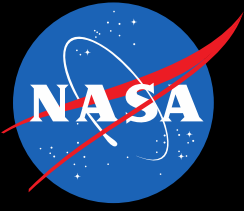




Safety and Mission Assurance

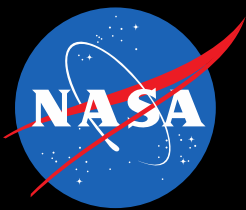
**Ron Perison, Assurance Management Branch
June 20, 2024**



ESEP Mission Assurance Requirements

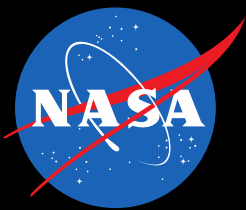


- Proposers shall describe the plan for implementing mission assurance requirements throughout the lifecycle. The requirements are in the Earth System Explorers Program Mission Assurance Requirements (MAR).
- Proposers shall develop a MAR compliance matrix that identifies requirements compliance status.
 - It should include variance and acceptance rationale for processes, procedures, and standards that are proposed as alternatives to those specified by the contract (DID 1-1).
 - It should also include identification of requirements for which relief is requested via the Inherited Item Risk Assessment process (see Section 1.9 "Use of Inherited Products/Items").



The mission assurance matrix should address:

- The overall mission assurance implementation of requirements for hardware, software, parts, materials, safety, reliability, workmanship, contamination control, and related critical ground support equipment
- Implementation of right-sized practices from NPR 8705.4A Risk Classification for NASA Payloads and NASA-STD-8739.10 Electrical, Electronic, and Electromechanical (EEE) Parts Assurance Standard
- Insight-based Class C approach that considers the resources and constraints that go along with Class C
- Use of developer practices and minimizing the need for waivers when proven practices are employed



Available Goddard Space Flight Center Resources



- Available Goddard services to support Projects selected to continue after Phase A include:
 - Systems Safety Engineer
 - Commodities Risk Assessment Engineer
 - Materials and Processes Assurance Engineer
 - Hardware and Software Quality Engineers
 - Parts and Radiation Assurance Engineer
 - Reliability Engineer
 - Supply Chain Assurance Lead