

## 2018 Technology Demonstration (TechDemo) Mission of Opportunity Program Library Change Log

The most recent version of this document may be found in the TechDemo Program Library, at <https://soma.larc.nasa.gov/stp/tdmo/tdmo-library.html>, by selecting “View Change Log”.

Note: If a document is posted out of sequence or is revised, it will be indicated via highlighting in this log.

June 25, 2020: Re-posted [NASA's Mission Specific Launch Vehicle Secondary Payload Adapter System Interface Specifications For Heliophysics Missions of Opportunity](#) Revision 3 updated under [PEA Specified Documents](#) item 1a. This update is made so revision 3 remains available per Q&A 26.

June 11, 2020: [NASA's Mission Specific Launch Vehicle Secondary Payload Adapter System Interface Specifications For Heliophysics Missions of Opportunity](#) updated under [PEA Specified Documents](#) item 1. This update is Revision 4.

May 20, 2020: [Guidelines and Criteria for the Phase A Concept Study](#) updated under [PEA Specified Documents](#) item 12. (Amended on May 19, 2020)

May 20, 2020: [NASA-STD-1006](#), Space System Protection Standard posted under [Additional documents referenced by the Guidelines and Criteria for the Phase A Concept Study](#) item 8.

May 20, 2020: [FAQs for Protecting Spaceborne Assets 13-May-2020](#) posted under [Additional documents referenced by the Guidelines and Criteria for the Phase A Concept Study](#) item 9.

May 1, 2020: Item “1. Program Level Requirements Appendix (PLRA) Examples” in [Documents Referenced by CSR Guidelines](#) changed to item “1. Program Level Requirements Appendix (PLRA) Examples [Examples updated to more recent example documents on May 1, 2020]”.

May 1, 2020: [TESS Level-1 Program Requirements HQ Final Signed Copy Redacted+OCR.pdf](#) posted as [Documents Referenced by CSR Guidelines](#) item 1“a. *TESS*”.

May 1, 2020: [ICON PLRA signed Redacted+OCR.pdf](#) posted as [Documents Referenced by CSR Guidelines](#) item 1“b. *ICON*”.

May 1, 2020: Item “2. Mission Definition Requirements Agreement (MDRA) Examples”

in Documents Referenced by CSR Guidelines changed to item “2. Mission Definition Requirements Agreement (MDRA) Example [Example updated to more recent example document on May 1, 2020. Submission, as part of the CSR, of a draft MDRA based on previous examples is acceptable]”.

May 1, 2020: ICON L2 Project Requirements.pdf posted as Documents Referenced by CSR Guidelines item 2“a. *ICON*”.

May 1, 2020: Item 2“b. *IRIS*” in Documents Referenced by CSR Guidelines is deleted.

October 11, 2019: *Guidelines and Criteria for the Phase A Concept Study* updated under PEA Specified Documents item 12. (Amended on October 11, 2019)

October 3, 2019: *Guidelines and Criteria for the Phase A Concept Study* updated under PEA Specified Documents item 12. (Amended on October 3, 2019)

September 5, 2019: *Security Requirements for Cryptographic Modules*, FIPS PUB 140-2 posted under Additional documents referenced by the Guidelines and Criteria for the Phase A Concept Study item 7.

September 3, 2019:

- *Guidelines and Criteria for the Phase A Concept Study* updated under PEA Specified Documents item 12.
- *NASA's Mission Specific Launch Vehicle Secondary Payload Adapter System Interface Specifications For Heliophysics Missions of Opportunity* updated under PEA Specified Documents item 1. This update is Revision 3.
- *Launch Service Interface Requirements Document (LSIRD) Secondary Payload Supplement* posted under Additional documents referenced by the Guidelines and Criteria for the Phase A Concept Study item 6.

August 15, 2019: New section created: Additional documents referenced by the *Guidelines and Criteria for the Phase A Concept Study*. Documents posted here include:

- Item 1, PLRA example documents
- Item 2, MDRA example documents
- Item 3, Sample international agreement documents
- Item 4, NPR 8000.4B
- Item 5, CSR Conflicted Party List

August 15, 2019: *Guidelines and Criteria for the Phase A Concept Study* updated under PEA Specified Documents item 12. This document replaces the 2016 Heliophysics Explorer example document that was located at this link. The current document is a draft CSR guidelines document that addresses both the Heliophysics Technology Demonstration (PEA L) and Heliophysics Science (PEA M) solicitations.

October 1, 2018: *IMAP Transfer Trajectory Initial State* posted under PEA Specified Documents item 18.

September 21, 2018: *SPD-19, Meeting the 70% JCL Requirement in PI-led Missions* added to SALMON-3 Specified Documents item 17.

