

## Presentation Abstract

Presentation Title	Model-Based IV&V for an Operation Procedure
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Presentation Abstract	<p>JAXA is now developing new model-based method to verify the consistency between system design and operation design. The system model is built with specific level of abstraction based on the system specification. The external environmental model is also built to verify the interactional behavior between the system and the environment. Then the operation procedure is verified using the system model as a sequence of commands, and the environmental model would behave according to the input from the system model. The interactional behavior between the system and the environment can be analyzed by investigating the history of command and telemetry through the operation sequences. In this presentation, application methodology of Model-Based Independent Verification and Validation (IV&amp;V) for an operational procedure and its effectiveness of the proposed methodology are shown by using simple control model of the spacecraft.</p>