

DCA15MA019

Attachment #6 to Group Chairman's Electronic Devices and Flight
Data Factual Report

Scaled PSC Data Report

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Prepared for the National Transportation Safety Board

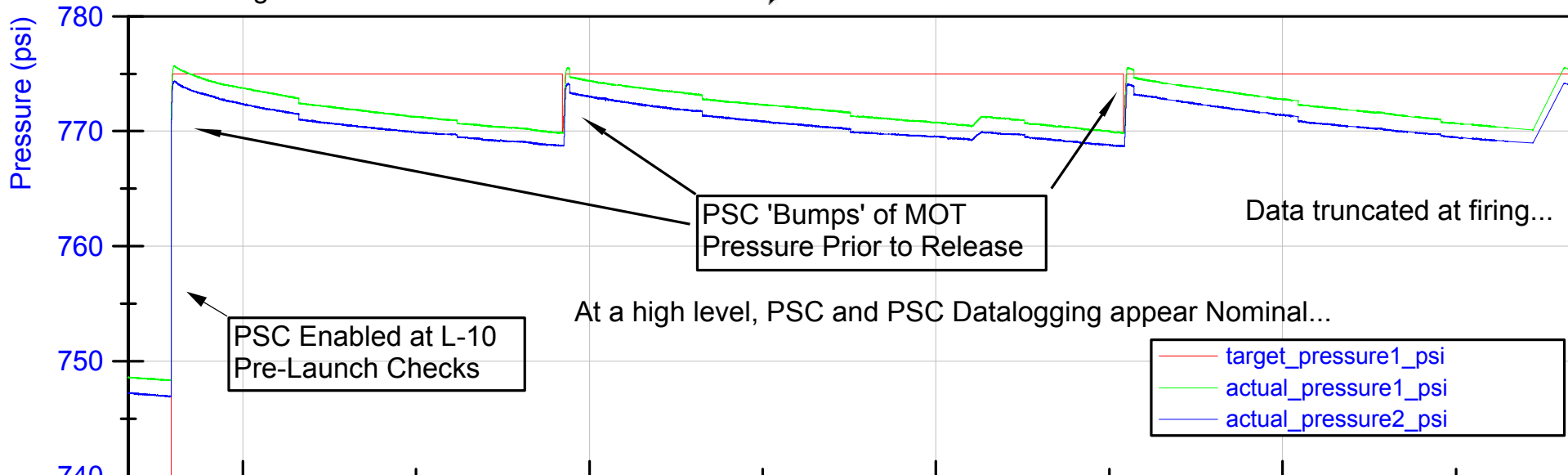


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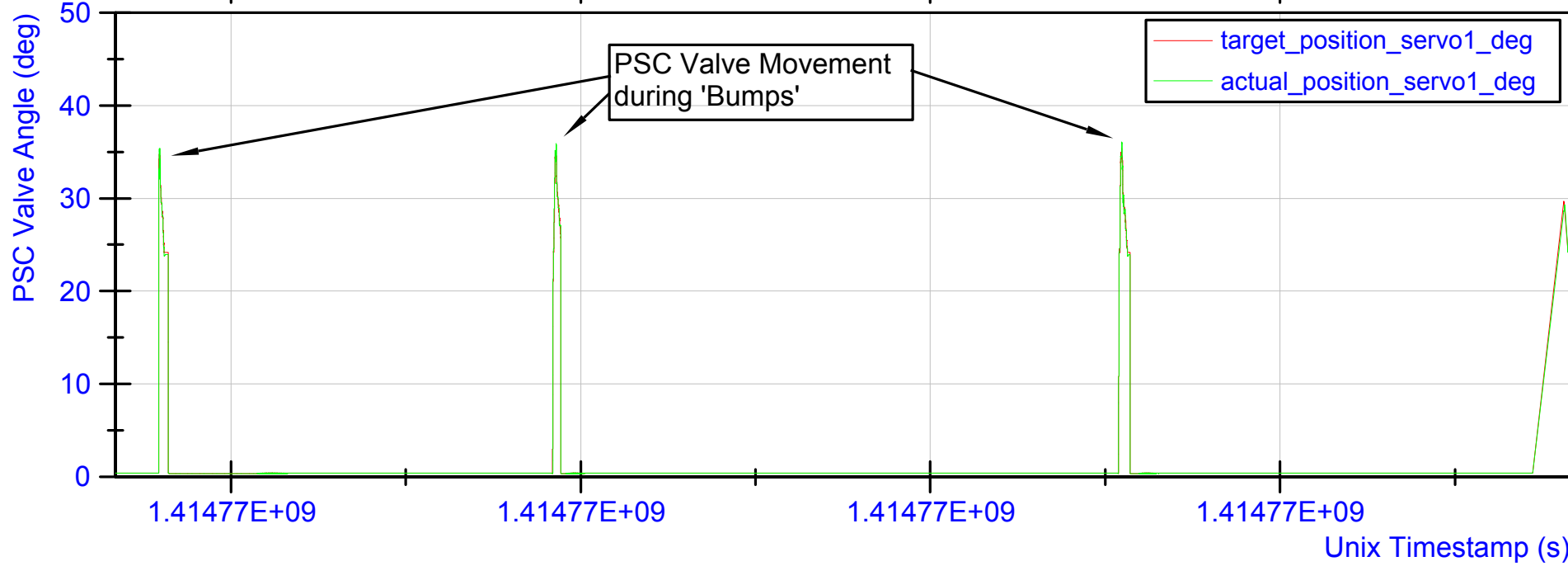
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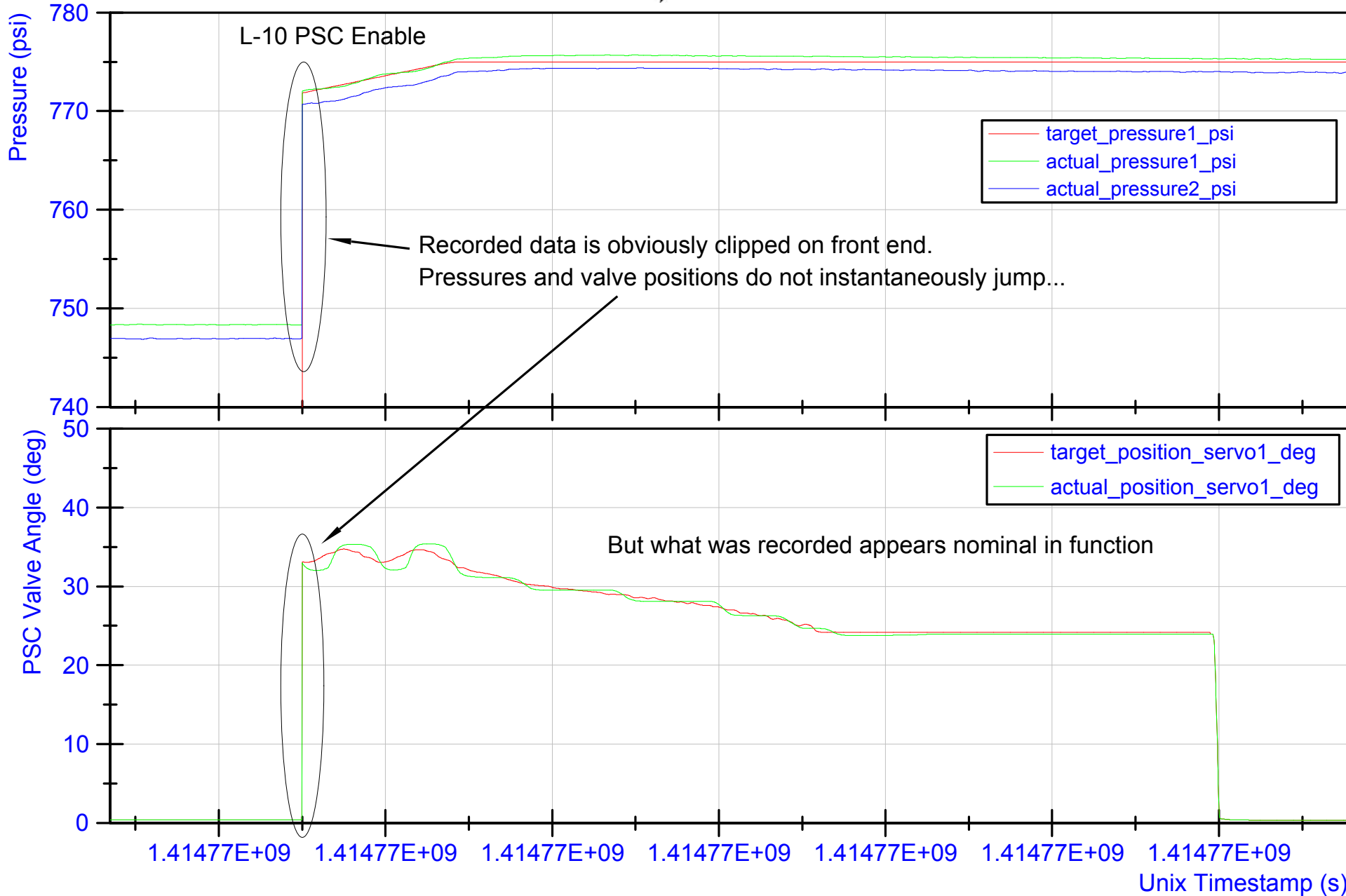
PSC High Level



