**Overall Summary:**

* Many redlines (~88; ~100 after reruns) were observed during the whole Dry Run event.
* Some DRs were generated (for script updates, etc. but no DRs for code changes).

**Concerns Carried Over From SWIT (Not Completely Answered in Reference File):**

**TC01, 7.1.1.1.5**

* Regarding the verification of NPE\_TSW\_SRS-2736

The NPE TSW shall perform a state-of-health test to assure that the entire system is ready for test by verifying communication interfaces and local disk storage space.

It is not clear how the above requirement gets verified with checking the “LBCRHeartbeat” message in a GUI window. There are probably many more state-of-health checks that are needed to assure that the entire system is ready for test.

* Regarding the verification of NPE\_TSW\_SRS-1341:

The NPE TSW shall record all current revision information for all test scripts, TSW SI software current revision information, MDU flight software current revision information, with all test results.

It is not clear where the NPE TSW records all revision information for all test scripts, all TSW SI software current revision information, along with all test results.

There is a report (ScriptResults\_\_\_\_.xls) that contains the MDU flight software current revision information only. However, it is not clear where the NPE TSW records the other information per NPE\_TSW\_SRS-1341:

* + all current revision information for all test scripts
	+ all TSW SI software current revision information
	+ all test results (including status such as whether test case or subcase completed, passed, failed, was aborted, etc.)

**TC03, 7.1.3.6.5 Validate Nav Message Processing – No Issue**

SID 134 (Utility\_Validate\_Nav\_Message\_Processing.xts)

**TC03, 7.1.3.6.4 SV Attitude message functions – No Issue**

SID 165 (TSW\_SIQT\_Test\_SV\_Attitude\_Msg.xts)

**TC03, 7.1.3.6.3 1553\_Inject\_All\_Telemetry – No Issue**

SID 149 (TSW\_SIQT\_1553\_Inject\_All\_Telemetry.xts)

**TC03, 7.1.3.6.2 1553\_Black Bus – 4 Issues**

SID 158 (Utility\_MDU\_Power\_OnOff.xts)

* It appears that a shortcut was taken and Utility\_MDU\_Power\_OnOff.xts was executed instead of Utility\_MDU\_ReInitialization.xts. For formal SIQT, will the official script per the test procedure (Utility\_MDU\_ReInitialization.xts) be executed? The XTSHistory shows the following warning:

 Operator Advisories

This script is not intended as a replacement for the script MDU\_Configuration, but rather as a faster stand-in when expediency of execution is valued over the thoroughness of the official script Utility\_MDU\_ReInitialization.xts.

SID 159 (Utility\_MDU\_Power\_OnOff.xts)

SID 160 (Utility\_MDU\_ReInitialization.xts)

SID 161 (TSW\_SIQT\_Test\_1553\_Sides.xts)

Note: Did not see a start and end time in ScriptResults file.

SID 162 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon – AnalyzeFunctions.RecordAnalyzePoint().

The INSERT statement conflicted with the FOREIGN KEY constraint.

* ITT\_Debugging\_MITE: ERROR STE.SteBase – SteBase – Run XTS

System Invalid Operation Exception: Queue Empty. . .

SID 163 (TSW\_SIQT\_Test\_1553\_Sides.xts)

Note: Did not see a start and end time in ScriptResults file.

SID 164 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon . . .

The INSERT statement conflicted with the FOREIGN KEY constraint. . . The conflict occurred in database “GPSIII”, table “dbo.Analyze”

**TC03, 7.1.3.6.1 Bus BDP cmd Transaction – 1 Issue**

SID 147 (MDU\_NDS\_BDP\_Commands.xts)

* ITT\_Debugging\_MAR: Error DataStorage.DBCommon . . .

The INSERT statement conflicted with the FOREIGN KEY . . .

**TC03, 7.1.3.5.1 HPE Timing Signal – 2 Issues**

SID 147 (TSW\_SIQT\_MDU\_HPE\_Signals.xts)

* XTSHistory: CAL DATA IS NOT FACTORED IN THE DATABASE AT THIS TIME
* ITT\_Debugging\_MITE: CAL DATA IS NOT FACTORED IN THE DATABASE AT THIS TIME

**TC03, 7.1.3.4.3 MDU TestBus – Aborted**

SID 141 (TSW\_SIQT\_MDU\_Test\_Bus.xts) – Aborted

* ITT\_Debugging\_MITE: Aborting all tests is true – Exiting
* No ITT\_Debugging\_Mar log

**TC03, 7.1.3.4.2 TLM verification through the EGSE Ethernet Interface – Multiple Issues**

SID 128 (TSW\_SIQT\_TlmAnalog.xts)

* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host
* ITT\_Debugging\_MITE: Aborting all tests is true- Exiting

SID 129 (TSW\_SIQT\_TlmDiscrete.xts)

* ScriptResults shows FAIL for MDUA\_ON
* XTSHistory: Aborting all scripts due to analyze failure. . .Aborting all scripts due to an Abort All request
* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host
* ITT\_Debugging\_MITE: Aborting all scripts due to an Analyze Failure

SID 130 (TSW\_SIQT\_TlmSerial.xts)

* ScriptResults shows FAIL for Stored Command Status
* XTSHistory: Aborting all scripts due to analyze failure. . .Aborting all scripts due to an Abort All request
* ITT\_Debugging\_MAR: Unable to write data to the transport connection; an existing connection was forcible closed by remote host
* ITT\_Debugging\_MITE: Aborting all scripts due to an Analyze Failure

SID 131 (TSW\_SIQT\_TlmAnalog.xts)

* ITT\_Debugging\_MITE: No configuration was specified in run test script request. . .using default configuration

SID 132 (TSW\_SIQT\_TlmDiscrete.xts)

SID 133 (TSW\_SIQT\_TlmSerial.xts)

* ITT\_Debugging\_MAR: Error – The INSERT statement conflicted with the FOREIGN key constraint. . . The conflict occurred in database “GPSIII”, table “dbo.Analyze”. . .The statement has been terminated

**TC03, 7.1.3.4.1 Telemetry – 1 Issue**

SID 124 (Utility\_MDU\_Power\_OnOff.xts for Power Off)

SID 125 (Utility\_MDU\_Power\_OnOff.xts for Power On)

SID 126 (Utility\_MDU\_ReInitialization.xts)

* ITT\_Debugging\_MAR: Error Data Storage DB Common – The INSERT statement conflicted with FOREIGN Key constraint. . .The statement has been terminated

SID 127 (TSW\_SIQT\_MDU\_Telemetry.xts)