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July 20, 2012

Ontario Energy Board  
P.O. Box 2319  
2300 Yonge Street, 27<sup>th</sup> Floor  
Toronto, ON M4P 1E4

Filed electronically

**Attention: Ms. Kirsten Walli  
Board Secretary**

Dear Ms. Walli:

**Subject: Union Gas Limited – Distribution Rates for 2013  
OEB File No. EB-2011-0210  
TransCanada PipeLines Limited (TransCanada)  
Updated Interrogatory to Union Gas Limited (Union)**

In accordance with Union's Letter dated July 13, 2012, attached please find TransCanada's Updated Interrogatory Responses for:

- Union-TCPL 5 (c)(i)
- Union-TCPL 5 (c)(ii)
- Union-TCPL 11(i)

Sincerely,  
**TransCanada PipeLines Limited**

***Original Signed by***

Elizabeth Swanson  
Associate General Counsel  
Law and Regulatory Research

Enclosures

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**Union -TCPL 5**

~~REVISED May 30, 2012~~ UPDATED July 20, 2012

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**Reference:** TransCanada Written Evidence, Section 3.1, page 5, lines 11-13

**Preamble:** TransCanada states its IT service is essentially firm due to under-contracting on the system.

**Request:**

- (a) Please confirm that interruptible capacity on the TransCanada system is not treated as firm and can be interrupted.
- (b) What was the scheduled long haul flow the day that the Beardmore, Ontario outage occurred? What was the scheduled amount of long haul interruptible flow on that day? How much actual long haul flow occurred on that day? How much actual long haul interruptible flow occurred on that day? How much actual long haul interruptible flow occurred on the next day?
- (c) For each day during the period November 1 to March 31 in each of the years 2000-01, 2001-02, 2002-03, 2003-2004, 2004-05, 2005-2006, 2006-07, 2007-08, 2008-2009, 2009- 10, 2010-11 and 2011-12, please provide for Empress to CDA and Empress to EDA the maximum amount of IT on each day that was i) available, ii) nominated and iii) flowed, based on each of the four NAESB nomination windows.
- (d) Please list all specific dates during these periods where less than 1 PJ was available to flow IT from Empress to Union CDA after i) all contracted FT, STFT and STS was accommodated and ii) all contracted FT, STFT and STS as well as nominated IT was accommodated.
- (e) Please list in a table the number of times each year for the last five years IT services into each of Union's Delivery areas of NDA, EDA and CDA have been curtailed?

**Response:**

- (a) One of the reasons that TransCanada has had declining long-haul firm transportation is that its long-haul IT is treated by the market as essentially firm because of the amount of available capacity on the Mainline. Also, while interruptible capacity is not contractually firm, TransCanada is a non-bumping

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pipeline and authorized IT is not interrupted on subsequent nomination windows to accommodate other service requests, including firm.

Given the current levels of available long-haul capacity on the Canadian Mainline, TransCanada's IT service originating at Empress for delivery to Eastern markets is very reliable. Once IT is authorized through the nominations process on the TransCanada Mainline, it is essentially firm and historically has only been curtailed when a large operational upset such as a linebreak occurs coincident with high flow. As seen in the response to Union TCPL 8(i), this is rare.

- (b) What was the scheduled long haul flow the day that the Beardmore, Ontario outage occurred? – 1,775,917 gigajoules

What was the scheduled amount of long haul interruptible flow on that day? – 108,581 gigajoules

How much actual long haul flow occurred on that day? – 1,728,213 gigajoules

How much actual long haul interruptible flow occurred on that day? – 70,656 gigajoules

How much actual long haul interruptible flow occurred the next day? – 43,027

Long Haul Assumptions: Receipts west of Station 41 or Emerson, and deliveries east of Station 41 excluding Emerson, and Spruce Export.

- (c) i) Data is not available to determine how much IT was available per day on all NAESB nomination windows.

#### SUPPLEMENTAL INFORMATION

TransCanada has further investigated possible means of extracting and using stored data to recalculate capacity availability at each nomination window for the requested paths. TransCanada advises that such a undertaking would require substantial time and resources and is not, in TransCanada's view, warranted.

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[TransCanada notes that it has already provided daily capacity availability on its Northern Ontario Line in Figure Union 5\(d\). This figure provides a good indication of the capacity that would be available on the requested paths.](#)

ii) Nomination records are available in end of day scheduled quantities not as nominated for all NAESB nomination windows.

[SUPPLEMENTAL INFORMATION](#)

[Please refer to Attachment Union 5\(c\)\(ii\) for nomination details by NAESB cycle. Note that nomination data by cycle is not available prior to November 2007.](#)

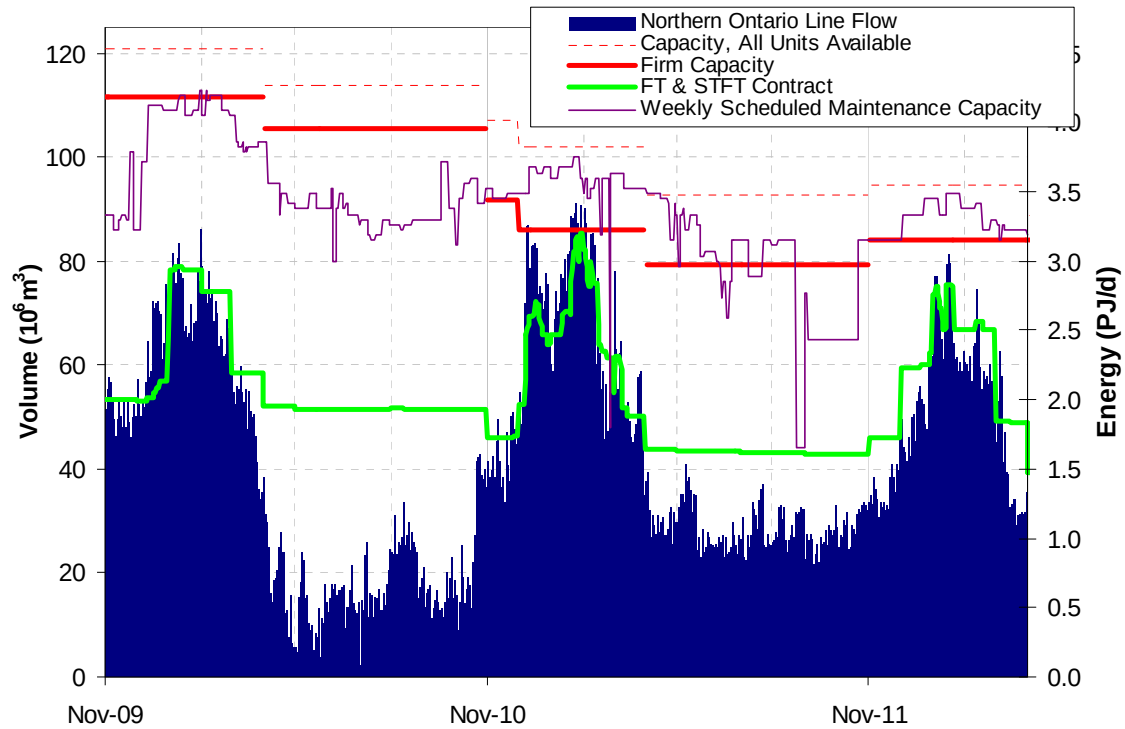
iii) Please refer to Attachment Union 5(c). End of day scheduled quantities have been provided in gigajoules. All scheduled quantities by cycle are not available for all NAESB nomination windows. Days where zero nominations from Empress to CDA or EDA have not been included in the output.

- (d) Figure Union 5(d) below provides the firm contract, LOU capacity, all unit capacity, weekly maintenance capacity and NOL flow from November 2009. It must be noted that capacity represented by the Weekly Scheduled Maintenance Capacity line does not reflect the capacity that could have been made available should there have been demand for it. TransCanada routinely changes its planned maintenance to accommodate shipper requests for transportation service. Further, should a shipper have nominated significant longhaul IT flow, it would have displaced any shorthaul IT; accordingly, there would have been more capacity available to a shipper wishing to flow longhaul IT than is demonstrated on this chart.

Union -TCPL 5

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Figure Union 5(d)



From 2007 to 2012 Curtailment or reduction of previously authorized quantities to Union NDA, EDA, and CDA, occurred only once on the Evening cycle of Feb 20, 2012 due to the Beardmore line break.

| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
| 11/3/07 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 11/3/07 5:00 PM                  | 17:00 ID1     | 400    |
| 11/3/07 9:00 PM                  | 21:00 ID2     | 400    |
| 11/4/07 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 11/4/07 5:00 PM                  | 17:00 ID1     | 400    |
| 11/4/07 9:00 PM                  | 21:00 ID2     | 400    |
| 11/5/07 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 11/5/07 5:00 PM                  | 17:00 ID1     | 400    |
| 11/5/07 9:00 PM                  | 21:00 ID2     | 400    |
| 11/6/07 9:00 AM                  | 09:00 Timely  | 19     |
| 11/13/07 9:00 AM                 | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 11/13/07 5:00 PM                 | 17:00 ID1     | 400    |
| 11/13/07 9:00 PM                 | 21:00 ID2     | 400    |
| 11/15/07 9:00 AM                 | 09:00 Evening | 3138   |
| 11/15/07 5:00 PM                 | 17:00 ID1     | 3138   |
| 11/15/07 9:00 PM                 | 21:00 ID2     | 3138   |
| 11/29/07 9:00 AM                 | 09:00 Evening | 52381  |
|                                  | 09:00 Timely  | 52381  |
| 11/29/07 5:00 PM                 | 17:00 ID1     | 52381  |
| 11/29/07 9:00 PM                 | 21:00 ID2     | 52381  |
| 11/30/07 9:00 AM                 | 09:00 Evening | 52381  |
|                                  | 09:00 Timely  | 52381  |
| 11/30/07 5:00 PM                 | 17:00 ID1     | 52381  |
| 11/30/07 9:00 PM                 | 21:00 ID2     | 52381  |
| 12/3/07 9:00 AM                  | 09:00 Evening | 2328   |
|                                  | 09:00 Timely  | 2328   |
| 12/3/07 5:00 PM                  | 17:00 ID1     | 2328   |
| 12/3/07 9:00 PM                  | 21:00 ID2     | 2328   |
| 12/4/07 9:00 AM                  | 09:00 Evening | 126952 |
| 12/4/07 5:00 PM                  | 17:00 ID1     | 44433  |
| 12/4/07 9:00 PM                  | 21:00 ID2     | 33882  |
| 12/5/07 9:00 AM                  | 09:00 Evening | 182253 |
|                                  | 09:00 Timely  | 64632  |
| 12/5/07 5:00 PM                  | 17:00 ID1     | 55381  |
| 12/5/07 9:00 PM                  | 21:00 ID2     | 55381  |
| 12/6/07 9:00 AM                  | 09:00 Timely  | 103761 |
| 12/7/07 9:00 AM                  | 09:00 Evening | 9551   |
|                                  | 09:00 Timely  | 71472  |
| 12/7/07 5:00 PM                  | 17:00 ID1     | 9551   |
| 12/7/07 9:00 PM                  | 21:00 ID2     | 9551   |
| 12/8/07 9:00 AM                  | 09:00 Timely  | 14826  |
| 12/9/07 9:00 AM                  | 09:00 Timely  | 14826  |
| 12/10/07 9:00 AM                 | 09:00 Timely  | 14826  |
| 12/12/07 9:00 AM                 | 09:00 Evening | 9551   |
|                                  | 09:00 Timely  | 9551   |
| 12/12/07 5:00 PM                 | 17:00 ID1     | 9551   |
| 12/12/07 9:00 PM                 | 21:00 ID2     | 9551   |
| 12/13/07 9:00 AM                 | 09:00 Evening | 9551   |
|                                  | 09:00 Timely  | 77304  |
| 12/13/07 5:00 PM                 | 17:00 ID1     | 9551   |
| 12/13/07 9:00 PM                 | 21:00 ID2     | 9551   |
| 12/14/07 9:00 AM                 | 09:00 Evening | 9551   |
|                                  | 09:00 Timely  | 68979  |
| 12/14/07 5:00 PM                 | 17:00 ID1     | 9551   |
| 12/14/07 9:00 PM                 | 21:00 ID2     | 9551   |
| 12/15/07 9:00 AM                 | 09:00 Evening | 1345   |
|                                  | 09:00 Timely  | 83979  |
| 12/16/07 9:00 AM                 | 09:00 Evening | 148560 |
|                                  | 09:00 Timely  | 148560 |
| 12/16/07 5:00 PM                 | 17:00 ID1     | 132435 |
| 12/16/07 9:00 PM                 | 21:00 ID2     | 116581 |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 11/1/07 9:00 AM                  | 09:00 Evening | 9066  |
|                                  | 09:00 Timely  | 9066  |
| 11/1/07 5:00 PM                  | 17:00 ID1     | 9066  |
| 11/1/07 9:00 PM                  | 21:00 ID2     | 9066  |
| 11/2/07 9:00 AM                  | 09:00 Evening | 9066  |
|                                  | 09:00 Timely  | 9066  |
| 11/2/07 5:00 PM                  | 17:00 ID1     | 9066  |
| 11/2/07 9:00 PM                  | 21:00 ID2     | 9066  |
| 11/3/07 9:00 AM                  | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/3/07 5:00 PM                  | 17:00 ID1     | 8566  |
| 11/3/07 9:00 PM                  | 21:00 ID2     | 8566  |
| 11/4/07 9:00 AM                  | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/4/07 5:00 PM                  | 17:00 ID1     | 8566  |
| 11/4/07 9:00 PM                  | 21:00 ID2     | 8566  |
| 11/5/07 9:00 AM                  | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/5/07 5:00 PM                  | 17:00 ID1     | 8566  |
| 11/5/07 9:00 PM                  | 21:00 ID2     | 8566  |
| 11/6/07 9:00 AM                  | 09:00 Evening | 8866  |
|                                  | 09:00 Timely  | 8866  |
| 11/6/07 5:00 PM                  | 17:00 ID1     | 8866  |
| 11/6/07 9:00 PM                  | 21:00 ID2     | 8866  |
| 11/7/07 9:00 AM                  | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/7/07 5:00 PM                  | 17:00 ID1     | 8566  |
| 11/7/07 9:00 PM                  | 21:00 ID2     | 8566  |
| 11/8/07 9:00 AM                  | 09:00 Evening | 9566  |
|                                  | 09:00 Timely  | 9566  |
| 11/8/07 5:00 PM                  | 17:00 ID1     | 9566  |
| 11/8/07 9:00 PM                  | 21:00 ID2     | 9566  |
| 11/9/07 9:00 AM                  | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/9/07 5:00 PM                  | 17:00 ID1     | 8566  |
| 11/9/07 9:00 PM                  | 21:00 ID2     | 8566  |
| 11/10/07 9:00 AM                 | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/10/07 5:00 PM                 | 17:00 ID1     | 8566  |
| 11/10/07 9:00 PM                 | 21:00 ID2     | 8566  |
| 11/11/07 9:00 AM                 | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/11/07 5:00 PM                 | 17:00 ID1     | 8566  |
| 11/11/07 9:00 PM                 | 21:00 ID2     | 8566  |
| 11/12/07 9:00 AM                 | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/12/07 5:00 PM                 | 17:00 ID1     | 8566  |
| 11/12/07 9:00 PM                 | 21:00 ID2     | 8566  |
| 11/13/07 9:00 AM                 | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/13/07 5:00 PM                 | 17:00 ID1     | 8566  |
| 11/13/07 9:00 PM                 | 21:00 ID2     | 8566  |
| 11/14/07 9:00 AM                 | 09:00 Evening | 9316  |
|                                  | 09:00 Timely  | 8566  |
| 11/14/07 5:00 PM                 | 17:00 ID1     | 9316  |
| 11/14/07 9:00 PM                 | 21:00 ID2     | 9316  |
| 11/15/07 9:00 AM                 | 09:00 Evening | 8566  |
|                                  | 09:00 Timely  | 8566  |
| 11/15/07 5:00 PM                 | 17:00 ID1     | 8566  |
| 11/15/07 9:00 PM                 | 21:00 ID2     | 8566  |
| 11/16/07 9:00 AM                 | 09:00 Evening | 9066  |
|                                  | 09:00 Timely  | 8566  |
| 11/16/07 5:00 PM                 | 17:00 ID1     | 9066  |
| 11/16/07 9:00 PM                 | 21:00 ID2     | 9066  |
| 11/22/07 9:00 AM                 | 09:00 Evening | 1     |

| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 12/17/07 9:00 AM                 | 09:00 Evening | 67261 |
|                                  | 09:00 Timely  | 74163 |
| 12/17/07 5:00 PM                 | 17:00 ID1     | 81158 |
| 12/17/07 9:00 PM                 | 21:00 ID2     | 42759 |
| 12/18/07 9:00 AM                 | 09:00 Evening | 1259  |
|                                  | 09:00 Timely  | 96085 |
| 12/18/07 5:00 PM                 | 17:00 ID1     | 1259  |
| 12/18/07 9:00 PM                 | 21:00 ID2     | 442   |
| 12/19/07 9:00 AM                 | 09:00 Timely  | 63062 |
| 12/20/07 9:00 AM                 | 09:00 Evening | 9551  |
|                                  | 09:00 Timely  | 25603 |
| 12/20/07 5:00 PM                 | 17:00 ID1     | 9551  |
| 12/20/07 9:00 PM                 | 21:00 ID2     | 9551  |
| 12/21/07 9:00 AM                 | 09:00 Evening | 9551  |
|                                  | 09:00 Timely  | 24377 |
| 12/21/07 5:00 PM                 | 17:00 ID1     | 9551  |
| 12/21/07 9:00 PM                 | 21:00 ID2     | 9551  |
| 12/22/07 9:00 AM                 | 09:00 Evening | 7641  |
|                                  | 09:00 Timely  | 7641  |
| 12/22/07 5:00 PM                 | 17:00 ID1     | 7641  |
| 12/22/07 9:00 PM                 | 21:00 ID2     | 7641  |
| 12/23/07 9:00 AM                 | 09:00 Evening | 7641  |
|                                  | 09:00 Timely  | 7641  |
| 12/23/07 5:00 PM                 | 17:00 ID1     | 7641  |
| 12/23/07 9:00 PM                 | 21:00 ID2     | 7641  |
| 12/24/07 9:00 AM                 | 09:00 Evening | 7641  |
|                                  | 09:00 Timely  | 7641  |
| 12/24/07 5:00 PM                 | 17:00 ID1     | 7641  |
| 12/24/07 9:00 PM                 | 21:00 ID2     | 7641  |
| 12/25/07 9:00 AM                 | 09:00 Evening | 7641  |
|                                  | 09:00 Timely  | 7641  |
| 12/25/07 5:00 PM                 | 17:00 ID1     | 7641  |
| 12/25/07 9:00 PM                 | 21:00 ID2     | 7641  |
| 12/26/07 9:00 AM                 | 09:00 Evening | 7641  |
|                                  | 09:00 Timely  | 7641  |
| 12/26/07 5:00 PM                 | 17:00 ID1     | 7641  |
| 12/26/07 9:00 PM                 | 21:00 ID2     | 7641  |
| 12/28/07 9:00 AM                 | 09:00 Evening | 48265 |
|                                  | 09:00 Timely  | 49491 |
| 12/28/07 5:00 PM                 | 17:00 ID1     | 48265 |
| 12/28/07 9:00 PM                 | 21:00 ID2     | 48265 |
| 12/29/07 9:00 AM                 | 09:00 Evening | 400   |
|                                  | 09:00 Timely  | 1516  |
| 12/29/07 5:00 PM                 | 17:00 ID1     | 400   |
| 12/29/07 9:00 PM                 | 21:00 ID2     | 400   |
| 12/30/07 9:00 AM                 | 09:00 Evening | 400   |
|                                  | 09:00 Timely  | 1516  |
| 12/30/07 5:00 PM                 | 17:00 ID1     | 400   |
| 12/30/07 9:00 PM                 | 21:00 ID2     | 400   |
| 12/31/07 9:00 AM                 | 09:00 Evening | 400   |
|                                  | 09:00 Timely  | 1516  |
| 12/31/07 5:00 PM                 | 17:00 ID1     | 400   |
| 12/31/07 9:00 PM                 | 21:00 ID2     | 400   |
| 1/1/08 9:00 AM                   | 09:00 Timely  | 50000 |
| 1/2/08 9:00 AM                   | 09:00 Evening | 14685 |
|                                  | 09:00 Timely  | 50000 |
| 1/2/08 5:00 PM                   | 17:00 ID1     | 25235 |
| 1/2/08 9:00 PM                   | 21:00 ID2     | 25235 |
| 1/3/08 9:00 AM                   | 09:00 Evening | 29048 |
|                                  | 09:00 Timely  | 50000 |
| 1/15/08 9:00 AM                  | 09:00 Evening | 39591 |
| 1/15/08 5:00 PM                  | 17:00 ID1     | 62    |
| 1/15/08 9:00 PM                  | 21:00 ID2     | 62    |
| 1/19/08 9:00 AM                  | 09:00 Timely  | 51781 |
| 1/20/08 9:00 AM                  | 09:00 Timely  | 51781 |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
|                                  | 09:00 Timely  | 1     |
| 11/22/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/22/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/23/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/23/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/23/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/24/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/24/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/24/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/25/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/25/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/25/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/26/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/26/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/26/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/27/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/27/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/27/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/28/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 8566  |
| 11/28/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/28/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/29/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/29/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/29/07 9:00 PM                 | 21:00 ID2     | 1     |
| 11/30/07 9:00 AM                 | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 11/30/07 5:00 PM                 | 17:00 ID1     | 1     |
| 11/30/07 9:00 PM                 | 21:00 ID2     | 1     |
| 12/3/07 9:00 AM                  | 09:00 Evening | 12284 |
|                                  | 09:00 Timely  | 12284 |
| 12/3/07 5:00 PM                  | 17:00 ID1     | 12284 |
| 12/3/07 9:00 PM                  | 21:00 ID2     | 12284 |
| 12/5/07 9:00 AM                  | 09:00 Evening | 2000  |
|                                  | 09:00 Timely  | 2110  |
| 12/5/07 5:00 PM                  | 17:00 ID1     | 2000  |
| 12/5/07 9:00 PM                  | 21:00 ID2     | 2000  |
| 12/6/07 9:00 AM                  | 09:00 Evening | 13852 |
|                                  | 09:00 Timely  | 15114 |
| 12/6/07 5:00 PM                  | 17:00 ID1     | 500   |
| 12/6/07 9:00 PM                  | 21:00 ID2     | 500   |
| 12/7/07 9:00 AM                  | 09:00 Evening | 1650  |
|                                  | 09:00 Timely  | 1650  |
| 12/8/07 9:00 AM                  | 09:00 Timely  | 10114 |
| 12/9/07 9:00 AM                  | 09:00 Evening | 10114 |
|                                  | 09:00 Timely  | 10114 |
| 12/10/07 9:00 AM                 | 09:00 Timely  | 10114 |
| 12/12/07 9:00 AM                 | 09:00 Evening | 1762  |
| 12/12/07 5:00 PM                 | 17:00 ID1     | 500   |
| 12/12/07 9:00 PM                 | 21:00 ID2     | 500   |
| 12/14/07 9:00 AM                 | 09:00 Timely  | 100   |
| 12/15/07 9:00 AM                 | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 12/15/07 5:00 PM                 | 17:00 ID1     | 1000  |
| 12/15/07 9:00 PM                 | 21:00 ID2     | 1000  |
| 12/16/07 9:00 AM                 | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 12/16/07 5:00 PM                 | 17:00 ID1     | 1000  |
| 12/16/07 9:00 PM                 | 21:00 ID2     | 1000  |

| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
| 1/21/08 9:00 AM                  | 09:00 Timely  | 51781  |
| 1/22/08 9:00 AM                  | 09:00 Timely  | 51781  |
| 1/23/08 9:00 AM                  | 09:00 Evening | 10337  |
|                                  | 09:00 Timely  | 52057  |
| 1/24/08 9:00 AM                  | 09:00 Evening | 3628   |
|                                  | 09:00 Timely  | 33755  |
| 1/24/08 5:00 PM                  | 17:00 ID1     | 3628   |
| 1/24/08 9:00 PM                  | 21:00 ID2     | 3628   |
| 1/29/08 9:00 AM                  | 09:00 Timely  | 41143  |
| 1/30/08 9:00 AM                  | 09:00 Evening | 1700   |
| 1/30/08 5:00 PM                  | 17:00 ID1     | 1700   |
| 1/30/08 9:00 PM                  | 21:00 ID2     | 1700   |
| 1/31/08 9:00 AM                  | 09:00 Evening | 126607 |
|                                  | 09:00 Timely  | 126607 |
| 1/31/08 5:00 PM                  | 17:00 ID1     | 42202  |
| 1/31/08 9:00 PM                  | 21:00 ID2     | 42202  |
| 2/10/08 9:00 AM                  | 09:00 Evening | 57251  |
| 2/10/08 5:00 PM                  | 17:00 ID1     | 57251  |
| 2/10/08 9:00 PM                  | 21:00 ID2     | 57251  |
| 2/11/08 9:00 AM                  | 09:00 Evening | 33992  |
|                                  | 09:00 Timely  | 50000  |
| 2/11/08 5:00 PM                  | 17:00 ID1     | 33992  |
| 2/11/08 9:00 PM                  | 21:00 ID2     | 33992  |
| 2/12/08 9:00 AM                  | 09:00 Evening | 19068  |
|                                  | 09:00 Timely  | 240    |
| 2/12/08 5:00 PM                  | 17:00 ID1     | 61270  |
| 2/12/08 9:00 PM                  | 21:00 ID2     | 53282  |
| 2/13/08 9:00 AM                  | 09:00 Evening | 13789  |
| 2/13/08 5:00 PM                  | 17:00 ID1     | 14239  |
| 2/13/08 9:00 PM                  | 21:00 ID2     | 5239   |
| 2/15/08 9:00 AM                  | 09:00 Evening | 92827  |
|                                  | 09:00 Timely  | 81679  |
| 2/15/08 5:00 PM                  | 17:00 ID1     | 49314  |
| 2/15/08 9:00 PM                  | 21:00 ID2     | 43285  |
| 2/16/08 9:00 AM                  | 09:00 Timely  | 24064  |
| 2/17/08 9:00 AM                  | 09:00 Timely  | 24064  |
| 2/18/08 9:00 AM                  | 09:00 Timely  | 24064  |
| 2/19/08 9:00 AM                  | 09:00 Timely  | 24064  |
| 2/19/08 5:00 PM                  | 17:00 ID1     | 348    |
| 2/20/08 9:00 AM                  | 09:00 Evening | 648    |
|                                  | 09:00 Timely  | 77926  |
| 2/20/08 5:00 PM                  | 17:00 ID1     | 348    |
| 2/20/08 9:00 PM                  | 21:00 ID2     | 348    |
| 2/21/08 9:00 AM                  | 09:00 Evening | 27473  |
|                                  | 09:00 Timely  | 27473  |
| 2/22/08 9:00 AM                  | 09:00 Timely  | 6371   |
| 2/27/08 9:00 AM                  | 09:00 Evening | 80791  |
|                                  | 09:00 Timely  | 102934 |
| 2/27/08 5:00 PM                  | 17:00 ID1     | 53869  |
| 2/27/08 9:00 PM                  | 21:00 ID2     | 53870  |
| 2/28/08 9:00 AM                  | 09:00 Timely  | 63999  |
| 2/29/08 9:00 AM                  | 09:00 Timely  | 6477   |
| 3/1/08 9:00 AM                   | 09:00 Timely  | 40000  |
| 3/3/08 9:00 AM                   | 09:00 Evening | 1100   |
|                                  | 09:00 Timely  | 1000   |
| 3/3/08 5:00 PM                   | 17:00 ID1     | 1100   |
| 3/3/08 9:00 PM                   | 21:00 ID2     | 1100   |
| 3/8/08 9:00 AM                   | 09:00 Timely  | 30000  |
| 3/9/08 9:00 AM                   | 09:00 Evening | 2146   |
|                                  | 09:00 Timely  | 30000  |
| 3/9/08 5:00 PM                   | 17:00 ID1     | 2494   |
| 3/9/08 9:00 PM                   | 21:00 ID2     | 2494   |
| 3/10/08 9:00 AM                  | 09:00 Evening | 8609   |
|                                  | 09:00 Timely  | 32286  |
| 3/10/08 5:00 PM                  | 17:00 ID1     | 2286   |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 12/17/07 9:00 AM                 | 09:00 Evening | 3830  |
|                                  | 09:00 Timely  | 3830  |
| 12/17/07 5:00 PM                 | 17:00 ID1     | 1000  |
| 12/17/07 9:00 PM                 | 21:00 ID2     | 1000  |
| 12/18/07 9:00 AM                 | 09:00 Timely  | 3400  |
| 12/19/07 9:00 AM                 | 09:00 Evening | 4000  |
|                                  | 09:00 Timely  | 4000  |
| 12/19/07 5:00 PM                 | 17:00 ID1     | 4000  |
| 12/19/07 9:00 PM                 | 21:00 ID2     | 4000  |
| 12/21/07 9:00 AM                 | 09:00 Timely  | 4590  |
| 12/22/07 9:00 AM                 | 09:00 Timely  | 4610  |
| 12/23/07 9:00 AM                 | 09:00 Timely  | 4610  |
| 12/24/07 9:00 AM                 | 09:00 Timely  | 4610  |
| 12/25/07 9:00 AM                 | 09:00 Timely  | 4610  |
| 12/26/07 9:00 AM                 | 09:00 Timely  | 4610  |
| 12/27/07 9:00 AM                 | 09:00 Timely  | 9110  |
| 12/27/07 5:00 PM                 | 17:00 ID1     | 1200  |
| 12/27/07 9:00 PM                 | 21:00 ID2     | 1200  |
| 1/8/08 9:00 AM                   | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/8/08 5:00 PM                   | 17:00 ID1     | 1142  |
| 1/8/08 9:00 PM                   | 21:00 ID2     | 1142  |
| 1/9/08 9:00 AM                   | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/9/08 5:00 PM                   | 17:00 ID1     | 1142  |
| 1/9/08 9:00 PM                   | 21:00 ID2     | 1142  |
| 1/12/08 9:00 AM                  | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/12/08 5:00 PM                  | 17:00 ID1     | 1142  |
| 1/12/08 9:00 PM                  | 21:00 ID2     | 1142  |
| 1/13/08 9:00 AM                  | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/13/08 5:00 PM                  | 17:00 ID1     | 1142  |
| 1/13/08 9:00 PM                  | 21:00 ID2     | 1142  |
| 1/14/08 9:00 AM                  | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/14/08 5:00 PM                  | 17:00 ID1     | 1142  |
| 1/14/08 9:00 PM                  | 21:00 ID2     | 1142  |
| 1/18/08 9:00 AM                  | 09:00 Evening | 1142  |
|                                  | 09:00 Timely  | 1142  |
| 1/18/08 5:00 PM                  | 17:00 ID1     | 1142  |
| 1/18/08 9:00 PM                  | 21:00 ID2     | 1142  |
| 1/20/08 9:00 AM                  | 09:00 Timely  | 8745  |
| 1/21/08 9:00 AM                  | 09:00 Timely  | 8745  |
| 1/23/08 9:00 AM                  | 09:00 Evening | 56006 |
|                                  | 09:00 Timely  | 53406 |
| 1/23/08 5:00 PM                  | 17:00 ID1     | 56006 |
| 1/23/08 9:00 PM                  | 21:00 ID2     | 56006 |
| 1/24/08 9:00 AM                  | 09:00 Evening | 59333 |
|                                  | 09:00 Timely  | 64693 |
| 1/24/08 5:00 PM                  | 17:00 ID1     | 59333 |
| 1/24/08 9:00 PM                  | 21:00 ID2     | 9376  |
| 1/30/08 9:00 AM                  | 09:00 Evening | 13842 |
|                                  | 09:00 Timely  | 13842 |
| 2/1/08 9:00 AM                   | 09:00 Evening | 1213  |
|                                  | 09:00 Timely  | 1213  |
| 2/1/08 5:00 PM                   | 17:00 ID1     | 1213  |
| 2/1/08 9:00 PM                   | 21:00 ID2     | 1213  |
| 2/6/08 9:00 AM                   | 09:00 Evening | 1213  |
|                                  | 09:00 Timely  | 1213  |
| 2/6/08 5:00 PM                   | 17:00 ID1     | 1213  |
| 2/6/08 9:00 PM                   | 21:00 ID2     | 1213  |
| 2/8/08 9:00 AM                   | 09:00 Evening | 1213  |
|                                  | 09:00 Timely  | 1213  |
| 2/8/08 5:00 PM                   | 17:00 ID1     | 1213  |



| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
| 3/10/08 9:00 PM                  | 21:00 ID2     | 2286   |
| 3/11/08 9:00 AM                  | 09:00 Timely  | 20000  |
| 3/12/08 9:00 AM                  | 09:00 Timely  | 30000  |
| 3/21/08 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 3/21/08 5:00 PM                  | 17:00 ID1     | 400    |
| 3/21/08 9:00 PM                  | 21:00 ID2     | 400    |
| 3/22/08 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 3/22/08 5:00 PM                  | 17:00 ID1     | 400    |
| 3/22/08 9:00 PM                  | 21:00 ID2     | 400    |
| 3/23/08 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 3/23/08 5:00 PM                  | 17:00 ID1     | 400    |
| 3/23/08 9:00 PM                  | 21:00 ID2     | 400    |
| 3/24/08 9:00 AM                  | 09:00 Evening | 400    |
|                                  | 09:00 Timely  | 400    |
| 3/24/08 5:00 PM                  | 17:00 ID1     | 400    |
| 3/24/08 9:00 PM                  | 21:00 ID2     | 400    |
| 3/29/08 9:00 AM                  | 09:00 Evening | 500    |
|                                  | 09:00 Timely  | 500    |
| 3/29/08 5:00 PM                  | 17:00 ID1     | 500    |
| 3/29/08 9:00 PM                  | 21:00 ID2     | 500    |
| 3/30/08 9:00 AM                  | 09:00 Evening | 500    |
|                                  | 09:00 Timely  | 500    |
| 3/30/08 5:00 PM                  | 17:00 ID1     | 500    |
| 3/30/08 9:00 PM                  | 21:00 ID2     | 500    |
| 11/3/08 9:00 PM                  | 21:00 ID2     | 75087  |
| 12/8/08 9:00 AM                  | 09:00 Evening | 19759  |
| 12/8/08 5:00 PM                  | 17:00 ID1     | 5389   |
| 12/8/08 9:00 PM                  | 21:00 ID2     | 5389   |
| 12/10/08 9:00 PM                 | 21:00 ID2     | 27474  |
| 12/11/08 9:00 AM                 | 09:00 Evening | 87919  |
| 12/11/08 5:00 PM                 | 17:00 ID1     | 87919  |
| 12/11/08 9:00 PM                 | 21:00 ID2     | 87919  |
| 12/12/08 9:00 AM                 | 09:00 Evening | 45752  |
| 12/12/08 5:00 PM                 | 17:00 ID1     | 46142  |
| 12/12/08 9:00 PM                 | 21:00 ID2     | 22062  |
| 12/19/08 9:00 AM                 | 09:00 Evening | 4591   |
| 12/19/08 5:00 PM                 | 17:00 ID1     | 4591   |
| 12/19/08 9:00 PM                 | 21:00 ID2     | 54591  |
| 12/20/08 9:00 AM                 | 09:00 Evening | 195972 |
|                                  | 09:00 Timely  | 4591   |
| 12/20/08 5:00 PM                 | 17:00 ID1     | 227624 |
| 12/20/08 9:00 PM                 | 21:00 ID2     | 153577 |
| 12/21/08 9:00 AM                 | 09:00 Evening | 149092 |
|                                  | 09:00 Timely  | 4591   |
| 12/21/08 5:00 PM                 | 17:00 ID1     | 203092 |
| 12/21/08 9:00 PM                 | 21:00 ID2     | 199092 |
| 12/22/08 9:00 AM                 | 09:00 Evening | 156425 |
|                                  | 09:00 Timely  | 3249   |
| 12/22/08 5:00 PM                 | 17:00 ID1     | 153125 |
| 12/22/08 9:00 PM                 | 21:00 ID2     | 54363  |
| 12/23/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/23/08 5:00 PM                 | 17:00 ID1     | 38     |
| 12/23/08 9:00 PM                 | 21:00 ID2     | 38     |
| 12/24/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/25/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/26/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/27/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/28/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 12/29/08 9:00 AM                 | 09:00 Timely  | 2616   |
| 1/12/09 5:00 PM                  | 17:00 ID1     | 2      |
| 1/12/09 9:00 PM                  | 21:00 ID2     | 2      |
| 1/14/09 9:00 AM                  | 09:00 Evening | 44911  |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 2/8/08 9:00 PM                   | 21:00 ID2     | 1213  |
| 2/20/08 9:00 AM                  | 09:00 Evening | 12157 |
|                                  | 09:00 Timely  | 10829 |
| 2/20/08 5:00 PM                  | 17:00 ID1     | 12157 |
| 2/20/08 9:00 PM                  | 21:00 ID2     | 12157 |
| 2/21/08 9:00 AM                  | 09:00 Evening | 44823 |
|                                  | 09:00 Timely  | 44380 |
| 2/21/08 5:00 PM                  | 17:00 ID1     | 44823 |
| 2/21/08 9:00 PM                  | 21:00 ID2     | 44823 |
| 2/28/08 9:00 AM                  | 09:00 Evening | 13906 |
|                                  | 09:00 Timely  | 13906 |
| 2/28/08 5:00 PM                  | 17:00 ID1     | 13906 |
| 2/28/08 9:00 PM                  | 21:00 ID2     | 13906 |
| 3/1/08 9:00 AM                   | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/1/08 5:00 PM                   | 17:00 ID1     | 641   |
| 3/1/08 9:00 PM                   | 21:00 ID2     | 641   |
| 3/2/08 9:00 AM                   | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/2/08 5:00 PM                   | 17:00 ID1     | 641   |
| 3/2/08 9:00 PM                   | 21:00 ID2     | 641   |
| 3/3/08 9:00 AM                   | 09:00 Evening | 1441  |
|                                  | 09:00 Timely  | 1441  |
| 3/3/08 5:00 PM                   | 17:00 ID1     | 1441  |
| 3/3/08 9:00 PM                   | 21:00 ID2     | 1441  |
| 3/4/08 9:00 AM                   | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/4/08 5:00 PM                   | 17:00 ID1     | 641   |
| 3/4/08 9:00 PM                   | 21:00 ID2     | 641   |
| 3/5/08 9:00 AM                   | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/5/08 5:00 PM                   | 17:00 ID1     | 641   |
| 3/5/08 9:00 PM                   | 21:00 ID2     | 641   |
| 3/6/08 9:00 AM                   | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/6/08 5:00 PM                   | 17:00 ID1     | 641   |
| 3/6/08 9:00 PM                   | 21:00 ID2     | 641   |
| 3/17/08 9:00 AM                  | 09:00 Evening | 3000  |
|                                  | 09:00 Timely  | 3000  |
| 3/17/08 5:00 PM                  | 17:00 ID1     | 3000  |
| 3/17/08 9:00 PM                  | 21:00 ID2     | 3000  |
| 3/26/08 9:00 AM                  | 09:00 Evening | 641   |
|                                  | 09:00 Timely  | 641   |
| 3/26/08 5:00 PM                  | 17:00 ID1     | 641   |
| 3/26/08 9:00 PM                  | 21:00 ID2     | 641   |
| 3/27/08 9:00 PM                  | 21:00 ID2     | 1100  |
| 11/1/08 9:00 AM                  | 09:00 Evening | 1031  |
|                                  | 09:00 Timely  | 1031  |
| 11/1/08 5:00 PM                  | 17:00 ID1     | 1031  |
| 11/1/08 9:00 PM                  | 21:00 ID2     | 1031  |
| 11/2/08 9:00 AM                  | 09:00 Evening | 1031  |
|                                  | 09:00 Timely  | 1031  |
| 11/2/08 5:00 PM                  | 17:00 ID1     | 1031  |
| 11/2/08 9:00 PM                  | 21:00 ID2     | 1031  |
| 11/3/08 9:00 AM                  | 09:00 Evening | 1031  |
|                                  | 09:00 Timely  | 1031  |
| 11/3/08 5:00 PM                  | 17:00 ID1     | 1031  |
| 11/3/08 9:00 PM                  | 21:00 ID2     | 1031  |
| 12/7/08 9:00 PM                  | 21:00 ID2     | 30000 |
| 12/8/08 9:00 PM                  | 21:00 ID2     | 112   |
| 1/14/09 9:00 AM                  | 09:00 Evening | 750   |
|                                  | 09:00 Timely  | 750   |
| 1/14/09 5:00 PM                  | 17:00 ID1     | 750   |
| 1/14/09 9:00 PM                  | 21:00 ID2     | 750   |
| 1/15/09 9:00 AM                  | 09:00 Evening | 19934 |

| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
|                                  | 09:00 Timely  | 94911  |
| 1/14/09 5:00 PM                  | 17:00 ID1     | 44911  |
| 1/14/09 9:00 PM                  | 21:00 ID2     | 44911  |
| 1/15/09 9:00 AM                  | 09:00 Evening | 47724  |
|                                  | 09:00 Timely  | 2653   |
| 1/15/09 5:00 PM                  | 17:00 ID1     | 19     |
| 1/16/09 9:00 AM                  | 09:00 Timely  | 50000  |
| 1/17/09 9:00 AM                  | 09:00 Timely  | 3138   |
| 1/20/09 9:00 AM                  | 09:00 Timely  | 21102  |
| 1/24/09 9:00 AM                  | 09:00 Timely  | 2638   |
| 1/25/09 9:00 AM                  | 09:00 Timely  | 2638   |
| 1/26/09 9:00 AM                  | 09:00 Timely  | 2638   |
| 2/3/09 9:00 AM                   | 09:00 Timely  | 50000  |
| 2/4/09 9:00 AM                   | 09:00 Evening | 13064  |
|                                  | 09:00 Timely  | 104064 |
| 2/4/09 5:00 PM                   | 17:00 ID1     | 13064  |
| 2/4/09 9:00 PM                   | 21:00 ID2     | 13064  |
| 2/5/09 9:00 AM                   | 09:00 Timely  | 53947  |
| 2/6/09 9:00 AM                   | 09:00 Timely  | 50000  |
| 2/7/09 9:00 AM                   | 09:00 Timely  | 18252  |
| 2/8/09 9:00 AM                   | 09:00 Timely  | 18252  |
| 2/9/09 9:00 AM                   | 09:00 Timely  | 18252  |
| 2/9/09 5:00 PM                   | 17:00 ID1     | 369    |
| 2/17/09 5:00 PM                  | 17:00 ID1     | 369    |
| 2/18/09 5:00 PM                  | 17:00 ID1     | 211    |
| 2/28/09 9:00 AM                  | 09:00 Evening | 26743  |
|                                  | 09:00 Timely  | 26743  |
| 2/28/09 5:00 PM                  | 17:00 ID1     | 26743  |
| 2/28/09 9:00 PM                  | 21:00 ID2     | 26743  |
| 3/2/09 9:00 PM                   | 21:00 ID2     | 396    |
| 3/3/09 9:00 AM                   | 09:00 Timely  | 11     |
| 11/2/09 5:00 PM                  | 17:00 ID1     | 21101  |
| 11/2/09 9:00 PM                  | 21:00 ID2     | 21101  |
| 11/3/09 9:00 AM                  | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 1      |
| 11/3/09 5:00 PM                  | 17:00 ID1     | 1      |
| 11/3/09 9:00 PM                  | 21:00 ID2     | 1      |
| 11/4/09 9:00 PM                  | 21:00 ID2     | 8746   |
| 11/30/09 9:00 AM                 | 09:00 Evening | 1661   |
|                                  | 09:00 Timely  | 1661   |
| 11/30/09 5:00 PM                 | 17:00 ID1     | 1661   |
| 11/30/09 9:00 PM                 | 21:00 ID2     | 1661   |
| 12/11/09 9:00 AM                 | 09:00 Timely  | 11214  |
| 12/17/09 9:00 AM                 | 09:00 Timely  | 52753  |
| 12/18/09 9:00 AM                 | 09:00 Evening | 34314  |
|                                  | 09:00 Timely  | 607    |
| 12/18/09 5:00 PM                 | 17:00 ID1     | 607    |
| 12/18/09 9:00 PM                 | 21:00 ID2     | 607    |
| 12/19/09 9:00 AM                 | 09:00 Evening | 3      |
|                                  | 09:00 Timely  | 105071 |
| 12/19/09 5:00 PM                 | 17:00 ID1     | 3      |
| 12/19/09 9:00 PM                 | 21:00 ID2     | 3      |
| 12/20/09 9:00 AM                 | 09:00 Timely  | 105068 |
| 12/21/09 9:00 AM                 | 09:00 Timely  | 105068 |
| 12/22/09 9:00 AM                 | 09:00 Evening | 364    |
|                                  | 09:00 Timely  | 10068  |
| 12/23/09 9:00 AM                 | 09:00 Timely  | 10068  |
| 12/25/09 9:00 AM                 | 09:00 Evening | 1055   |
|                                  | 09:00 Timely  | 1055   |
| 12/25/09 5:00 PM                 | 17:00 ID1     | 1055   |
| 12/25/09 9:00 PM                 | 21:00 ID2     | 1055   |
| 12/29/09 9:00 AM                 | 09:00 Evening | 300    |
|                                  | 09:00 Timely  | 10551  |
| 12/29/09 5:00 PM                 | 17:00 ID1     | 300    |
| 12/29/09 9:00 PM                 | 21:00 ID2     | 300    |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
|                                  | 09:00 Timely  | 24403 |
| 1/16/09 9:00 AM                  | 09:00 Timely  | 27    |
| 1/24/09 9:00 AM                  | 09:00 Evening | 5000  |
|                                  | 09:00 Timely  | 5000  |
| 1/24/09 5:00 PM                  | 17:00 ID1     | 5000  |
| 1/24/09 9:00 PM                  | 21:00 ID2     | 5000  |
| 1/25/09 9:00 AM                  | 09:00 Evening | 5000  |
|                                  | 09:00 Timely  | 5000  |
| 1/25/09 5:00 PM                  | 17:00 ID1     | 5000  |
| 1/25/09 9:00 PM                  | 21:00 ID2     | 5000  |
| 1/26/09 9:00 AM                  | 09:00 Evening | 5000  |
|                                  | 09:00 Timely  | 5000  |
| 1/26/09 5:00 PM                  | 17:00 ID1     | 5000  |
| 1/26/09 9:00 PM                  | 21:00 ID2     | 5000  |
| 1/31/09 9:00 AM                  | 09:00 Evening | 8833  |
|                                  | 09:00 Timely  | 8833  |
| 1/31/09 5:00 PM                  | 17:00 ID1     | 8833  |
| 1/31/09 9:00 PM                  | 21:00 ID2     | 8833  |
| 2/3/09 9:00 AM                   | 09:00 Evening | 20000 |
|                                  | 09:00 Timely  | 20000 |
| 2/3/09 5:00 PM                   | 17:00 ID1     | 20000 |
| 2/3/09 9:00 PM                   | 21:00 ID2     | 20000 |
| 2/7/09 9:00 AM                   | 09:00 Evening | 2166  |
|                                  | 09:00 Timely  | 2166  |
| 2/7/09 5:00 PM                   | 17:00 ID1     | 2166  |
| 2/7/09 9:00 PM                   | 21:00 ID2     | 2166  |
| 2/8/09 9:00 AM                   | 09:00 Evening | 2166  |
|                                  | 09:00 Timely  | 2166  |
| 2/8/09 5:00 PM                   | 17:00 ID1     | 2166  |
| 2/8/09 9:00 PM                   | 21:00 ID2     | 2166  |
| 2/9/09 9:00 AM                   | 09:00 Evening | 2366  |
|                                  | 09:00 Timely  | 2366  |
| 2/9/09 5:00 PM                   | 17:00 ID1     | 2366  |
| 2/9/09 9:00 PM                   | 21:00 ID2     | 2366  |
| 2/14/09 9:00 AM                  | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 2/14/09 5:00 PM                  | 17:00 ID1     | 1000  |
| 2/14/09 9:00 PM                  | 21:00 ID2     | 1000  |
| 2/15/09 9:00 AM                  | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 2/15/09 5:00 PM                  | 17:00 ID1     | 1000  |
| 2/15/09 9:00 PM                  | 21:00 ID2     | 1000  |
| 2/16/09 9:00 AM                  | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 2/16/09 5:00 PM                  | 17:00 ID1     | 1000  |
| 2/16/09 9:00 PM                  | 21:00 ID2     | 1000  |
| 2/17/09 9:00 AM                  | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 2/17/09 5:00 PM                  | 17:00 ID1     | 1000  |
| 2/17/09 9:00 PM                  | 21:00 ID2     | 1000  |
| 2/23/09 5:00 PM                  | 17:00 ID1     | 1000  |
| 2/23/09 9:00 PM                  | 21:00 ID2     | 1000  |
| 2/26/09 9:00 AM                  | 09:00 Evening | 3641  |
|                                  | 09:00 Timely  | 3641  |
| 2/26/09 5:00 PM                  | 17:00 ID1     | 3641  |
| 2/26/09 9:00 PM                  | 21:00 ID2     | 3641  |
| 3/3/09 9:00 AM                   | 09:00 Evening | 6052  |
|                                  | 09:00 Timely  | 6052  |
| 3/3/09 5:00 PM                   | 17:00 ID1     | 6052  |
| 3/3/09 9:00 PM                   | 21:00 ID2     | 6052  |
| 3/6/09 9:00 AM                   | 09:00 Evening | 2000  |
|                                  | 09:00 Timely  | 2000  |
| 3/6/09 5:00 PM                   | 17:00 ID1     | 2000  |
| 3/6/09 9:00 PM                   | 21:00 ID2     | 2000  |
| 3/23/09 9:00 AM                  | 09:00 Evening | 45000 |

| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
| 1/1/10 9:00 AM                   | 09:00 Evening | 9499   |
| 1/1/10 9:00 PM                   | 21:00 ID2     | 8745   |
| 1/2/10 9:00 AM                   | 09:00 Evening | 15683  |
| 1/3/10 9:00 AM                   | 09:00 Evening | 12674  |
| 1/4/10 9:00 AM                   | 09:00 Evening | 12147  |
| 1/5/10 9:00 AM                   | 09:00 Evening | 48113  |
|                                  | 09:00 Timely  | 10068  |
| 1/5/10 5:00 PM                   | 17:00 ID1     | 17593  |
| 1/5/10 9:00 PM                   | 21:00 ID2     | 17593  |
| 1/6/10 9:00 AM                   | 09:00 Evening | 20688  |
|                                  | 09:00 Timely  | 10068  |
| 1/6/10 5:00 PM                   | 17:00 ID1     | 20689  |
| 1/6/10 9:00 PM                   | 21:00 ID2     | 20689  |
| 1/7/10 5:00 PM                   | 17:00 ID1     | 1      |
| 1/7/10 9:00 PM                   | 21:00 ID2     | 1      |
| 1/8/10 9:00 AM                   | 09:00 Evening | 129    |
|                                  | 09:00 Timely  | 1      |
| 1/9/10 9:00 AM                   | 09:00 Evening | 4399   |
|                                  | 09:00 Timely  | 1790   |
| 1/10/10 9:00 AM                  | 09:00 Timely  | 1790   |
| 1/11/10 9:00 AM                  | 09:00 Timely  | 1790   |
| 1/12/10 9:00 AM                  | 09:00 Evening | 16342  |
|                                  | 09:00 Timely  | 11858  |
| 1/12/10 5:00 PM                  | 17:00 ID1     | 16343  |
| 1/12/10 9:00 PM                  | 21:00 ID2     | 5843   |
| 1/13/10 9:00 AM                  | 09:00 Timely  | 11858  |
| 1/14/10 9:00 AM                  | 09:00 Timely  | 16500  |
| 1/15/10 9:00 AM                  | 09:00 Timely  | 48895  |
| 1/16/10 9:00 AM                  | 09:00 Timely  | 41721  |
| 1/17/10 9:00 AM                  | 09:00 Timely  | 41721  |
| 1/18/10 9:00 AM                  | 09:00 Timely  | 41721  |
| 1/19/10 9:00 AM                  | 09:00 Timely  | 41721  |
| 1/20/10 9:00 AM                  | 09:00 Timely  | 32128  |
| 1/21/10 9:00 AM                  | 09:00 Evening | 800    |
|                                  | 09:00 Timely  | 17208  |
| 1/21/10 5:00 PM                  | 17:00 ID1     | 800    |
| 1/21/10 9:00 PM                  | 21:00 ID2     | 9571   |
| 1/22/10 9:00 AM                  | 09:00 Evening | 100469 |
|                                  | 09:00 Timely  | 15449  |
| 1/28/10 9:00 AM                  | 09:00 Timely  | 18096  |
| 1/29/10 9:00 AM                  | 09:00 Timely  | 20682  |
| 1/30/10 9:00 AM                  | 09:00 Timely  | 20682  |
| 1/31/10 9:00 AM                  | 09:00 Evening | 1463   |
|                                  | 09:00 Timely  | 20682  |
| 2/1/10 9:00 AM                   | 09:00 Evening | 80     |
|                                  | 09:00 Timely  | 15592  |
| 2/1/10 5:00 PM                   | 17:00 ID1     | 80     |
| 2/1/10 9:00 PM                   | 21:00 ID2     | 4504   |
| 2/2/10 9:00 AM                   | 09:00 Timely  | 5449   |
| 2/3/10 9:00 AM                   | 09:00 Evening | 19514  |
|                                  | 09:00 Timely  | 40956  |
| 2/3/10 5:00 PM                   | 17:00 ID1     | 19514  |
| 2/3/10 9:00 PM                   | 21:00 ID2     | 19514  |
| 2/4/10 9:00 AM                   | 09:00 Evening | 100    |
|                                  | 09:00 Timely  | 11463  |
| 2/4/10 5:00 PM                   | 17:00 ID1     | 100    |
| 2/4/10 9:00 PM                   | 21:00 ID2     | 100    |
| 2/5/10 9:00 AM                   | 09:00 Timely  | 16658  |
| 2/6/10 9:00 AM                   | 09:00 Evening | 500    |
|                                  | 09:00 Timely  | 500    |
| 2/6/10 5:00 PM                   | 17:00 ID1     | 500    |
| 2/6/10 9:00 PM                   | 21:00 ID2     | 500    |
| 2/7/10 9:00 AM                   | 09:00 Evening | 500    |
|                                  | 09:00 Timely  | 500    |
| 2/7/10 5:00 PM                   | 17:00 ID1     | 500    |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
|                                  | 09:00 Timely  | 45000 |
| 3/23/09 5:00 PM                  | 17:00 ID1     | 15000 |
| 3/23/09 9:00 PM                  | 21:00 ID2     | 15000 |
| 11/17/09 9:00 AM                 | 09:00 Evening | 1276  |
|                                  | 09:00 Timely  | 1276  |
| 11/17/09 5:00 PM                 | 17:00 ID1     | 1276  |
| 11/17/09 9:00 PM                 | 21:00 ID2     | 1276  |
| 12/16/09 9:00 AM                 | 09:00 Evening | 20000 |
|                                  | 09:00 Timely  | 40000 |
| 12/16/09 5:00 PM                 | 17:00 ID1     | 20000 |
| 12/16/09 9:00 PM                 | 21:00 ID2     | 20000 |
| 12/17/09 9:00 AM                 | 09:00 Timely  | 20000 |
| 12/22/09 9:00 PM                 | 21:00 ID2     | 7000  |
| 12/29/09 9:00 AM                 | 09:00 Evening | 3750  |
| 12/29/09 5:00 PM                 | 17:00 ID1     | 3750  |
| 12/29/09 9:00 PM                 | 21:00 ID2     | 3750  |
| 1/13/10 9:00 AM                  | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 1/13/10 5:00 PM                  | 17:00 ID1     | 1000  |
| 1/13/10 9:00 PM                  | 21:00 ID2     | 1000  |
| 1/21/10 9:00 AM                  | 09:00 Evening | 1000  |
| 1/21/10 5:00 PM                  | 17:00 ID1     | 1000  |
| 1/21/10 9:00 PM                  | 21:00 ID2     | 1000  |
| 1/22/10 9:00 AM                  | 09:00 Timely  | 4000  |
| 1/29/10 9:00 AM                  | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 1/29/10 5:00 PM                  | 17:00 ID1     | 1     |
| 1/29/10 9:00 PM                  | 21:00 ID2     | 1     |
| 1/30/10 9:00 AM                  | 09:00 Evening | 2     |
|                                  | 09:00 Timely  | 1     |
| 1/30/10 5:00 PM                  | 17:00 ID1     | 2     |
| 1/30/10 9:00 PM                  | 21:00 ID2     | 2     |
| 1/31/10 9:00 AM                  | 09:00 Evening | 2     |
|                                  | 09:00 Timely  | 2     |
| 1/31/10 5:00 PM                  | 17:00 ID1     | 2     |
| 1/31/10 9:00 PM                  | 21:00 ID2     | 2     |
| 2/1/10 9:00 AM                   | 09:00 Evening | 12191 |
|                                  | 09:00 Timely  | 47934 |
| 2/1/10 5:00 PM                   | 17:00 ID1     | 12191 |
| 2/1/10 9:00 PM                   | 21:00 ID2     | 12191 |
| 2/2/10 9:00 AM                   | 09:00 Evening | 25541 |
|                                  | 09:00 Timely  | 41437 |
| 2/2/10 5:00 PM                   | 17:00 ID1     | 25090 |
| 2/2/10 9:00 PM                   | 21:00 ID2     | 25090 |
| 2/3/10 9:00 AM                   | 09:00 Evening | 4809  |
|                                  | 09:00 Timely  | 54529 |
| 2/3/10 5:00 PM                   | 17:00 ID1     | 4809  |
| 2/3/10 9:00 PM                   | 21:00 ID2     | 4809  |
| 2/4/10 9:00 AM                   | 09:00 Evening | 4793  |
|                                  | 09:00 Timely  | 38708 |
| 2/4/10 5:00 PM                   | 17:00 ID1     | 90    |
| 2/4/10 9:00 PM                   | 21:00 ID2     | 90    |
| 2/5/10 9:00 AM                   | 09:00 Evening | 4290  |
|                                  | 09:00 Timely  | 6768  |
| 2/5/10 5:00 PM                   | 17:00 ID1     | 4290  |
| 2/5/10 9:00 PM                   | 21:00 ID2     | 4290  |
| 2/6/10 9:00 AM                   | 09:00 Evening | 46    |
|                                  | 09:00 Timely  | 20550 |
| 2/6/10 5:00 PM                   | 17:00 ID1     | 46    |
| 2/6/10 9:00 PM                   | 21:00 ID2     | 46    |
| 2/7/10 9:00 AM                   | 09:00 Evening | 46    |
|                                  | 09:00 Timely  | 20550 |
| 2/7/10 5:00 PM                   | 17:00 ID1     | 46    |
| 2/7/10 9:00 PM                   | 21:00 ID2     | 46    |
| 2/8/10 9:00 AM                   | 09:00 Evening | 46    |

| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 2/7/10 9:00 PM                   | 21:00 ID2     | 500   |
| 2/8/10 9:00 AM                   | 09:00 Evening | 500   |
|                                  | 09:00 Timely  | 500   |
| 2/8/10 5:00 PM                   | 17:00 ID1     | 500   |
| 2/8/10 9:00 PM                   | 21:00 ID2     | 500   |
| 2/10/10 9:00 AM                  | 09:00 Evening | 249   |
|                                  | 09:00 Timely  | 249   |
| 2/10/10 5:00 PM                  | 17:00 ID1     | 249   |
| 2/10/10 9:00 PM                  | 21:00 ID2     | 249   |
| 2/13/10 9:00 AM                  | 09:00 Evening | 150   |
| 2/13/10 5:00 PM                  | 17:00 ID1     | 150   |
| 2/13/10 9:00 PM                  | 21:00 ID2     | 150   |
| 2/14/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 2/14/10 5:00 PM                  | 17:00 ID1     | 150   |
| 2/14/10 9:00 PM                  | 21:00 ID2     | 150   |
| 2/15/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 2/15/10 5:00 PM                  | 17:00 ID1     | 150   |
| 2/15/10 9:00 PM                  | 21:00 ID2     | 150   |
| 2/16/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 2/16/10 5:00 PM                  | 17:00 ID1     | 150   |
| 2/16/10 9:00 PM                  | 21:00 ID2     | 150   |
| 2/17/10 9:00 AM                  | 09:00 Timely  | 17080 |
| 2/20/10 9:00 AM                  | 09:00 Evening | 500   |
| 2/20/10 5:00 PM                  | 17:00 ID1     | 500   |
| 2/20/10 9:00 PM                  | 21:00 ID2     | 500   |
| 2/21/10 9:00 AM                  | 09:00 Evening | 500   |
|                                  | 09:00 Timely  | 500   |
| 2/21/10 5:00 PM                  | 17:00 ID1     | 500   |
| 2/21/10 9:00 PM                  | 21:00 ID2     | 500   |
| 2/22/10 9:00 AM                  | 09:00 Evening | 500   |
|                                  | 09:00 Timely  | 500   |
| 2/22/10 5:00 PM                  | 17:00 ID1     | 500   |
| 2/22/10 9:00 PM                  | 21:00 ID2     | 500   |
| 2/23/10 9:00 PM                  | 21:00 ID2     | 500   |
| 2/24/10 9:00 AM                  | 09:00 Evening | 500   |
| 2/24/10 5:00 PM                  | 17:00 ID1     | 500   |
| 2/24/10 9:00 PM                  | 21:00 ID2     | 500   |
| 2/27/10 9:00 AM                  | 09:00 Evening | 200   |
| 2/27/10 5:00 PM                  | 17:00 ID1     | 200   |
| 2/27/10 9:00 PM                  | 21:00 ID2     | 200   |
| 2/28/10 9:00 AM                  | 09:00 Evening | 200   |
|                                  | 09:00 Timely  | 200   |
| 2/28/10 5:00 PM                  | 17:00 ID1     | 200   |
| 2/28/10 9:00 PM                  | 21:00 ID2     | 200   |
| 3/2/10 5:00 PM                   | 17:00 ID1     | 11733 |
| 3/2/10 9:00 PM                   | 21:00 ID2     | 11733 |
| 3/3/10 9:00 AM                   | 09:00 Evening | 400   |
|                                  | 09:00 Timely  | 400   |
| 3/3/10 5:00 PM                   | 17:00 ID1     | 400   |
| 3/3/10 9:00 PM                   | 21:00 ID2     | 400   |
| 3/5/10 9:00 AM                   | 09:00 Evening | 500   |
|                                  | 09:00 Timely  | 500   |
| 3/5/10 5:00 PM                   | 17:00 ID1     | 500   |
| 3/5/10 9:00 PM                   | 21:00 ID2     | 500   |
| 3/6/10 9:00 AM                   | 09:00 Evening | 2309  |
|                                  | 09:00 Timely  | 100   |
| 3/6/10 5:00 PM                   | 17:00 ID1     | 2309  |
| 3/6/10 9:00 PM                   | 21:00 ID2     | 2309  |
| 3/7/10 9:00 AM                   | 09:00 Evening | 2309  |
|                                  | 09:00 Timely  | 2309  |
| 3/7/10 5:00 PM                   | 17:00 ID1     | 2309  |
| 3/7/10 9:00 PM                   | 21:00 ID2     | 2309  |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
|                                  | 09:00 Timely  | 20550 |
| 2/8/10 5:00 PM                   | 17:00 ID1     | 46    |
| 2/8/10 9:00 PM                   | 21:00 ID2     | 46    |
| 2/9/10 9:00 AM                   | 09:00 Evening | 90    |
|                                  | 09:00 Timely  | 90    |
| 2/9/10 5:00 PM                   | 17:00 ID1     | 90    |
| 2/9/10 9:00 PM                   | 21:00 ID2     | 90    |
| 2/10/10 9:00 AM                  | 09:00 Evening | 90    |
|                                  | 09:00 Timely  | 90    |
| 2/10/10 5:00 PM                  | 17:00 ID1     | 90    |
| 2/10/10 9:00 PM                  | 21:00 ID2     | 90    |
| 2/11/10 9:00 AM                  | 09:00 Evening | 90    |
|                                  | 09:00 Timely  | 90    |
| 2/11/10 5:00 PM                  | 17:00 ID1     | 90    |
| 2/11/10 9:00 PM                  | 21:00 ID2     | 90    |
| 2/12/10 9:00 AM                  | 09:00 Evening | 90    |
|                                  | 09:00 Timely  | 90    |
| 2/12/10 5:00 PM                  | 17:00 ID1     | 90    |
| 2/12/10 9:00 PM                  | 21:00 ID2     | 90    |
| 2/13/10 9:00 AM                  | 09:00 Evening | 252   |
|                                  | 09:00 Timely  | 52    |
| 2/13/10 5:00 PM                  | 17:00 ID1     | 252   |
| 2/13/10 9:00 PM                  | 21:00 ID2     | 252   |
| 2/14/10 9:00 AM                  | 09:00 Evening | 252   |
|                                  | 09:00 Timely  | 252   |
| 2/14/10 5:00 PM                  | 17:00 ID1     | 252   |
| 2/14/10 9:00 PM                  | 21:00 ID2     | 252   |
| 2/15/10 9:00 AM                  | 09:00 Evening | 252   |
|                                  | 09:00 Timely  | 252   |
| 2/15/10 5:00 PM                  | 17:00 ID1     | 252   |
| 2/15/10 9:00 PM                  | 21:00 ID2     | 252   |
| 2/16/10 9:00 AM                  | 09:00 Evening | 252   |
|                                  | 09:00 Timely  | 252   |
| 2/16/10 5:00 PM                  | 17:00 ID1     | 552   |
| 2/16/10 9:00 PM                  | 21:00 ID2     | 552   |
| 2/17/10 9:00 AM                  | 09:00 Evening | 18561 |
|                                  | 09:00 Timely  | 18561 |
| 2/17/10 5:00 PM                  | 17:00 ID1     | 18561 |
| 2/17/10 9:00 PM                  | 21:00 ID2     | 18561 |
| 2/18/10 9:00 AM                  | 09:00 Evening | 18561 |
|                                  | 09:00 Timely  | 18561 |
| 2/18/10 5:00 PM                  | 17:00 ID1     | 18561 |
| 2/18/10 9:00 PM                  | 21:00 ID2     | 18561 |
| 2/19/10 9:00 AM                  | 09:00 Evening | 52    |
|                                  | 09:00 Timely  | 52    |
| 2/19/10 5:00 PM                  | 17:00 ID1     | 52    |
| 2/19/10 9:00 PM                  | 21:00 ID2     | 52    |
| 2/22/10 5:00 PM                  | 17:00 ID1     | 500   |
| 2/22/10 9:00 PM                  | 21:00 ID2     | 500   |
| 3/1/10 9:00 AM                   | 09:00 Evening | 82    |
|                                  | 09:00 Timely  | 82    |
| 3/1/10 5:00 PM                   | 17:00 ID1     | 82    |
| 3/1/10 9:00 PM                   | 21:00 ID2     | 82    |
| 3/2/10 9:00 AM                   | 09:00 Evening | 82    |
|                                  | 09:00 Timely  | 4785  |
| 3/2/10 5:00 PM                   | 17:00 ID1     | 82    |
| 3/2/10 9:00 PM                   | 21:00 ID2     | 82    |
| 3/3/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/3/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/3/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 3/4/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/4/10 5:00 PM                   | 17:00 ID1     | 3000  |
| 3/4/10 9:00 PM                   | 21:00 ID2     | 3000  |

| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 3/8/10 9:00 AM                   | 09:00 Evening | 2309  |
|                                  | 09:00 Timely  | 2309  |
| 3/8/10 5:00 PM                   | 17:00 ID1     | 2309  |
| 3/8/10 9:00 PM                   | 21:00 ID2     | 2309  |
| 3/9/10 9:00 AM                   | 09:00 Evening | 158   |
|                                  | 09:00 Timely  | 158   |
| 3/9/10 5:00 PM                   | 17:00 ID1     | 158   |
| 3/9/10 9:00 PM                   | 21:00 ID2     | 158   |
| 3/19/10 9:00 PM                  | 21:00 ID2     | 8799  |
| 3/20/10 9:00 AM                  | 09:00 Evening | 17599 |
| 3/20/10 5:00 PM                  | 17:00 ID1     | 17599 |
| 3/20/10 9:00 PM                  | 21:00 ID2     | 17599 |
| 3/21/10 9:00 AM                  | 09:00 Evening | 8803  |
|                                  | 09:00 Timely  | 8803  |
| 3/21/10 5:00 PM                  | 17:00 ID1     | 8803  |
| 3/21/10 9:00 PM                  | 21:00 ID2     | 13201 |
| 3/22/10 9:00 AM                  | 09:00 Evening | 5209  |
|                                  | 09:00 Timely  | 5209  |
| 3/22/10 5:00 PM                  | 17:00 ID1     | 5209  |
| 3/22/10 9:00 PM                  | 21:00 ID2     | 11404 |
| 3/23/10 9:00 AM                  | 09:00 Evening | 300   |
|                                  | 09:00 Timely  | 300   |
| 3/23/10 5:00 PM                  | 17:00 ID1     | 300   |
| 3/23/10 9:00 PM                  | 21:00 ID2     | 300   |
| 3/27/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 3/27/10 5:00 PM                  | 17:00 ID1     | 150   |
| 3/27/10 9:00 PM                  | 21:00 ID2     | 150   |
| 3/28/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 3/28/10 5:00 PM                  | 17:00 ID1     | 150   |
| 3/28/10 9:00 PM                  | 21:00 ID2     | 150   |
| 3/29/10 9:00 AM                  | 09:00 Evening | 150   |
|                                  | 09:00 Timely  | 150   |
| 3/29/10 5:00 PM                  | 17:00 ID1     | 150   |
| 3/29/10 9:00 PM                  | 21:00 ID2     | 150   |
| 3/31/10 9:00 AM                  | 09:00 Evening | 500   |
|                                  | 09:00 Timely  | 500   |
| 3/31/10 5:00 PM                  | 17:00 ID1     | 500   |
| 3/31/10 9:00 PM                  | 21:00 ID2     | 500   |
| 11/24/10 9:00 AM                 | 09:00 Evening | 20890 |
| 11/24/10 5:00 PM                 | 17:00 ID1     | 4537  |
| 11/24/10 9:00 PM                 | 21:00 ID2     | 7119  |
| 11/25/10 9:00 AM                 | 09:00 Evening | 13162 |
| 11/26/10 9:00 AM                 | 09:00 Evening | 9425  |
| 11/28/10 9:00 AM                 | 09:00 Evening | 10298 |
| 11/29/10 9:00 AM                 | 09:00 Evening | 10130 |
| 12/2/10 9:00 AM                  | 09:00 Evening | 9723  |
| 12/7/10 9:00 AM                  | 09:00 Evening | 14099 |
| 12/7/10 5:00 PM                  | 17:00 ID1     | 13087 |
| 12/7/10 9:00 PM                  | 21:00 ID2     | 12109 |
| 12/8/10 9:00 AM                  | 09:00 Evening | 1287  |
| 12/8/10 5:00 PM                  | 17:00 ID1     | 1287  |
| 12/8/10 9:00 PM                  | 21:00 ID2     | 1287  |
| 12/9/10 9:00 AM                  | 09:00 Evening | 4630  |
| 12/9/10 5:00 PM                  | 17:00 ID1     | 4630  |
| 12/9/10 9:00 PM                  | 21:00 ID2     | 4630  |
| 12/10/10 9:00 AM                 | 09:00 Evening | 8372  |
|                                  | 09:00 Timely  | 306   |
| 12/10/10 5:00 PM                 | 17:00 ID1     | 306   |
| 12/10/10 9:00 PM                 | 21:00 ID2     | 306   |
| 12/12/10 9:00 AM                 | 09:00 Evening | 156   |
| 12/13/10 9:00 AM                 | 09:00 Evening | 3457  |
| 12/13/10 5:00 PM                 | 17:00 ID1     | 3457  |
| 12/13/10 9:00 PM                 | 21:00 ID2     | 3457  |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 3/5/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/5/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/5/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 3/6/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/6/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/6/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 3/7/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/7/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/7/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 3/8/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/8/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/8/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 3/9/10 9:00 AM                   | 09:00 Evening | 1000  |
|                                  | 09:00 Timely  | 1000  |
| 3/9/10 5:00 PM                   | 17:00 ID1     | 1000  |
| 3/9/10 9:00 PM                   | 21:00 ID2     | 1000  |
| 12/14/10 9:00 AM                 | 09:00 Evening | 25801 |
| 12/14/10 5:00 PM                 | 17:00 ID1     | 26108 |
| 12/14/10 9:00 PM                 | 21:00 ID2     | 26108 |
| 12/15/10 9:00 AM                 | 09:00 Evening | 12650 |
| 12/15/10 5:00 PM                 | 17:00 ID1     | 12650 |
| 12/15/10 9:00 PM                 | 21:00 ID2     | 12650 |
| 1/16/11 9:00 AM                  | 09:00 Evening | 40000 |
| 1/16/11 5:00 PM                  | 17:00 ID1     | 40000 |
| 1/16/11 9:00 PM                  | 21:00 ID2     | 40000 |
| 1/17/11 9:00 AM                  | 09:00 Evening | 30000 |
|                                  | 09:00 Timely  | 30000 |
| 1/17/11 5:00 PM                  | 17:00 ID1     | 30000 |
| 1/17/11 9:00 PM                  | 21:00 ID2     | 30000 |
| 1/24/11 5:00 PM                  | 17:00 ID1     | 3312  |
| 1/31/11 9:00 AM                  | 09:00 Timely  | 1000  |
| 2/1/11 9:00 AM                   | 09:00 Evening | 2683  |
| 2/9/11 9:00 AM                   | 09:00 Evening | 4536  |
| 2/9/11 5:00 PM                   | 17:00 ID1     | 4512  |
| 2/9/11 9:00 PM                   | 21:00 ID2     | 4489  |
| 2/28/11 9:00 AM                  | 09:00 Evening | 321   |
|                                  | 09:00 Timely  | 1008  |
| 3/2/11 9:00 AM                   | 09:00 Evening | 8050  |
|                                  | 09:00 Timely  | 17250 |
| 3/2/11 5:00 PM                   | 17:00 ID1     | 8050  |
| 3/2/11 9:00 PM                   | 21:00 ID2     | 8050  |
| 3/3/11 9:00 AM                   | 09:00 Evening | 29205 |
|                                  | 09:00 Timely  | 29205 |
| 3/3/11 5:00 PM                   | 17:00 ID1     | 29330 |
| 3/3/11 9:00 PM                   | 21:00 ID2     | 29205 |
| 3/8/11 9:00 AM                   | 09:00 Timely  | 9200  |
| 12/17/11 5:00 PM                 | 17:00 ID1     | 35000 |
| 12/17/11 9:00 PM                 | 21:00 ID2     | 35000 |
| 12/28/11 9:00 AM                 | 09:00 Evening | 5275  |
|                                  | 09:00 Timely  | 25000 |
| 12/28/11 5:00 PM                 | 17:00 ID1     | 5154  |
| 12/28/11 9:00 PM                 | 21:00 ID2     | 5154  |
| 12/29/11 9:00 AM                 | 09:00 Evening | 448   |
|                                  | 09:00 Timely  | 50010 |
| 12/29/11 5:00 PM                 | 17:00 ID1     | 460   |
| 12/29/11 9:00 PM                 | 21:00 ID2     | 460   |
| 12/30/11 9:00 AM                 | 09:00 Timely  | 4000  |
| 12/31/11 9:00 AM                 | 09:00 Timely  | 20    |
| 1/3/12 9:00 AM                   | 09:00 Evening | 23902 |
|                                  | 09:00 Timely  | 74912 |
| 1/3/12 5:00 PM                   | 17:00 ID1     | 13902 |

| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 12/14/10 9:00 AM                 | 09:00 Evening | 1592  |
|                                  | 09:00 Timely  | 1014  |
| 12/14/10 5:00 PM                 | 17:00 ID1     | 1592  |
| 12/14/10 9:00 PM                 | 21:00 ID2     | 685   |
| 12/15/10 9:00 AM                 | 09:00 Evening | 11853 |
|                                  | 09:00 Timely  | 3213  |
| 12/15/10 5:00 PM                 | 17:00 ID1     | 8007  |
| 12/15/10 9:00 PM                 | 21:00 ID2     | 5219  |
| 12/16/10 9:00 AM                 | 09:00 Evening | 2355  |
|                                  | 09:00 Timely  | 5575  |
| 12/16/10 5:00 PM                 | 17:00 ID1     | 2355  |
| 12/16/10 9:00 PM                 | 21:00 ID2     | 800   |
| 12/24/10 9:00 AM                 | 09:00 Evening | 2744  |
| 12/24/10 5:00 PM                 | 17:00 ID1     | 331   |
| 12/24/10 9:00 PM                 | 21:00 ID2     | 331   |
| 12/25/10 9:00 AM                 | 09:00 Evening | 1970  |
|                                  | 09:00 Timely  | 331   |
| 12/25/10 5:00 PM                 | 17:00 ID1     | 331   |
| 12/25/10 9:00 PM                 | 21:00 ID2     | 331   |
| 12/26/10 9:00 AM                 | 09:00 Evening | 4211  |
|                                  | 09:00 Timely  | 331   |
| 12/26/10 5:00 PM                 | 17:00 ID1     | 1345  |
| 12/26/10 9:00 PM                 | 21:00 ID2     | 448   |
| 12/27/10 9:00 AM                 | 09:00 Evening | 6850  |
| 12/27/10 5:00 PM                 | 17:00 ID1     | 4976  |
| 12/27/10 9:00 PM                 | 21:00 ID2     | 4976  |
| 12/28/10 9:00 AM                 | 09:00 Evening | 3800  |
| 12/28/10 5:00 PM                 | 17:00 ID1     | 3800  |
| 12/28/10 9:00 PM                 | 21:00 ID2     | 3800  |
| 12/29/10 9:00 AM                 | 09:00 Evening | 7905  |
| 12/29/10 5:00 PM                 | 17:00 ID1     | 8525  |
| 12/29/10 9:00 PM                 | 21:00 ID2     | 8318  |
| 1/4/11 9:00 AM                   | 09:00 Evening | 3     |
| 1/5/11 9:00 AM                   | 09:00 Evening | 15    |
| 1/5/11 5:00 PM                   | 17:00 ID1     | 8     |
| 1/5/11 9:00 PM                   | 21:00 ID2     | 8     |
| 1/6/11 9:00 AM                   | 09:00 Evening | 35    |
| 1/6/11 5:00 PM                   | 17:00 ID1     | 16    |
| 1/6/11 9:00 PM                   | 21:00 ID2     | 16    |
| 1/7/11 9:00 AM                   | 09:00 Evening | 2032  |
| 1/7/11 5:00 PM                   | 17:00 ID1     | 1771  |
| 1/7/11 9:00 PM                   | 21:00 ID2     | 1016  |
| 1/9/11 9:00 AM                   | 09:00 Evening | 856   |
| 1/10/11 9:00 AM                  | 09:00 Evening | 1879  |
|                                  | 09:00 Timely  | 2251  |
| 1/10/11 5:00 PM                  | 17:00 ID1     | 679   |
| 1/10/11 9:00 PM                  | 21:00 ID2     | 679   |
| 1/12/11 9:00 AM                  | 09:00 Evening | 1821  |
| 1/12/11 5:00 PM                  | 17:00 ID1     | 1821  |
| 1/12/11 9:00 PM                  | 21:00 ID2     | 1821  |
| 1/13/11 9:00 AM                  | 09:00 Evening | 1058  |
| 1/13/11 5:00 PM                  | 17:00 ID1     | 1058  |
| 1/13/11 9:00 PM                  | 21:00 ID2     | 1058  |
| 1/14/11 9:00 AM                  | 09:00 Evening | 2729  |
| 1/14/11 5:00 PM                  | 17:00 ID1     | 2245  |
| 1/14/11 9:00 PM                  | 21:00 ID2     | 1396  |
| 1/15/11 9:00 AM                  | 09:00 Evening | 43    |
| 1/16/11 9:00 AM                  | 09:00 Evening | 922   |
| 1/16/11 5:00 PM                  | 17:00 ID1     | 678   |
| 1/16/11 9:00 PM                  | 21:00 ID2     | 678   |
| 1/17/11 9:00 AM                  | 09:00 Evening | 726   |
|                                  | 09:00 Timely  | 2000  |
| 1/17/11 5:00 PM                  | 17:00 ID1     | 107   |
| 1/17/11 9:00 PM                  | 21:00 ID2     | 107   |
| 1/18/11 9:00 AM                  | 09:00 Evening | 3420  |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 1/3/12 9:00 PM                   | 21:00 ID2     | 13902 |
| 1/4/12 9:00 AM                   | 09:00 Timely  | 21    |
| 1/6/12 9:00 AM                   | 09:00 Timely  | 5100  |
| 1/13/12 9:00 AM                  | 09:00 Timely  | 8018  |
| 1/14/12 9:00 AM                  | 09:00 Evening | 35352 |
|                                  | 09:00 Timely  | 35351 |
| 1/14/12 5:00 PM                  | 17:00 ID1     | 35352 |
| 1/14/12 9:00 PM                  | 21:00 ID2     | 35352 |
| 1/15/12 9:00 AM                  | 09:00 Evening | 37074 |
|                                  | 09:00 Timely  | 70254 |
| 1/15/12 5:00 PM                  | 17:00 ID1     | 37046 |
| 1/15/12 9:00 PM                  | 21:00 ID2     | 37046 |
| 1/16/12 9:00 AM                  | 09:00 Evening | 37852 |
|                                  | 09:00 Timely  | 69534 |
| 1/16/12 5:00 PM                  | 17:00 ID1     | 37852 |
| 1/16/12 9:00 PM                  | 21:00 ID2     | 37852 |
| 1/17/12 9:00 AM                  | 09:00 Evening | 31653 |
|                                  | 09:00 Timely  | 31653 |
| 1/17/12 5:00 PM                  | 17:00 ID1     | 31653 |
| 1/17/12 9:00 PM                  | 21:00 ID2     | 31653 |
| 1/18/12 9:00 AM                  | 09:00 Evening | 25    |
|                                  | 09:00 Timely  | 20    |
| 1/18/12 5:00 PM                  | 17:00 ID1     | 21    |
| 1/18/12 9:00 PM                  | 21:00 ID2     | 21    |
| 1/19/12 9:00 AM                  | 09:00 Evening | 7     |
|                                  | 09:00 Timely  | 30    |
| 1/19/12 5:00 PM                  | 17:00 ID1     | 7     |
| 1/19/12 9:00 PM                  | 21:00 ID2     | 7     |
| 1/20/12 9:00 AM                  | 09:00 Timely  | 30    |
| 1/21/12 9:00 AM                  | 09:00 Evening | 9900  |
|                                  | 09:00 Timely  | 29930 |
| 1/21/12 5:00 PM                  | 17:00 ID1     | 9900  |
| 1/21/12 9:00 PM                  | 21:00 ID2     | 9900  |
| 1/22/12 9:00 AM                  | 09:00 Evening | 9900  |
|                                  | 09:00 Timely  | 29900 |
| 1/23/12 9:00 AM                  | 09:00 Timely  | 29900 |
| 1/24/12 9:00 AM                  | 09:00 Evening | 11    |
| 3/1/12 9:00 AM                   | 09:00 Evening | 12    |
| 3/1/12 5:00 PM                   | 17:00 ID1     | 11    |
| 3/1/12 9:00 PM                   | 21:00 ID2     | 11    |
| 3/2/12 9:00 AM                   | 09:00 Timely  | 21    |
| 3/3/12 9:00 AM                   | 09:00 Timely  | 21    |
| 3/4/12 9:00 AM                   | 09:00 Timely  | 21    |
| 3/4/12 5:00 PM                   | 17:00 ID1     | 12000 |
| 3/4/12 9:00 PM                   | 21:00 ID2     | 12000 |
| 3/5/12 9:00 AM                   | 09:00 Evening | 25000 |
|                                  | 09:00 Timely  | 25021 |
| 3/5/12 5:00 PM                   | 17:00 ID1     | 15000 |
| 3/5/12 9:00 PM                   | 21:00 ID2     | 15000 |
| 3/6/12 9:00 AM                   | 09:00 Evening | 20000 |
|                                  | 09:00 Timely  | 20021 |
| 3/7/12 9:00 AM                   | 09:00 Timely  | 21    |
| 3/8/12 9:00 AM                   | 09:00 Evening | 6     |
|                                  | 09:00 Timely  | 27    |
| 3/8/12 5:00 PM                   | 17:00 ID1     | 6     |
| 3/8/12 9:00 PM                   | 21:00 ID2     | 6     |
| 3/9/12 9:00 AM                   | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 22    |
| 3/9/12 5:00 PM                   | 17:00 ID1     | 1     |
| 3/9/12 9:00 PM                   | 21:00 ID2     | 1     |
| 3/10/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/11/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/12/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/13/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/14/12 9:00 AM                  | 09:00 Timely  | 21    |

| Empress to CDA IT by NAESB Cycle |               |        |
|----------------------------------|---------------|--------|
| Sum of Nomination Quantity       |               |        |
| Cycle Start Time                 | Cycle Name    | Total  |
| 1/18/11 5:00 PM                  | 17:00 ID1     | 830    |
| 1/18/11 9:00 PM                  | 21:00 ID2     | 830    |
| 1/19/11 9:00 AM                  | 09:00 Evening | 4979   |
|                                  | 09:00 Timely  | 2419   |
| 1/19/11 5:00 PM                  | 17:00 ID1     | 3734   |
| 1/19/11 9:00 PM                  | 21:00 ID2     | 3734   |
| 1/20/11 9:00 AM                  | 09:00 Evening | 2581   |
| 1/20/11 5:00 PM                  | 17:00 ID1     | 2581   |
| 1/20/11 9:00 PM                  | 21:00 ID2     | 2581   |
| 1/21/11 9:00 AM                  | 09:00 Evening | 220    |
| 1/21/11 5:00 PM                  | 17:00 ID1     | 204    |
| 1/21/11 9:00 PM                  | 21:00 ID2     | 204    |
| 1/22/11 9:00 AM                  | 09:00 Evening | 7698   |
|                                  | 09:00 Timely  | 12204  |
| 1/22/11 5:00 PM                  | 17:00 ID1     | 7698   |
| 1/22/11 9:00 PM                  | 21:00 ID2     | 1031   |
| 1/23/11 9:00 AM                  | 09:00 Evening | 50823  |
|                                  | 09:00 Timely  | 41112  |
| 1/23/11 5:00 PM                  | 17:00 ID1     | 50823  |
| 1/23/11 9:00 PM                  | 21:00 ID2     | 50531  |
| 1/24/11 9:00 AM                  | 09:00 Evening | 531    |
|                                  | 09:00 Timely  | 114956 |
| 1/24/11 5:00 PM                  | 17:00 ID1     | 833    |
| 1/25/11 9:00 AM                  | 09:00 Evening | 531    |
| 1/26/11 9:00 AM                  | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 1      |
| 1/26/11 5:00 PM                  | 17:00 ID1     | 1      |
| 1/26/11 9:00 PM                  | 21:00 ID2     | 1      |
| 1/27/11 9:00 AM                  | 09:00 Evening | 2      |
|                                  | 09:00 Timely  | 2      |
| 1/27/11 5:00 PM                  | 17:00 ID1     | 2      |
| 1/27/11 9:00 PM                  | 21:00 ID2     | 2      |
| 1/29/11 9:00 AM                  | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 13001  |
| 1/29/11 5:00 PM                  | 17:00 ID1     | 1      |
| 1/29/11 9:00 PM                  | 21:00 ID2     | 1      |
| 1/30/11 9:00 AM                  | 09:00 Evening | 35307  |
|                                  | 09:00 Timely  | 78445  |
| 1/30/11 5:00 PM                  | 17:00 ID1     | 9221   |
| 1/30/11 9:00 PM                  | 21:00 ID2     | 3999   |
| 1/31/11 9:00 AM                  | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 151445 |
| 1/31/11 5:00 PM                  | 17:00 ID1     | 1      |
| 1/31/11 9:00 PM                  | 21:00 ID2     | 1      |
| 2/1/11 9:00 AM                   | 09:00 Evening | 6896   |
|                                  | 09:00 Timely  | 22500  |
| 2/2/11 9:00 AM                   | 09:00 Evening | 946    |
|                                  | 09:00 Timely  | 2500   |
| 2/4/11 9:00 AM                   | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 2501   |
| 2/4/11 5:00 PM                   | 17:00 ID1     | 1      |
| 2/4/11 9:00 PM                   | 21:00 ID2     | 1      |
| 2/5/11 9:00 AM                   | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 2501   |
| 2/5/11 5:00 PM                   | 17:00 ID1     | 1      |
| 2/5/11 9:00 PM                   | 21:00 ID2     | 1      |
| 2/6/11 9:00 AM                   | 09:00 Evening | 1      |
|                                  | 09:00 Timely  | 1      |
| 2/6/11 5:00 PM                   | 17:00 ID1     | 1      |
| 2/6/11 9:00 PM                   | 21:00 ID2     | 1      |
| 2/7/11 9:00 AM                   | 09:00 Evening | 260    |
|                                  | 09:00 Timely  | 1      |
| 2/7/11 5:00 PM                   | 17:00 ID1     | 1      |
| 2/7/11 9:00 PM                   | 21:00 ID2     | 1      |
| 2/8/11 9:00 AM                   | 09:00 Evening | 10000  |

| Empress to EDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 3/15/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/16/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/17/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/18/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/19/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/20/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/22/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/23/12 9:00 AM                  | 09:00 Timely  | 21    |
| 3/27/12 9:00 AM                  | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 3/27/12 5:00 PM                  | 17:00 ID1     | 1     |
| 3/27/12 9:00 PM                  | 21:00 ID2     | 1     |
| 3/28/12 9:00 AM                  | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 3/28/12 5:00 PM                  | 17:00 ID1     | 1     |
| 3/28/12 9:00 PM                  | 21:00 ID2     | 1     |
| 3/29/12 9:00 AM                  | 09:00 Evening | 1     |
|                                  | 09:00 Timely  | 1     |
| 3/29/12 5:00 PM                  | 17:00 ID1     | 1     |
| 3/29/12 9:00 PM                  | 21:00 ID2     | 1     |

| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
|                                  | 09:00 Timely  | 10000 |
| 2/8/11 5:00 PM                   | 17:00 ID1     | 8413  |
| 2/8/11 9:00 PM                   | 21:00 ID2     | 8413  |
| 2/9/11 9:00 AM                   | 09:00 Evening | 52199 |
|                                  | 09:00 Timely  | 86500 |
| 2/9/11 5:00 PM                   | 17:00 ID1     | 39622 |
| 2/9/11 9:00 PM                   | 21:00 ID2     | 23211 |
| 2/10/11 9:00 AM                  | 09:00 Evening | 30634 |
|                                  | 09:00 Timely  | 92500 |
| 2/10/11 5:00 PM                  | 17:00 ID1     | 22615 |
| 2/10/11 9:00 PM                  | 21:00 ID2     | 22614 |
| 2/11/11 9:00 AM                  | 09:00 Evening | 3724  |
|                                  | 09:00 Timely  | 1000  |
| 2/19/11 9:00 AM                  | 09:00 Evening | 995   |
|                                  | 09:00 Timely  | 45275 |
| 2/19/11 5:00 PM                  | 17:00 ID1     | 995   |
| 2/19/11 9:00 PM                  | 21:00 ID2     | 995   |
| 2/20/11 9:00 AM                  | 09:00 Evening | 4387  |
|                                  | 09:00 Timely  | 45275 |
| 2/21/11 9:00 AM                  | 09:00 Evening | 40000 |
|                                  | 09:00 Timely  | 45275 |
| 2/21/11 5:00 PM                  | 17:00 ID1     | 40000 |
| 2/22/11 9:00 AM                  | 09:00 Evening | 40000 |
|                                  | 09:00 Timely  | 45275 |
| 2/24/11 9:00 AM                  | 09:00 Timely  | 100   |
| 2/26/11 5:00 PM                  | 17:00 ID1     | 20000 |
| 2/28/11 9:00 AM                  | 09:00 Timely  | 20000 |
| 3/3/11 9:00 AM                   | 09:00 Evening | 81    |
|                                  | 09:00 Timely  | 90192 |
| 3/3/11 5:00 PM                   | 17:00 ID1     | 81    |
| 3/3/11 9:00 PM                   | 21:00 ID2     | 81    |
| 3/4/11 9:00 AM                   | 09:00 Timely  | 20000 |
| 3/5/11 9:00 AM                   | 09:00 Timely  | 20000 |
| 3/6/11 9:00 AM                   | 09:00 Timely  | 20000 |
| 3/7/11 9:00 AM                   | 09:00 Timely  | 20000 |
| 3/8/11 9:00 AM                   | 09:00 Timely  | 23000 |
| 3/15/11 9:00 AM                  | 09:00 Timely  | 55000 |
| 3/16/11 9:00 AM                  | 09:00 Timely  | 65000 |
| 3/17/11 9:00 AM                  | 09:00 Timely  | 20000 |
| 3/22/11 9:00 AM                  | 09:00 Evening | 5     |
|                                  | 09:00 Timely  | 5     |
| 3/22/11 5:00 PM                  | 17:00 ID1     | 5     |
| 3/22/11 9:00 PM                  | 21:00 ID2     | 5     |
| 3/23/11 9:00 AM                  | 09:00 Evening | 31657 |
|                                  | 09:00 Timely  | 5     |
| 3/23/11 5:00 PM                  | 17:00 ID1     | 5     |
| 3/23/11 9:00 PM                  | 21:00 ID2     | 5     |
| 3/24/11 9:00 AM                  | 09:00 Evening | 3052  |
|                                  | 09:00 Timely  | 50000 |
| 3/28/11 9:00 AM                  | 09:00 Evening | 2551  |
| 3/30/11 9:00 AM                  | 09:00 Timely  | 27642 |
| 3/31/11 9:00 AM                  | 09:00 Timely  | 25532 |
| 12/28/11 9:00 AM                 | 09:00 Evening | 2102  |
|                                  | 09:00 Timely  | 11028 |
| 12/28/11 5:00 PM                 | 17:00 ID1     | 16798 |
| 12/28/11 9:00 PM                 | 21:00 ID2     | 16798 |
| 12/29/11 9:00 AM                 | 09:00 Evening | 2222  |
|                                  | 09:00 Timely  | 3619  |
| 12/29/11 5:00 PM                 | 17:00 ID1     | 2222  |
| 12/29/11 9:00 PM                 | 21:00 ID2     | 2222  |
| 12/30/11 9:00 AM                 | 09:00 Timely  | 3619  |
| 12/31/11 9:00 AM                 | 09:00 Timely  | 3619  |
| 1/1/12 9:00 AM                   | 09:00 Evening | 13024 |
|                                  | 09:00 Timely  | 15538 |
| 1/1/12 5:00 PM                   | 17:00 ID1     | 7817  |

| Empress to EDA IT by NAESB Cycle |            |       |
|----------------------------------|------------|-------|
| Sum of Nomination Quantity       |            |       |
| Cycle Start Time                 | Cycle Name | Total |



| Empress to CDA IT by NAESB Cycle |               |       |
|----------------------------------|---------------|-------|
| Sum of Nomination Quantity       |               |       |
| Cycle Start Time                 | Cycle Name    | Total |
| 1/1/12 9:00 PM                   | 21:00 ID2     | 7817  |
| 1/2/12 9:00 AM                   | 09:00 Evening | 12875 |
|                                  | 09:00 Timely  | 31020 |
| 1/2/12 5:00 PM                   | 17:00 ID1     | 3524  |
| 1/2/12 9:00 PM                   | 21:00 ID2     | 1175  |
| 1/3/12 9:00 AM                   | 09:00 Evening | 11342 |
|                                  | 09:00 Timely  | 31020 |
| 1/3/12 5:00 PM                   | 17:00 ID1     | 11342 |
| 1/3/12 9:00 PM                   | 21:00 ID2     | 11342 |
| 1/4/12 9:00 AM                   | 09:00 Timely  | 3414  |
| 1/14/12 9:00 AM                  | 09:00 Evening | 24795 |
|                                  | 09:00 Timely  | 31308 |
| 1/14/12 5:00 PM                  | 17:00 ID1     | 15016 |
| 1/14/12 9:00 PM                  | 21:00 ID2     | 15016 |
| 1/15/12 9:00 AM                  | 09:00 Evening | 72054 |
|                                  | 09:00 Timely  | 63553 |
| 1/15/12 5:00 PM                  | 17:00 ID1     | 55527 |
| 1/15/12 9:00 PM                  | 21:00 ID2     | 55527 |
| 1/16/12 9:00 AM                  | 09:00 Evening | 13914 |
|                                  | 09:00 Timely  | 83383 |
| 1/16/12 5:00 PM                  | 17:00 ID1     | 18584 |
| 1/16/12 9:00 PM                  | 21:00 ID2     | 18584 |
| 1/17/12 9:00 AM                  | 09:00 Evening | 34331 |
|                                  | 09:00 Timely  | 82699 |
| 1/17/12 5:00 PM                  | 17:00 ID1     | 34331 |
| 1/17/12 9:00 PM                  | 21:00 ID2     | 34331 |
| 1/18/12 9:00 AM                  | 09:00 Evening | 61152 |
|                                  | 09:00 Timely  | 45313 |
| 1/18/12 5:00 PM                  | 17:00 ID1     | 61952 |
| 1/18/12 9:00 PM                  | 21:00 ID2     | 61152 |
| 1/19/12 9:00 AM                  | 09:00 Evening | 27243 |
|                                  | 09:00 Timely  | 38118 |
| 1/19/12 5:00 PM                  | 17:00 ID1     | 27243 |
| 1/19/12 9:00 PM                  | 21:00 ID2     | 27243 |
| 1/20/12 9:00 AM                  | 09:00 Timely  | 11627 |
| 1/22/12 9:00 PM                  | 21:00 ID2     | 131   |

| Empress to EDA IT by NAESB Cycle |            |       |
|----------------------------------|------------|-------|
| Sum of Nomination Quantity       |            |       |
| Cycle Start Time                 | Cycle Name | Total |

**Reference:** TransCanada Written Evidence, Section 3.2, page 8, lines 14-20

**Preamble:** TransCanada states that it can transfer existing equipment from another location to Parkway, thus using existing infrastructure. TransCanada states that could install the compressor adjacent to the existing TransCanada lines.

**Request:**

- (a) Please confirm what equipment TransCanada refers to that could be moved from one location to a location near Parkway.
- (b) Specifically which lands would TransCanada propose to locate the compressor on at or near Parkway? Has TransCanada inquired into the availability of that land?
- (c) How much property does TransCanada currently own at or near Parkway?
- (d) Please describe the current facilities TransCanada owns and operates at Parkway.
- (e) Where would TransCanada propose to locate an LCU compression unit at Parkway to utilize existing infrastructure? What would be the separation distance from Union's existing compressor plants?
- (f) How does TransCanada estimate that the capital cost savings for the TransCanada proposal is 50%?
- (g) Please list all compressors that TransCanada considers to be excess to current operation requirements. For each compressor please provide:
  - a. Date Manufactured and Installed.
  - b. Current Location.
  - c. Hours of Operation per Generator (since installation).
  - d. Dates of any Major Overhauls.
  - e. Horsepower Rating.
  - f. Design Flows, including minimum suction and maximum discharge capabilities.
  - g. Whether these units are used or useful and could be sold to another party.

- (h) TransCanada states a cost of \$70 million for relocating compressor units to Maple as part of their expansion plans. Please provide the following:
  - a. Detailed breakdown of the \$70 million cost.
  - b. Amount of horsepower per unit being relocated.
  - c. The sites from which the compressor units are being relocated.
  - d. The cost of the changes required at each of those sites.
  - e. Impact to the capacity of the Mainline and NOL system after the compressors are relocated.
  - f. Please confirm that the Maple expansion has land readily available and piping infrastructure for expansion within its property.
- (i) How are the costs for spare compressors on the Mainline system allocated? Are Ontario consumers the only consumers to pay for spare compressors on the Mainline system?
- (j) Please provide any internal or external presentations, analysis or communications in relation to TransCanada's assertion that it could transfer existing equipment to Parkway.
- (k) Would TCPL sell a used compressor to Union.

**Response:**

- (a) The equipment that TransCanada would propose to relocate would be dependent on the requirements at the new location such as the total power required and the operational flexibility benefits of two or more units versus one unit. Once that is determined TransCanada will assess the existing fleet of compressors and pick the unit(s) which could be relocated based on the cost to relocate, the impact to capacity as a result of the relocation, the impact to operating costs as a result of the relocation and the impact to service reliability as a result of the relocation.
- (b) TransCanada has not done a detailed evaluation of specific projects but has provided alternatives to Union's proposal based on estimated costs. Through a collaborative process, TransCanada and Union would be able to determine an appropriate site for the compression.
- (c) The TransCanada property at Parkway is approximately 4731 square meters or 1.17 acres.
- (d) At Parkway TransCanada has a delivery meter station that delivers gas to Enbridge, a delivery meter station that delivers gas to Union, a receipt meter

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station that receives gas from Union and piping and valves associated with those facilities.

- (e) TransCanada accepts Union's assessment that there is insufficient room at the existing Parkway facility for the LCU compression. The distance from Union's existing compression is unknown at this time but can be assessed through a collaborative process between Union and TransCanada.
- (f) Based on rule of thumb costs there is a possibility that TransCanada could construct the LCU compression for \$90 million which is 50% of the \$181 million cost which appears to be the cost of Union's LCU proposal. Please refer to the response to OEB #1 a) for an explanation of the derivation of the \$181 million cost.
- (g) TransCanada has received approval to deactivate four units on the Canadian Mainline. The units are 21C, 55B, 60A and 92B.

|                                                    | Unit 21C                                                                                                                          | Unit 55B               | Unit 60A               | Unit 92B              |
|----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------------|-----------------------|
| Date installed                                     | 1969                                                                                                                              | 1992                   | 1964                   | 1973                  |
| Current location                                   | Station 21                                                                                                                        | Station 55             | Station 60             | Station 92            |
| Hours of operation since installation <sup>1</sup> | 185,984                                                                                                                           | 64,502                 | 217,281                | 196,912               |
| Date of last major overhaul                        | Sept. 2002                                                                                                                        | 2005                   | April 1998             | April, 1998           |
| Power Rating                                       | 10 MW                                                                                                                             | 14 MW                  | 15 MW                  | 15 MW                 |
| Maximum Flow <sup>2</sup>                          | 10.7 m <sup>3</sup> /s                                                                                                            | 11.5 m <sup>3</sup> /s | 11.9 m <sup>3</sup> /s | 9.7 m <sup>3</sup> /s |
| MAOP <sup>3</sup>                                  | 6205                                                                                                                              | 7100                   | 7030                   | 7030                  |
| Used and useful                                    | These units are in a deactivated state within the terms of the Onshore Pipeline Regulations. They could be sold to another party. |                        |                        |                       |

Note 1: The hours provided are hours of operation at the berth, not hours of operation for the engine that was in the berth at the time of the deactivation as engines are frequently moved from location to location.

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Note 2: TransCanada is providing the maximum flow through the compressor aero assembly at the time of deactivation.

Note 3: TransCanada is not aware of any minimum pressure limitations and is providing only the MAOP.

- (h) A. The costs consist of \$62 million for the installation at Station 130 and \$4 million each for the decommissioning of the units at the existing sites.
- B. Two 11 MW units are being relocated for a total of 22 MW.
- C. The compressors are being relocated from Station 52 and Station 84.
- D. The decommissioning costs are estimated as \$4 million per site.
- E. There is approximately 30 TJ/d reduction in Peak Winter Design capability across the NOL as a result of the relocation of the two units to Maple.
- F. The installation at Station 130 is occurring on existing TransCanada land at the site. There will be additional piping required within the existing site.
- (i) There are no “spare compressors on the Mainline system.”

**SUPPLEMENTAL INFORMATION**

The costs associated with the four compressor units to be deactivated (three units in Ontario and one unit in Saskatchewan) are part of system revenue requirements and are not allocated to any specific class of service or geographical area. Therefore, Mainline shippers that provide service to Ontario consumers pay only a portion of the costs of those compressor units.

- (j) Relocation of existing compressors is a standard alternative that TransCanada routinely considers for capacity additions. TransCanada has recently relocated or is in the process of relocating four compressors to locations where they have higher utilization rates. There has been no analysis specific to relocating any compressors to Parkway, but this work would be an easily accomplished component of a collaborative process between Union and TransCanada.
- (k) Yes.