

Discovery 2014 Announcement of Opportunity Program Library Change Log

This document may be found in the Discovery Program Library (DPL), at <http://discovery.larc.nasa.gov/dpl.html>, by selecting “DPL Change Log”.

Updates to the DPL are represented in reverse-chronological order. If a document is revised, the latest revision will be indicated via **highlighting**.

April 18, 2016: [12b_2015_NASA_New_Start_Inflation_Index_for_FY16_Use_Final_Dist.xlsx](#) posted as an update to Program Specific Documents item “12. *2015 NASA New Start Inflation Index for FY 16 Use*”, the name of which was also updated.

April 7, 2016: [6a_SCaN-MOCS-001_baseline_FINAL_Redacted.pdf](#) posted as an update to Program Specific Documents item “6. *Space Communications and Navigation (SCaN) Mission Operations and Communications Services (MOCS)*”, the name of which was also updated. This update does not impose any new requirements on concept study teams.

March 14, 2016: [Conflicted_Party_List_\(Rev_F_03-14-16\).xlsx](#) posted as Program Specific Documents item “47. *Microsoft Excel Template for Requirement CS-8*”.

January 19, 2016: [Discovery2014PhaseA_Guidelines_20160119.pdf](#) posted as an update to Program Specific Documents item “3. *Guidelines and Criteria for the Phase A Concept Study*”.

January 19, 2016: [Discovery2014PhaseA_Guidelines_20160119_CT.pdf](#) posted as Program Specific Documents item “3A. *Guidelines and Criteria for the Phase A Concept Study Change Tracked*”.

January 19, 2016: [PMPO_Program_Plan_10-10-14_Change_1_12-18-15.pdf](#) posted as an update to Program Specific Documents item “24. DISC-PLAN-006B, *Discovery Program Office Safety and Mission Assurance Implementation Plan*”, the name of which was also updated. The new plan represents a consolidation of the Discovery and New Frontiers Program Plans, and also covers the Solar Systems Exploration Program. There are no new requirements for projects resulting from the new plan, nor should there be any impact on projects.

January 19, 2016: [Juno_with_Belgium.pdf](#) posted as Program Specific Documents item “44. *Sample Juno Language for the Technical Content of an International Agreement*” and [MSL_with_France.pdf](#) posted as Program Specific Documents item “45. *Sample MSL Language for the Technical Content of an International Agreement*”. A full agreement has not been posted because each is becoming country/partner unique and one

is not the same as another. Additionally, the legal language is constantly changing and NASA does not want proposers to waste time on parts of the agreement that have changed (or worse share with a partner what they think the language is and thus make it all the more difficult for NASA to change it later).

January 19, 2016: DSOC_TIM_Documents_Pointer.pdf posted as Program Specific Documents item “46. *Deep Space Optical Communications (DSOC) Technical Interchange Meeting (TIM) Documents*”.

January 19, 2016: Due to the elimination of the referenced page, the following text and hyperlink were deleted from Additional NASA and Federal Documents:

NASA Procurement Information Circulars (PICs) may be accessed at <http://www.hq.nasa.gov/office/procurement/regs/pic.html>. The following NASA Procurement Information Circulars are referenced in this AO.

Note that AO referenced item “13. *Procurement Information Circular (PIC) 05-15*” is included in NASA and Federal Documents.

November 9, 2015: Discovery2014PhaseA_Guidelines_20151108a.pdf posted as an update to Program Specific Documents item “3. *Guidelines and Criteria for the Phase A Concept Study*”. Document updated for the Concept Study Kickoff Meeting, and no longer designated as a Draft.

November 9, 2015: SMDLOA_Redacted.pdf posted as Program Specific Documents item “43. *A Letter of Agreement Concerning the Realignment of Funding Responsibilities Between the Science Mission Directorate and the Space Communications and Navigation Program*”.

December 9, 2014: 4b_Discovery_2014AO-ELVInfoSummary_9Dec2014.pdf posted as an update to Program Specific Documents item “4. *ELV Launch Services Information Summary*”. Point of contact section modified to remove “[p]rior to AO release,”.

November 14, 2014: 4a_Discovery_2014AO-ELVInfoSummary_14Nov2014.pdf posted as an update to Program Specific Documents item “4. *ELV Launch Services Information Summary*”. Payload fairing static envelope figure added to Attachment 2 and point of contact updated.

November 5, 2014: Program Specific Documents item “21. *Goals, Objectives, and Investigations for Venus Exploration*” struck through, as it had been moved to Program Analysis Group Reports item “1. *Goals, Objectives, and Investigations for Venus Exploration*”.

November 5, 2014: Updated name of Program Specific Documents item “20. *NASA’s*

Evolutionary Xenon Thruster - Commercial (NEXT-C) AO Guidebook to add commercial designation. Posted file remained unchanged.

November 5, 2014: 14a_LWRHU_Description_Oct03.pdf posted as an update to Program Specific Documents item “14. *Lightweight Radioisotope Heater Unit (LWRHU) Information Summary*”.

