Earth Venture Instrument – 6

Major Changes from EVI-5 to EVI-6

Major Changes from EVI-5 to EVI-6 (1 of 2)

- Only Class D instruments and CubeSats proposals permitted for Earth Venture Instrument – 6 (EVI-6) investigations. Class C instruments are not solicited.

- PI-Managed Mission Cost capped at $37M with an optional Science Enhancement Option (SEO) of $5.3M in Fiscal Year 2024 dollars.

- International Space Station (ISS) is permitted as a possible platform.

- CubeSats up to 12U are permitted when these are packaged for flight on an Evolved Expendable Launch Vehicle (EELV) Secondary Payload Adapter (ESPA) or ESPA Grande. For Earth Venture Instrument – 5 (EVI-5), 6U was the maximum size allowable.

- Added an optional NOAA Operational Enhancement Opportunity (OEO).

- An applications component has been added to the evaluation criteria (A1, A2, and B3).

Major Changes from EVI-5 to EVI-6 (2 of 2)

- Requires PI to lead all science teams related to the selected investigation (both the EVI-6 proposal Science Team and, if applicable, a ROSES Competed Science Team following launch and data delivery).
- NPR 7120.5F instead of NPR 7120.5E is the applicable procedural requirements document.
- Added requirement to follow the NASA Earth Science Division (ESD) Open Source Science Policy.
- Added a section describing and requiring a Project Protection Plan.
- Allows PI's to respond to Potential Major Weaknesses using text, tables and figures with some restrictions.
- Added a section to the PEA on Diversity and Inclusion and added a requirement for a Diversity and Inclusion Plan (two-page maximum) to be evaluated within Factor B-5 (*Probability of investigation team success*).
- Simplified EVI-6 proposal requirements to reduce the workload on proposers. Please refer to following slides.

EVI-6 Simplification

EVI-6 PEA Simplification (1 of 2)

- Overall: Proposal page limits reduced by at least 25 pages (PEA Requirement TBD-37).
- Systems Engineering: Requirement for a description of overall systems engineering approach eliminated; only the description of systems engineering aspects unique to the mission, if any, is required (PEA Requirement TBD-38).
- Schedule: Two schedule foldouts do not count against the page limit instead of three; narrative for the schedule foldout is not required (PEA requirement TBD-39).
- Management Approach Section: (PEA Section 5.1.2, Requirements TBD-40 to 44).
  - Requires only the management organization chart and a brief discussion of decision-making authority and the teaming arrangement and responsibilities.
  - Only investigation unique roles and responsibilities of the key management team are required. Eliminates explanation of traditional roles for key personnel.
  - Eliminates naming Project Manager (PM) and other primary team members.
  - Project risk and potential mitigation strategies in the form of a table only.
  - Requires waivers to NASA Procedural Requirements only to be listed. Eliminates need for a description.

- Cost and Cost Estimating Methodology: (PEA Section 5.1.3).
  - Requires a Basis of Estimate table and a brief description of the methodologies and assumptions used to develop the proposed cost estimate.
  - Only requires a <u>brief</u> discussion of cost risk.
  - Eliminates presenting a rationale for the costing methodology.
  - Eliminates description/evaluation of any proposer's validation methods.
  - Eliminates description of cost management tools.
- Proposal Appendixes: Eliminates two required appendices and simplifies three.
  - Eliminates appendix for Summary of Proposed Program Cooperative Contributions.
  - Eliminates appendix for Discussion of Limiting the Generation of Orbital Debris and End of Mission Spacecraft Disposal Requirements. However, selected investigations will have to fulfill these requirements after selection.
  - Resumes – eliminates requirement for the resume of the PM.
  - International Participation – reduced to one page for a table and brief narrative.
  - Heritage – reduced page count from 30 to 15 pages.
- Evaluation Criteria – Rewording reflects simplified requirements (PEA Section 6.1).