

Presentation Abstract

Presentation Title	MSL EDL Timeline Correlation and Automation
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Presentation Abstract	<p>The Entry, Descent and Landing (EDL) phase of the Mars Science Laboratory (MSL) is one of the most critical phases of the mission and lasts a total of ~6 minutes. Ground intervention is precluded during this phase because of communications transmission latency and fault protection is largely inhibited. This means that the implementation of EDL is an autonomous function with short response time available and typical FSW checks and balances unavailable. Therefore, it's important the EDL requirements and the EDL timeline are in sync and consistent. This session will discuss the process that was created to validate the EDL requirements with the EDL timeline and how Severity 1 issues were identified and accepted by the developer. This session will also discuss how the manual validation process was partially automated.</p>