September 19, 2018: *NASA's Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter System Interface Specification For Heliophysics Missions of Opportunity* updated under PEA Specified Documents item 1. This update is Revision 2.

September 7, 2018: "RUAG PAS 610S CAD models" posted under PEA Specified Documents item 17. The following models were posted:

S0001-941\_Activering610.stp posted as “a. *Active Ring Model*”.  
S0001-942\_Passivering610.stp posted as “b. *Passive Ring Model*”.  
Release Envelope PAS 610S.stp posted as “c. *Release Envelope*”.  
Installation Envelope PAS 610S.stp posted as “d. *Installation Envelope*”.

August 9, 2018: Minor changes made in Additional NASA and Federal Documents to be more consistent with references in SALMON-3.

August 7, 2018: *2018 Heliophysics TechDemo MO PEA Significant Changes from Draft PEA* posted under PEA Specified Documents item 16.

August 6, 2018: *Guidelines and Criteria for the Phase A Concept Study* posted under PEA Specified Documents item 12. This 2016 Heliophysics Explorer document currently serves as an example document.

August 2, 2018: *NASA’s Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter System Interface Specification For Heliophysics Missions of Opportunity* updated under PEA Specified Documents item 1. This update adjusts the document title.

August 2, 2018: *Microsoft Excel Templates*, in SALMON-3 Specified Documents updated to simply cost tables.

August 2, 2018: TRL documents, Item 15, added to PEA Specified Documents. (Note that the 1<sup>st</sup> document listed is also listed in the SALMON-3 Specified Documents.)

August 2, 2018: *NPR 7123.1B NASA Systems Engineering Processes and Requirements* in SALMON-3 Specified Documents updated to show later expiration date.

August 2, 2018: *NASA/SP-2016-3404/REV1 NASA WBS Handbook* posted in PEA Specified Documents, item 14. The older version was removed from SALMON-3 Specified Documents.

August 2, 2018: Under [Additional NASA and Federal Documents](#), the NODIS library and NASA Procurement Information Circulars links were corrected.

July 12, 2018: The Class D and Streamlined Class D related documents were grouped together in the [PEA Specified Documents](#) item 9. New documents added to the group are: [Science Mission Directorate Class D Town Hall Presentation](#) and [TROPICS Project Plan](#). Also, a link to [Earned Value Management](#) was added to this group.

July 11, 2018: [NASA's Multi-Mission Payload, Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter \(ESPA\) System Interface Specifications \(SIS\) For Heliophysics Missions of Opportunity](#) updated under [PEA Specified Documents](#) item 1. This document replaces the draft version.

April 30, 2018: 2018-IMAP-ESPA-SIS\_DraftPEARelease-version-R1.pdf posted as [PEA Specified Documents](#) item "1. [NASA's Multi-Mission Payload, Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter \(ESPA\) System Interface Specifications \(SIS\) For Heliophysics Missions of Opportunity](#)". This document supersedes [SALMON-3 Specified Documents](#) item "5. [LV Launch Services Program Information Summary](#)".

May 4, 2018: N\_PR\_2200\_002D\_.pdf posted as [Other Applicable NASA and Federal Documents](#) item "4. NPR 2200.2D, [Requirements for Documentation, Approval and Dissemination of Scientific and Technical Information](#)".

May 4, 2018: N\_PD\_2521\_001B\_main posted as [Other Applicable NASA and Federal Documents](#) item "3. NPD 2521.1B, [Communications and Material Review](#)".

May 4, 2018: N\_PR\_8705\_0004\_[Change\_3].pdf posted as [Other Applicable NASA and Federal Documents](#) item "2. NPR 8705.4, [Risk Classification for NASA Payloads \(Updated w/change 3\)](#)".

May 4, 2018: N\_PR\_8715\_003D\_[Change\_10].pdf posted as [Other Applicable NASA and Federal Documents](#) item "1. NPR 8715.3D, [NASA General Safety Program Requirements](#)".

May 4, 2018: STP\_Budget\_Summary\_Exhibit\_A.doc posted as [PEA Specified Documents](#) item "15. [STP Budget Summary, Exhibit A](#)".

May 4, 2018: No document posted for [PEA Specified Documents](#) item "14. [Guidelines and Criteria for the Phase A Concept Study](#)". A draft version of the document will be posted before the release of the FINAL TechDemo PEA.

May 4, 2018: NASA\_Systems\_Engineering\_Handbook\_(SP-2016-6105)\_Rev\_2.pdf posted as [PEA Specified Documents](#) item "13. NASA/SP-2016-6105 Rev 2, [NASA Systems Engineering Handbook](#)".

