



January 15, 2016

TO: OPRA Data Recipients

RE: OPRA Issue of January 14, 2016

Dear OPRA Data Recipients,

As previously announced OPRA is upgrading to new hardware and software, which includes the migration of multicast lines, in several phases.

Beginning at approximately 8:30am, OPRA received several invalid administrative message types, which erroneously resulted in gaps in output sequence numbers on the multicast line supporting administrative messages. Although OPRA discarded the messages, it continued to advance the sequence number, creating an un-fillable gap. As such, the determination was made to fall back the multicast lines to their backups, which were on the previous hardware and software, prior to market open. Later, it was determined that there was a procedural error in this process, which did not allow data to process in a normal manner.

At 9:30am market open, queuing was experienced on multiple backup multicast lines, which may have impacted Subscribers. To alleviate the issue, a recovery procedure was executed, the backup lines were stopped, queuing discontinued, and normal processing resumed at approximately 9:43am.

Subsequently, a small number of gaps occurred intermittently and were successfully filled, through the remainder of the day. At this time, it is not known whether this gapping was related.

For start-of-day Friday, January 15th, OPRA reverted to the previous version (start-of-day Wednesday, January 13th) of hardware and software.

Sincerely,

OPRA, LLC