

SUMMARY OF CHANGES FROM EVI-5 DRAFT PEA TO FINAL EVI-5 PEA

SECTION IN FINAL PEA	Changes Made
Section 1.2: Earth Venture Background	Explicitly refers to the 2017 Decadal Survey’s six science and application areas.
Section 1.3 Overview of This Program Element Appendix	Specifically mention that Instrument Investigations must encompass the provision of a flight-qualified spaceflight instrument or <u>instrument system that is comprised of multiple instruments</u> that are ready for integration to a spacecraft (Phases A-C).
Table 1	Changed to “MAIA (Multi-Angle Imager for Aerosols) will use a <u>camera</u> from Low Earth Orbit (LEO)”. The MAIA design was modified from a twin camera to a single camera.
Section 4.1 Eligibility to Propose	Provided explanation about the eligibility of foreign proposers and also specifically, to proposers from the People’s Republic of China.
Section 4.3 Science Requirements and Constraints	Added the precision that if threshold and baseline requirements are identical, any project descope would require full review by NASA.
Section 4.5.1 Cost Requirements and Constraints	Clarified that NASA may also decide to partially fund an SEO request.
Section 4.5.1 Cost Requirements and Constraints	Clarified that while a Communication Program is not required, projects are allowed and encouraged to include communication elements (e.g. website development) in their proposal and in their PIMMC. Also added that the ESSP PO has developed capabilities, expertise, and efficient common approaches for describing and communicating with the public regarding the missions in its portfolio. We also added the Draft Earth System Science Pathfinder Program Office: Strategic Communications Plan to the EVI-5 Library.
Section 4.5.1 Cost Requirements and Constraints	Clarified that website development is not one of the planned core communications activities funded by ESSP PO.
Section 4.5.2 Instrument Investigation Cost Requirements and Constraints & Section 4.5.3 CubeSat Investigation Cost Requirements and Constraints	Rewrote the section on how to budget if there is a gap between the delivery of the completed instrument or CubeSat and the start of integration of the instrument to a spacecraft CubeSat to a launch vehicle. The goal was greater clarity, consistency, and to explicitly allow for “the necessary support of key personnel to maintain the integrity of the investigation” during the gap.
Section 4.5.4 Full Cost Accounting for NASA Facilities and Personnel	This CM&O burden rate is now \$47,000 (FY 2019) per “equivalent head.” For years after FY 2019, this number must be inflated.
Section 4.6.2 CubeSat Investigations	Specified that (1) NASA can also accommodate the <u>deployment</u> of a 6U CubeSats in a 1x1x6 configuration from the International Space Station and (2) that CubeSats having 1x1x6 form factors deployed from the ISS meet LSP requirements.

Section 4.6.4 Payload Risk Classification and elsewhere in the PEA	Clarification that we are soliciting <u>Tailored</u> Class D Investigations.
Section 4.6.4 Payload Risk Classification	Clarified that investigations proposed to be in other risk classes (i.e., A, B, or C), or are proposed as Class D but have lifecycle costs greater than \$150M, may also contain proposed adjustments to NASA requirements. Proposers must identify the tailorable requirements described in NPR 7120.5E that are being adjusted, provide a rationale for the adjustment, and describe any cost or schedule impacts that would occur should the adjustments be rejected by NASA.
Section 4.7 SALMON-3 Required Specifications for PEAs	Stated that The Aerospace Corporation is under no limitation for this PEA but that both Cornell Technical Services and Arctic Slope Research Corporation (ASRC) are under Full Limitation.
Section 4.6 SALMON-3 Required Specifications for PEAs	Clarified that a Communication Program may be required after selection, but that those costs will be outside the PIMMC Cap.
Section 4.6.6 NASA Earth Science Data Policy	Rewrote requirements K-22 and K-26 for greater clarity.
Section 5.2.1 Classified Material	Added text about the possible ways that proposers can deal with Classified Materials in their proposals.
Section 6.3.2 International Agreements	Modified text to obtain greater clarity.
Table 3 Summary of Key Information	Due dates were added.