May 4, 2018: OCE\_25\_Redacted.pdf posted as PEA Specified Documents item “12. *Guidance and Expectations for Small Category 3, Risk Classification D (Cat3/ClassD) Space Flight Projects with Life-Cycle Cost Under \$150*”.

May 4, 2018: TMC\_ClassC\_ClassDPayloads\_final.pdf posted as PEA Specified Documents item “11. *Technical, Management, and Cost Panel Expectations on SMA-Related Program Requirements for NASA Class C and Class D Payloads*”.

May 4, 2018: EELV-RideshareUsersGuide-v1-Signed[6].pdf posted as PEA Specified Documents item “10. *Evolved Expendable Launch Vehicle Rideshare User’s Guide*”.

May 4, 2018: Program Library name of PEA Specified Documents item “7. *NASA SMD Tailoring/Streamlining Decision Memorandum*” updated to be “7. *NASA SMD Class-D Tailoring/Streamlining Decision Memorandum* (issued Dec. 7, 2017)”. Note that this Change Log incorrectly used the name “7. *SMD Tailoring/Streamlining Decision Memorandum*”.

May 4, 2018: Program Library name of PEA Specified Documents item “5. STP-PLAN-0005, Revision, *SOLAR TERRESTRIAL PROBES (STP) PROGRAM PLAN*” updated to be item “5. STP-PLAN-0005, Revision [B], *SOLAR TERRESTRIAL PROBES (STP) PROGRAM PLAN*”.

May 4, 2018: Program Library name of PEA Specified Documents item “3. *2014 Science Mission Directorate Science Plan*” updated to be “3. *2014 Science Plan*”.

May 4, 2018: Note that this Change Log did not properly italicize the name of SALMON-3 Specified Documents item “5. *ELV Launch Services Program Information Summary*”.

May 4, 2018: Program Library section header SALOM-3 Specified Documents corrected to be SALMON-3 Specified Documents.

May 4, 2018: Program Library name of Strategic Documents item “2. *2014 Science Mission Directorate Science Plan*” updated to be “2. *2014 Science Plan*”.

April 30, 2018: 206985\_2015\_nasa\_plan-for-web.pdf posted as PEA Specified Documents item “9. *NASA Plan for Increasing Access to the Results of Scientific Research*”.

April 30, 2018: EHPDMARClassD\_Released.pdf posted as PEA Specified Documents item “8. EHPD-RQMT-0003 Revision, *Explorers and Heliophysics Projects Division (EHPD) Mission Assurance Requirements (MAR) Mission Risk Classification - NPR 7120.5 Class D*”.

April 30, 2018: SMD-Class-D-Policy\_Redacted.pdf posted as PEA Specified Documents item “7. *SMD Tailoring/Streamlining Decision Memorandum*”.

April 30, 2018: N\_PR\_7120\_005E\_.pdf posted as PEA Specified Documents item “6. NPR 7120.5E, *NASA Space Flight Program and Project Management Requirements w/Changes 1-15*”.

April 30, 2018: STPProgPlanFINALsigned6-28-16released7-7-16\_copy\_Redacted.pdf posted as PEA Specified Documents item “5. STP-PLAN-0005, Revision [B], *SOLAR TERRESTRIAL PROBES (STP) PROGRAM PLAN*”.

April 30, 2018: 2014\_HelioRoadmap\_Final\_Reduced.pdf posted as PEA Specified Documents item “4. *Our Dynamic Space Environment: Heliophysics Science and Technology Roadmap for 2014-2033*”. Note that this the same document as Strategic Documents item “3. *Our Dynamic Space Environment: Heliophysics Science and Technology Roadmap for 2014-2033*”.

April 30, 2018: 2014\_Science\_Plan\_PDF\_Update\_508\_TAGGED\_1.pdf posted as PEA Specified Documents item “3. *2014 Science Mission Directorate Science Plan*”. Note that this the same document as Strategic Documents item “2. *2014 Science Mission Directorate Science Plan*”.

April 30, 2018: nasa\_2018\_strategic\_plan.pdf posted as PEA Specified Documents item “2. NPD 1001.0C, *2018 NASA Strategic Plan*”. Note that this the same document as Strategic Documents item “1. NPD 1001.0C, *2018 NASA Strategic Plan*”.

April 30, 2018: 2018-IMAP-ESPA-SIS\_DraftPEARelease-version-R1.pdf posted as PEA Specified Documents item “1. *NASA’s Multi-Mission Payload, Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter (ESPA) System Interface Specifications (SIS) For Heliophysics Missions of Opportunity*”. This document supersedes SALMON-3 Specified Documents item “5. *LV Launch Services Program Information Summary*”.

