gas transmission and distribution operators and power plant owners. Developed industry best practices for assessment and management of atmospheric corrosion of system assets. Lead multiple projects related to operator code compliance involving corrosion, leakage, and infrastructure damage assessment.

Metallurgist/Materials Engineer at Univ. of Illinois and Argonne National Labs, 1997 to 2000, University of Illinois, Chicago, Illinois and Argonne National Laboratory - Energy Technology Materials Division, Argonne, Illinois

- Researcher in the High Temperature Materials/Corrosion Group of the Materials Eng. Department. Primary assignment a \$500,000 NSF project involving corrosion, advanced materials, and coatings.
- Innovative research resulted in over 12 publications (including *Nature*), a U.S. patent and International Patent Application (IA), and winning of the 2001 Collegiate Inventors Competition, \$20K prize and induction into Collegiate Inventor Hall of Fame.

U.S. Naval Officer (Nuclear Operations) at U.S. Navy, 1990 to 1997, U.S. Seventh Fleet, Seattle, Washington and Guam. Partial list of assignments below:

- Certified Nuclear Engineer (1991-1995) operated two pressurized water reactors during launch and recovery of aircraft and all phases of maintenance. Awarded Navy Commendation Medal for outstanding performance.
- Chemistry and Corrosion Control Director (1993-1995) responsible for corrosion controls and integrity of two of the U.S. Navy's largest nuclear power plants on the USS Nimitz Aircraft Carrier. Proficient in corrosion prevention of plain carbon and alloy steels, nickel and chromium based alloys, and copper systems. Several million dollar savings realized with innovative planning and coordination during reactor overhaul.
- Quality Engineer (1996-1997) facilitated development and implementation of company/command Strategic Plan and Quality Program, leading to significant increases in production and reduction in rework as documented by tracking program. Awarded Navy Commendation Medal.

Professional Affiliations

- National Association of Corrosion Engineers (NACE International)
- American Society for Materials (ASM International)
- Association of Proposal Management Professionals (APMP)
- American Gas Association (AGA) w/Silver Award of Merit
- Veterans of Foreign Wars (VFW)

Awards and Patents

- R&D 100 Award
- Navy Commendation Medal (twice); Navy Achievement Medal (once)
- John B. McGowan Sr. Research Award
- Collegiate Inventor Hall of Fame and Research Award
- Five (5) issued U.S. patents

Professional Training

- API 1104 Welding of Pipelines and Related Facilities and Welding Inspection, Technical Toolboxes, November 2015, Houston, Texas.
- API 579-1/ASME FFS-1 Fitness for Service, American Society of Mechanical Engineers (ASME), April 2011, Las Vegas, Nevada.

- Pipeline Risk Management, February 2011, Clarion and W.K. Muhlbauer Consultancy, Houston, Texas.
- Statistical Experimental Design Made Easy (Design of Experiments - DoE), July 2010, Stat-Ease, Minneapolis, Minnesota.
- Statistical Response Surface Methods for Process Optimization, July 2010, Stat-Ease, Minneapolis, Minnesota.
- MR0175/ISO 15156 Petroleum and Natural Gas Industries - Materials for use in H₂S-containing environments in oil and gas production Seminar/Training, November 2009, NACE International Headquarters, Houston, Texas.
- Statistical Methods for Research & Development - Descriptive and Inferential Statistics, February 2008, CREA Science, Montreal, Quebec.
- Microsoft (MS) Project - Software Training, November 2007, Project Knowledge LLC, Evanston, Illinois.
- Fundamental of Project Management, November 2007, Project Knowledge LLC, Evanston, Illinois (total of 28 credit hours towards PMP Cert.).
- Specifying and Managing Protective Coatings Projects (Advanced), May 2006, Society of Protective Coatings, Anaheim, California.
- Nondestructive Testing of Pipelines (PT, MT, and UT), November 2005, NDT Training and Placement Center, Houston, Texas.
- Protective Coating Inspector Program, Peer Review and Certification (CIP# 7925), March 2004, National Association of Corrosion Engineers, New Orleans, Louisiana.
- Protective Coating Inspector Program, Level III, March 2004, National Association of Corrosion Engineers, New Orleans, Louisiana.
- Internal Corrosion for Pipelines Technician Level I, November 2003, National Association of Corrosion Engineers, Houston, Texas.
- Protective Coating Inspector Program, Level II, March 2002, National Association of Corrosion Engineers, Norfolk, Virginia.
- Workshop on Electrochemical Measurements, October 2001, Case Western Reserve University, Cleveland, Ohio.
- Protective Coating Inspector Program, Level I, May 2001, National Association of Corrosion Engineers, Houston, Texas.
- Soluble Salts and Premature Coatings Failure Workshop, March 2001, National Association of Corrosion Engineers, Houston, Texas.
- Protective Linings and Coatings I, January 2001, National Association of Corrosion Engineers, Lombard, Illinois.