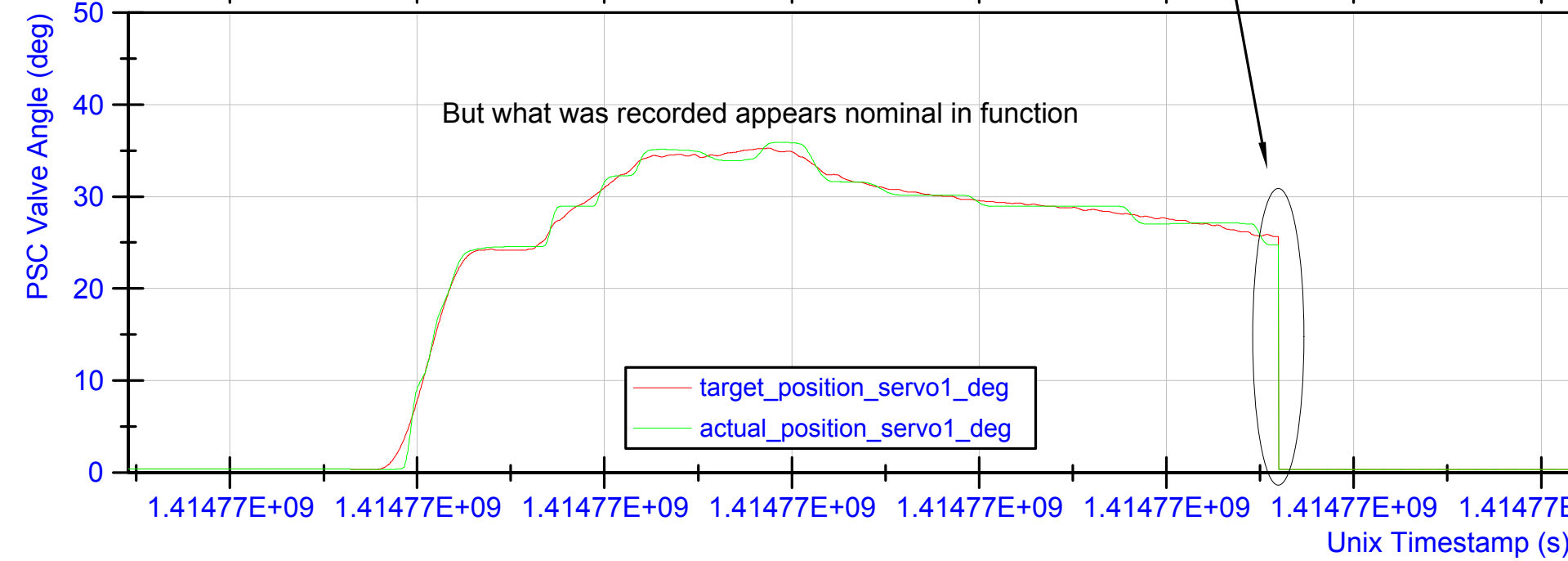
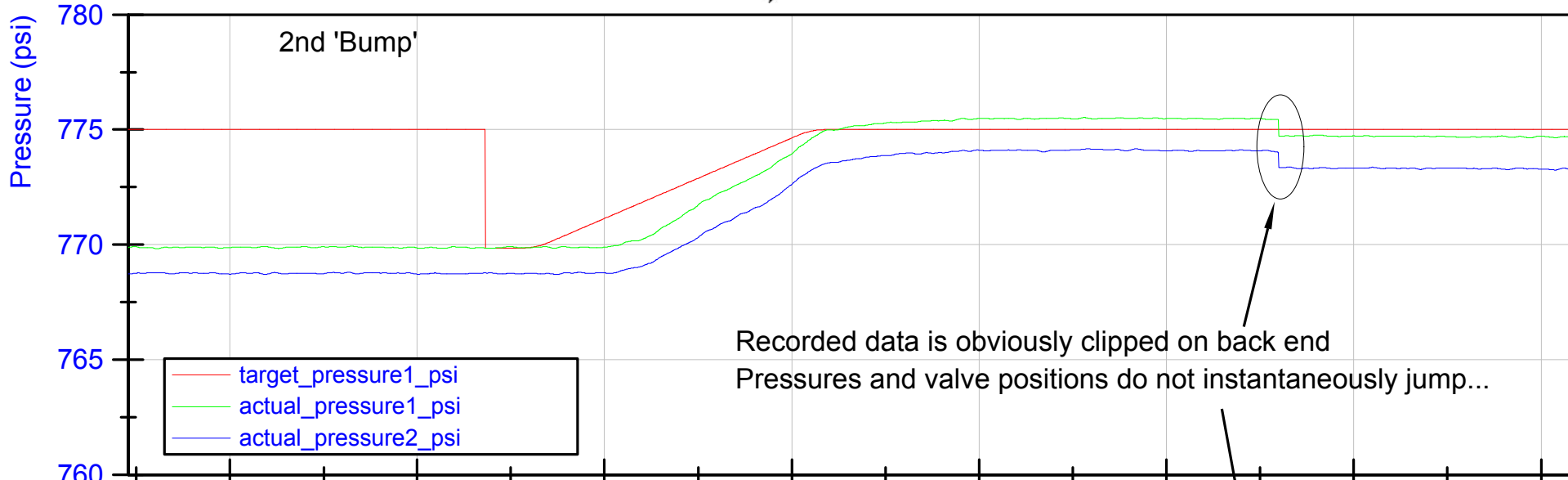
At a high level, PSC and PSC Datalogging appear Nominal...