April 30, 2018: nasa-std-8719.14a\_with\_change\_1.pdf posted as SALMON-3 Specified Documents item “17. NASA-STD-8719.14A (with Change 1), *Process for Limiting Orbital Debris*”.

April 30, 2018: N\_PR\_8715\_006B\_.pdf posted as SALMON-3 Specified Documents item “16. NPR 8715.6B, *NASA Procedural Requirements for Limiting Orbital Debris and Evaluating the Meteoroid and Orbital Debris Environments*”.

April 30, 2018: SALMON-3\_TablesB1-2-3a-3b-4excel.xls posted as SALMON-3 Specified Documents item “15. *Updated Microsoft Excel Versions of the Template Tables in the SALMON-3 AO*”.

April 30, 2018: NASA2017NewStartInflationIndexForFY2018.pdf posted as SALMON-3 Specified Documents item “14. *NASA 2017 NEW START INFLATION INDEX*”.

April 30, 2018: TRL\_Examples.pdf posted as SALMON-3 Specified Documents item “13. *System Level TRL 6 Examples*”.

April 30, 2018: handbook\_sffas\_4.pdf posted as SALMON-3 Specified Documents item “12. *Managerial Cost Accounting Concepts and Standards for the Federal Government 4: Managerial Cost Accounting Standards and Concepts*”.

April 30, 2018: TableOfCostElementsForNASACenterBudgetProposals.pdf posted as SALMON-3 Specified Documents item “11. *Table of Cost Elements for NASA Center Budget Proposals in response to SMD AOs*”.

April 30, 2018: SMD\_SC\_Guide\_1\_120508.pdf posted as SALMON-3 Specified Documents item “10. *Explanatory Guide to the NASA Science Mission Directorate Educational Merit Evaluation Factors for Student Collaboration Elements, version 1.1*”

April 30, 2018: Available\_Spectrum\_and\_ChannelLimits\_By\_Allocated\_Service.pdf posted as SALMON-3 Specified Documents item “9. *Available Spectrum and Channel Limits by Allocated Service*”.

April 30, 2018: SCaN-MOCS-0001\_Rev1\_Redacted.pdf posted as SALMON-3 Specified Documents item “8. SCaN-MOCS-0001, *Space Communications and Navigation (SCaN) Mission Operations and Communications Services (MOCS) Revision 1*”.

April 30, 2018:  
TableOfKeyMilestonesAndCostsForLaunchApprovalProcessesInFY15Dollars.pdf posted as SALMON-3 Specified Documents item “7. *Table of key milestones and costs for launch approval processes in FY15 dollars*”.

April 30, 2018: national\_space\_transportation\_policy\_11212013.pdf posted as SALMON-3 Specified Documents item “6. *NATIONAL SPACE TRANSPORTATION POLICY*”.

April 30, 2018: No document posted as SALMON-3 Specified Documents item “5. ELV Launch Services Program Information Summary”, which has been superseded by PEA Specified Documents item “1. *NASA’s Multi-Mission Payload, Mission Specific Evolved Expendable Launch Vehicle Secondary Payload Adapter (ESPA) System Interface Specifications (SIS) For Heliophysics Missions of Opportunity*”.

April 30, 2018: LSP-Advisory-Service-Plan.pdf posted as SALMON-3 Specified Documents item “4. *Launch Services Program (LSP) Advisory Services Plan*”.

April 30, 2018: N\_PR\_7123\_001B\_Change\_4.pdf posted as SALMON-3 Specified

Documents item “3. NPR 7123.1B, *NASA Systems Engineering Processes and Requirements (Updated w/Change 4)*”.

April 30, 2018: NASA\_SP-2010-3404.pdf posted as SALMON-3 Specified Documents item “2. NASA/SP-2010-3404, *NASA WBS Handbook*”.

April 30, 2018: SMD\_Mission\_Extension.pdf posted as SALMON-3 Specified Documents item “1. *SMD Mission Extension Paradigm*”.

April 30, 2018: Link provided in Strategic Documents to the National Research Council Heliophysics Decadal Survey for 2013-2022, *Solar and Space Physics: A Science for a Technological Society*.

April 30, 2018: 2014\_HelioRoadmap\_Final\_Reduced.pdf posted as Strategic Documents item “3. *Our Dynamic Space Environment: Heliophysics Science and Technology Roadmap for 2014-2033*”.

April 30, 2018: 2014\_Science\_Plan\_PDF\_Update\_508\_TAGGED\_1.pdf posted as Strategic Documents item “2. *2014 Science Mission Directorate Science Plan*”.

April 30, 2018: nasa\_2018\_strategic\_plan.pdf posted as Strategic Documents item “1. NPD 1001.0C, *2018 NASA Strategic Plan*”.