Select Technical Project Reports as Author

- Indoor Atmospheric Corrosion and Leak Survey Risk-Based Intervals, GTI Report 21858, 2017.
- Correlation of Surface to Bulk Properties, GTI Report 21556, 2017.
- Tracking and Traceability for Transmission Pipelines - Materials, Coating, and Welding, GTI Reports 21668 and 21755, 2017.
- Hydrotesting Alternative Program, GTI Report 21652, 2017.

- Leak Survey Equipment Considerations, GTI Report 21971, 2016.
- Approaches for Preventing Catastrophic Events, GTI Report 21878, 2016.
- Enterprise Decision Support System (EDSS), GTI Report 21770, 2016.
- Leak Survey Equipment Considerations - Development of a Regulatory Conformance and Technology Applicability White Paper, GTI Report 21971, 2016.
- Latent Third Party Damages Statistical Approach, GTI Report 21735, 2015.
- Risk-Based Atmospheric Corrosion / Leak Survey Considerations, GTI Report 21678, 2014.
- Field Applied Coatings: Short and Long Term Performance – Phase IV, GTI Reports 20959/20831/20837/20981/21118, 2010.
- Demonstration of External Corrosion Direct Assessment - Applicability and Reliability for Demanding Situations, GTI Report 20386, 2008.
- In-Field Welding and Coating Protocols, GTI Report 20460, 2009.
- Gas Composition Affects on Material Integrity - Phase I, GTI Report 20298, 2006.
- Maintenance-Free Pipeline Coatings for Critical Locations, GTI Report 20188, 2008.
- Monitoring Internal Corrosion with Fluidized Sensors, GTI Report 20185, 2008.
- Challenging External Corrosion Direct Assessment Situations, GTI Report 15469, 2006
- Int. Corrosion Dir. Assessment - Methodology Development, GTI Report 15470, 2006.
- Pipeline Integrity Management for Natural Gas Transmission Lines - External Corrosion Assessment Methodology Development, GTI Report 15450, 2005.
- Field Applied Coatings Evaluation Phase II, GTI Report 15252, 2007.
- Field Applied Coatings Evaluation Phase I, GTI Report 15104/15454, 2005.
- Field Applied Coatings and Testing Lab, GTI Report 15026, 2003.

Peer Reviewed Publications

- D. Ersoy. 2008. Inspection & Integrity Options for Challenging Network Assessment Situations. Presented at the International Gas Union Research Council (IGRC) 2008 - Session E - "Pipeline Integrity Challenges and Solutions (Invited Speaker)". October 8-10, 2008, Paris France.
- K. Leewis, D. Ersoy, and G. Matocha. 2008. Feasibility Study Relating Guided Wave Ultrasonic Testing (GWUT) and Pressure Testing for High Pressure Steel Pipelines (paper # IPC2008-64403). Proceedings of the 7th Int. Pipeline Conf. (IPC) 2008, September 29-October 3, 2008, Calgary, Alberta, Canada. Awarded "Best Paper of Session".
- M. McNallan, D. Ersoy, R. Zhu, A. Lee, C. White, S. Welz, Y. Gogotsi, A. Erdemir, and A. Kovalchenko. 2005. Nano-Structured Carbide-Derived Carbon Films and Their Tribology. Tsinghua Sci. and Technology, ISSN 1007-0214 05/11, V10, No. 6, pp. 699-703.
- Sumant, A. V., O. Auciello, A. R. Krauss, D. M. Gruen, D. Ersoy, J. Tucek, A. Jayatissa, E. Stach, N. Moldovan, D. Mancini, H. G. Busmann, and E. M. Meyer. 2001. Fabrication of MEMS Components Based on Ultrananostructured Diamond Thin Films and Characterization of Mechanical Properties. Materials Research Society Symposium Proceedings, Materials Science of Microelectromechanical Systems (MEMS) Devices III, 657:EE5.33/1-EE5.33/6.
- Gogotsi, Y., S. Welz, D.A. Ersoy and M.J. McNallan. 2001. Conversion of Silicon Carbide to Crystalline Diamond-structured Carbon at Amb. Pressure. Nature, 411: pp.283-287.

