August 21, 2013

Dear OPRA Market Data Recipients:

The OPRA participants have updated their traffic projections for the 4th Quarter of 2013. These projections are based on a 1-second interval. These figures are from the 12 active Exchanges.

OPRA will increase the potential traffic rate from SIAC at the opening on the indicated date. The bandwidth required to receive data via your SFTI connection is reflected in Gigabits per second.

Two redundant streams of data are available from SIAC. These projections are for one stream.

<table>
<thead>
<tr>
<th>Date</th>
<th>Required Capacity Messages Per Second (MPS)</th>
<th>Bandwidth Gigabits Per Second (Gbps)</th>
<th>Bandwidth Plus 10% for Retransmissions</th>
<th>Total Messages Per Day</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/8/2013</td>
<td>15,017,600</td>
<td>3.60</td>
<td>3.96</td>
<td>24,608,050,000</td>
</tr>
</tbody>
</table>

October 2013 Output Rate
The maximum output rate on an individual Multicast Line for OPRA will be 1 Million MPS.

October 2013 Peak Packets
The peak packets for OPRA will be 1 Million packets per second.

Latency
The average latency for OPRA is 0.8 milliseconds. Message latency is measured beginning with the time-stamp taken as an inbound Participant message arrives at the network entrance to the OPRA environment, through processing by the system into a consolidated message for Data Recipients, to the time-stamp taken as the outbound message arrives at the network exit from the environment. These time-stamps are taken and correlated by a process external to the data processing applications. If the external process cannot correlate an inbound message to its corresponding outbound message or measures negative latency for a message, the message is excluded from broader latency calculations such as average message latency.