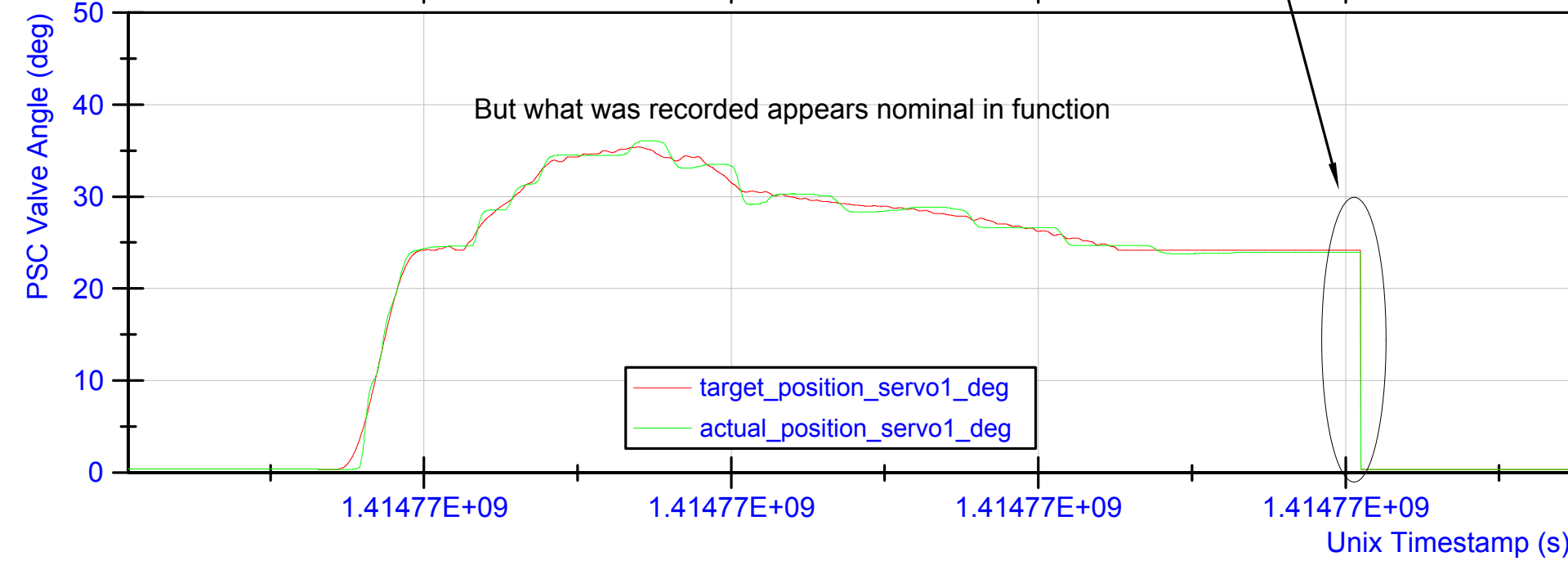
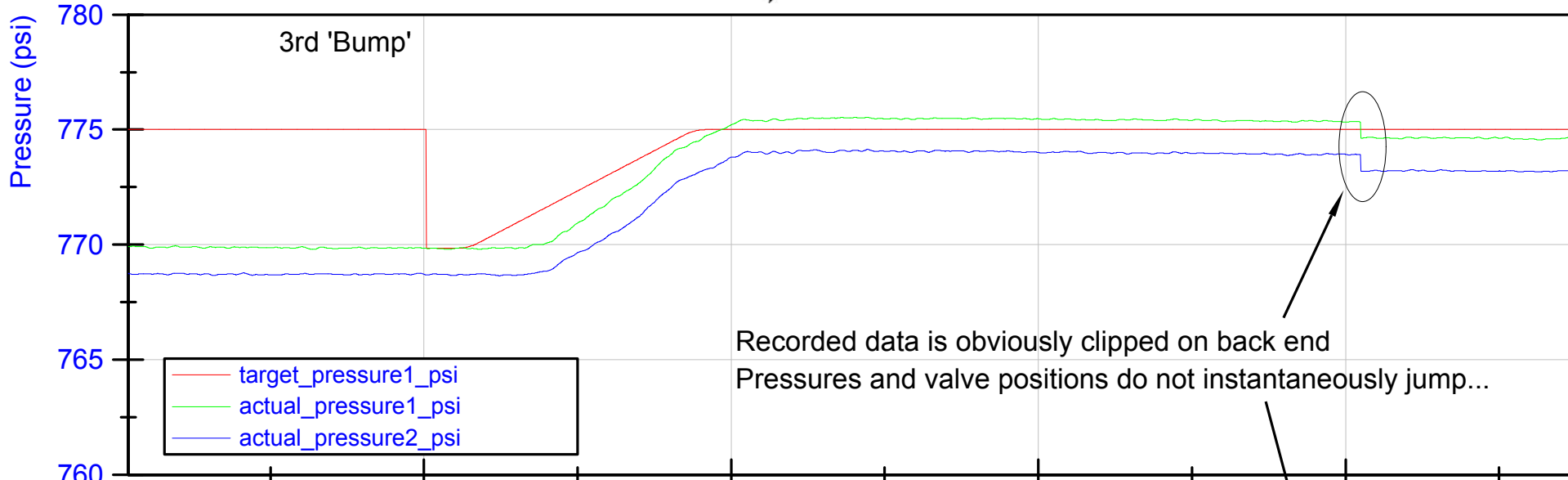
PSC Low-Level



PSC Low-Level



PSC Low-Level





PSC, Datalogger Performance Observations

- By all indications (PSC recorded and recovered data and RMC indications of MOT pressure), the PSC functioned nominally and within expected operating parameters
- The PSC Datalogger, however, lost communication with the PSC data stream multiple times during the flight (psc_recorder_msg.txt)
- The PSC Datalogger was inhibited from listening to and recording the PSC data stream due to having to manage the SQL-type database in which it was storing data. Log files indicate that due to the prescribed database becoming full, the PSC Datalogging manager had to delete rows within the database in order to continue recording, thereby interfering with the data collection process (psc_manager_msg.txt)
- The PSC Datalogger had no telemetered indication as to its status of function, giving the ground station no insight as to its improper function.
- In our attempt to rebuild and access the database containing the PSC data, the rebuilding process indicated a significant number of database table rows having been deleted (~10,000). Additional PSC data may still be accessed from within database file. Forensic reconstruction will be required.
- Recommend the PSC be rolled into the RMC going forward (in work).