- Ersoy, D.A., M.J. McNallan and Y. Gogotsi. 2001. Carbon Coatings Produced by High Temperature Chlorination of SiC Ceramics. *Mat. Res. Innovations*, 5(2): pp. 55-62.
- Gogotsi, Y., V. Kamyshenko, V. Shevchenko, S. Welz, D.A. Ersoy and M.J. McNallan. 2001. Nano-structured Carbon Coatings on Silicon Carbide: Experimental and Theoretical Study. *Functional Gradient Materials and Surface Layers Prepared by Fine Particles Tech.*, Ed. by M. Baraton and I. Uvarova, Kluwer, Dordrecht, NL, pp. 239-255.
- Ersoy, D.A., M.J. McNallan and Y. Gogotsi. 2001. Platinum Reactions with Carbon Coatings Produced By High Temperature Chlorination of Silicon Carbide. *Journal of the Electrochemical Society*, 148(12): pp. C774-C779.
- Krauss, A.R., O. Auciello, D.M. Gruen, A. Jayatissa, A. Sumant, J. Tucek, D.C. Mancini, N. Moldovan, A. Erdemir, D. Ersoy, M.N. Gardos, H.G. Busmann, E.M. Meyer and M.Q. Ding. 2001. Ultrananocrystalline Diamond Thin Films for MEMS and Moving Mechanical Assembly Devices. *Diamond and Related Materials*, 10: pp. 1952-1961.
- Auciello, O.H., D.M. Gruen, A.R. Krauss, A. Jayatissa, A. Sumant, J. Tucek, D.C. Mancini, N.A. Moldovan, A. Erdemir, D. Ersoy, M.N. Gardos, H.G. Busmann, and E.M. Meyer. 2001. Science and Technology of Ultrananocrystalline Diamond (UNCD) Thin Films for Multifunctional Devices. *Smart Structures and Devices*, SPIE Proceedings Volume 4235. Edited by Dinesh K. Sood, Ronald A. Lawer, and Vasundara V. Varadan. Bellingham, WA: The International Society for Optical Engineering, p.10.
- Ersoy, D.A., M.J. McNallan, Y. Gogotsi and A. Erdemir. 2000. Tribological Properties of Carbon Coatings Produced by High Temperature Chlorination of Silicon Carbide. *Tribology Transactions (USA)*, 43(4): pp. 809-815.
- McNallan, M., Y. Gogotsi and D. Ersoy. 1999. Reaction Formed Coatings for SiC Fibers in Ceramic Matrix Composites. *Elevated Temperature Coatings: Science and Technology III*; San Diego, CA; 28 Feb.-4 Mar. 1999: pp. 351-359.
- Ersoy, D.A., M.J. McNallan and Y. Gogotsi. 1998. High Temperature Chlorination of SiC for Preparation of Tribological Carbon Films. *Symposium on High Temperature Corrosion and Materials Chemistry*; San Diego, CA; 3 – 8 May 1998: pp. 324-333.

Technical Conferences Attended as Presenting Author

- American Gas Association, Operations Conference (Invited technical speaker on topics including: Alternatives to a Hydro-test and Advanced Crack Modeling), May 2017, Orlando, Florida.
- U.S. Department of Transportation Pipeline Research and Development Forum (Invited Speaker on Underground Natural Gas Storage systems - Risk Assessment, Mitigation, and Research Needs), November 16, 2016, Cleveland, Ohio.
- American Gas Association, Operations Conference (Invited technical speaker on topics including: Risk-based atmospheric corrosion program, Electromagnetic acoustic transducer (EMAT) sensor to assess small diameter and unpiggable pipelines, Surface correlation to bulk properties (Yield Strength, Toughness, Chemistry, etc.), Tracking and Traceability – Material and Coating Test Reports (MTRs and CTRs), Alternatives to a Hydro-test and Advanced Crack Modeling, Latent Damage Determination and Prediction from Excavation, Corrosion, etc.), May 2015, Grapevine, Texas.
- U.S. Department of Energy Advanced Materials Office (US DOE AMO) Natural Gas Infrastructure and Methane Emissions Mitigation Workshop (Invited speaker on advanced materials and innovative technologies for natural gas systems), November 2014, Pittsburgh, Pennsylvania.

- American Gas Association, Operations Conference (Invited speaker on topics including pipeline safety, metallurgy, corrosion control, and integrity management), May 2014, Pittsburgh, Pennsylvania.
- Public Interest Advisory Committee (PIAC) Meeting (Invited Speaker on Pipeline Safety and Integrity R&D), April 2014, Chicago, Illinois.
- Southern Gas Association Operations & Engineering Conference (Invited Speaker on topics including metallurgy, corrosion control, and integrity management), April 2014, Spring Web Conference Series.
- Transmission Pipeline Workshop (AGA), Invited speaker to present on metallurgical, hydrotesting, internal inspection technology, and crack growth topics, March 2014, New Orleans, Louisiana.
- American Gas Association, Operations Conference (Invited Speaker for three presentations/papers on Internal Inspection Optimization, Next Generation Inspection Tools, Yield Strength Determination, and Statistical Sampling Methods), May 2013, Orlando, Florida.
- American Gas Association, AGA Transmission Pipeline Workshop (Invited Speaker for four presentations/papers on Alternative Yield Strength Determination, Leak vs. Rupture Boundary Calculation for Pipelines, Internal Inspection Optimization Program, and Hydrotesting Alternatives), March 2013, Chicago, Illinois.
- American Gas Association, Operations Conference (Invited Speaker for four presentations/papers on Leak vs. Rupture Boundary Calculation for Pipelines, Corrosion Control, Materials Science and Metallurgy, Protective Coatings, and Pipeline Integrity Assessments and Management), May 2012, San Francisco, California.
- Pipeline Research Council International, PRCI, 2012 Research Exchange Meeting, (Invited Speaker on Pipeline Crack Modeling and Prediction, Leak-Rupture Boundary Determination, and Guided Wave Inspection and Hydro-Test Equivalency), February 2012, Phoenix, AZ.
- American Gas Association, Corrosion Committee Meeting (Invited Speaker on Underground Vault Coatings Research and Keyhole Excavation Technologies), September 2011, Fort Worth, TX.
- American Gas Association, Operations Conference (Invited Speaker for five presentations/papers on Corrosion Control, Materials Science and Metallurgy, and Pipeline Integrity Assessments and Management), May 2011, Nashville, Tennessee.
- American Gas Association, Corrosion Committee Meeting (Invited Speaker on Pipeline Corrosion, Wall Loss Measurement, and Coating Disbondment Detection), October 2010, Columbus, OH.
- American Gas Association, Operations Conference (Invited Speaker on Corrosion Control and Integrity Assessments), May 2010, New Orleans, Louisiana.
- Pipeline Counsel International (PRCI) Research Exchange Meeting (Invited Speaker on Field Applied Pipeline Coatings: Short and Long Term Performance), February 2010, Atlanta, Georgia.
- U.S. Department of Transportation Pipeline Research and Development Forum (Invited Speaker on Anomaly Detection/Characterization - Ongoing Research and Industry Gaps/Needs), June 2009, Crystal City, Virginia.
- American Gas Association, Operations Conference (Invited Speaker on Corrosion Control and Integrity Assessments), May 2009, Pittsburgh, Pennsylvania.
- Pipeline Counsel International (PRCI) Research Mtg. (Invited Speaker on Field Applied Pipeline Coatings: Short and Long Term Performance), February 2009, Atlanta, Georgia.

- International Gas Union Research Council (IGRC) 2008 (Invited Speaker and International Panel Member - Inspection & Integrity Options for Challenging Network Assessment Situations/Pipeline Integrity Challenges and Solutions), October 2008, Paris France.
- U.S. Department of Transportation Cased Pipeline Integrity Management Assessment Workshop (Invited Speaker and Panel Member for Research and Development Panel), July 2008, Rosemont, Illinois.
- American Gas Association, Operations Conference (Invited Speaker on External & Internal Corrosion, Asset Integrity Management, and Protective Coatings), May 2008, Phoenix, Arizona.
- American Gas Association, Operating Section Fall Corrosion Committee Meeting (Invited Speaker on External & Internal Corrosion and Integrity Management), September 2007, St. Louis, Missouri.
- American Gas Association, Integrity Management Workshop - Completing Baseline Assessments on Cased Pipelines for Pipeline Integrity Mgt. (Invited Speaker on the use of Guided Wave Ultrasonic Testing for Pipeline Inspections), June 2007, Chicago, Illinois.
- U.S. Department of Transportation Pipeline Research and Development Forum (Invited Speaker on using Long Range Ultrasonic Inspection to Assess the Integrity of Buried Pipelines), February 2007, New Orleans, Louisiana.
- American Gas Association/Southern Gas Association External and Internal Corrosion Direct Assessment Workshop (Invited Speaker on External and Internal Corrosion Control and Assessment), October 2005, San Francisco, California.
- Operations Technology Development, August 2005, Monitoring Internal Corrosion of Pipelines Using Fluidized Sensors, Chicago, Illinois.
- American Gas Association 2005 Operations Conference, American Gas Association, April 2005, Invited Papers on: External and Internal Corrosion Assessment and Soil Chemistry Affects on Corrosion Defect Growth Rates, Chicago, Illinois.
- U.S. Department of Transportation Research and Development Forum (Invited Speaker on Pipeline Integrity Management), March 2005, Houston, Texas.
- Natural Gas Technologies 2005 (External and Internal Corrosion Assessments), February 2005, DOE NETL and GTI, Orlando, Florida.
- American Gas Association External Corrosion Direct Assessment Summit & Exhibition (Keynote Speaker on ECDA and Pipeline Integrity), American Gas Association, June 2004, Salt Lake City, Utah.
- American Gas Association 2004 Operations Conference, American Gas Association, May 2004, Phoenix, Arizona.
- Natural Gas Technologies II, February 2004, DOE NETL and GTI, Phoenix, Arizona.
- U.S. Department of Transportation Pipeline Research and Development Forum, December 2003, Washington D.C.
- American Gas Association 2003 Operations Conference, American Gas Association, April 2003, Orlando, Florida.
- Sustaining Membership Program, Gas Technology Institute, April 2003, Chicago, Illinois.
- Distribution Task Group Meeting, Gas Technology Institute, April 2003, Chicago, Illinois.
- Safety and System Integrity 2003 (Vice Chairman), Western Energy Institute, March 2003, Huntington Beach, California.
- Natural Gas Technologies, September 2002, DOE NETL and GTI, Orlando, Florida.

- Gas Technology Institute Laboratories Open House, Failure Analysis and Corrosion Testing, 2002, Des Plaines, Illinois.
- National Association of Pipe Coating Applicators, 2001, Indian Wells, California.
- Gordon Research Conference, 2000, Plymouth, New Hampshire.

Personal

- Proficient in MS Windows, MS Office Suite (Word, Excel, PowerPoint, Visio, and Outlook), MS Project, MS SharePoint, Design Expert, MATLAB, PAST Statistics, Numerit, Vose Model Risk, GPower, Monte Carlo simulations, Bizagi Modeler/BPMN, ProPricer, and numerous technical and scientific applications.
- Flawless handling of Department of Defense classified materials up to Top Secret/SCI level.
- Enjoys swimming, biking, and hiking with his family.

References Available Upon Request