November 5, 2014: 12a_2014_NASA_New_Start_Inflation_Index_Use_in_FY_2015.xlsx posted as an update to Program Specific Documents item “12. *2014 NASA New Start Inflation Index Use in FY 2015*”, the name of which was also updated.

November 5, 2014: 9a_AO_TablesB1-2-3a-3b-5excel_20140917.xls posted as an update to Program Specific Documents item “9. *Microsoft Excel versions of the template tables in the AO*”.

November 5, 2014: Program Specific Documents item “7. *Advanced Multi Mission Operating System Services*” struck through, despite not having been posted, as it was superseded by Program Specific Documents item “6. *NASA’s Mission Operations and Communications Services*”.

November 5, 2014: 6_NASA_MOCS_10_01_14.pdf posted as Program Specific Documents item “6. *NASA’s Mission Operations and Communications Services*”.

November 5, 2014: 3_Discovery2014DraftPhaseA_Guidelines_1027a.pdf posted as Program Specific Documents item “3. *Draft Guidelines and Criteria for the Phase A Concept Study*”, the name of which was updated with a draft designation.

November 5, 2014: 11a_N_PR_8715_003C_chg9.pdf posted as an update to NASA and Federal Documents item “11. NPR 8715.3C, *NASA General Safety Program Requirements*”. The expiration date of the document was extended from March 12, 2014 to December 12, 2014. The document’s change number remained at 9.

November 5, 2014: 9a_N_PR_8715_006A_chg1.pdf posted as an update to NASA and Federal Documents item “9. NPR 8715.6A, *NASA Procedural Requirements for Limiting Orbital Debris*”. The expiration date of the document was extended from May 14, 2014 to September 14, 2014. Note that the expiration date on the controlling NASA Online Directives Information System (NODIS) web page is June 14, 2015. The document’s change number remained at 1.

November 5, 2014: NASA and Federal Documents item “5. NPD 7100.10E, *Curation of Extraterrestrial Materials*” was not updated, but note that the expiration date on the controlling NASA Online Directives Information System (NODIS) web page is February 11, 2015.

November 5, 2014: 1a_N_PR_7120_005E_chg12.pdf posted as an update to NASA and Federal Documents item “1. NPR 7120.5E, *NASA Space Flight Program and Project*”.

Management Requirements". The document was revised from change 10 to change 12.

November 5, 2014: Initial version of this document posted. Subsequent versions will not be noted herein.

September 25, 2014: 42_NEXT_LDT_Interim_Report_Pointer.pdf posted as Program Specific Documents item "42. *NASA's Evolutionary Xenon Thruster (NEXT) Long-Duration Test (LDT) Post-test Inspection Interim Report*".

September 22, 2014: Program Specific Documents item "41. *Developing a Data Pipeline and PDS-Compliant Archive in Response to the Discovery Announcement of Opportunity (AO)*" struck through, as it had been superseded by Program Specific Documents item "22. *Developing a Data Pipeline and Planetary Data System (PDS)-Compliant Archive*".

September 10, 2014: 5_Launch_Services_Program_LSP_Advisory_Services_Plan.pdf posted as Program Specific Documents item "5. *NASA Launch Services Program (LSP) Advisory Services Plan*".

September 10, 2014: 4_opag_goals_doc_8_16_2014b.pdf posted as Program Analysis Group Reports item "4. *Scientific Goals for Exploration of the Outer Solar System*".

September 10, 2014: 3_MEPAG_Goals_Document_2010_v17.pdf posted as Program Analysis Group Reports item "3. *Mars Science Goals, Objectives, Investigations, and Priorities: 2010*".

September 10, 2014: 2_LER-Version-1-1.pdf posted as Program Analysis Group Reports item "2. *The Lunar Exploration Roadmap: Exploring the Moon in the 21st Century: Themes, Goals, Objectives, Investigations, and Priorities, 2011*".

September 10, 2014: 1_VEXAG_Goals_Document_2014.pdf posted as Program Analysis Group Reports item "1. *Goals, Objectives, and Investigations for Venus Exploration*".

September 10, 2014: Program Analysis Group Reports section added between Strategic Documents and Program Specific Documents sections.

September 9, 2014: 41_Developing_a_Discovery_Dataset-8.pdf posted as Program Specific Documents item "41. *Developing a Data Pipeline and PDS-Compliant Archive in Response to the Discovery Announcement of Opportunity (AO)*".

September 9, 2014: 40_DSAC_information_package.pdf posted as Program Specific Documents item "40. *Deep Space Atomic Clock: Information for Discovery Proposers*".

September 2014".

September 9, 2014: 39_ELT_Discovery_AO_Rev_140825.pdf posted as Program Specific Documents item "39. *Deep Space Atomic Clock: Information for Discovery Proposers September 2014*".

September 9, 2014: 18a_EUT_Discovery_AO_Rev_140825.pdf posted as an update to Program Specific Documents item "18. *Electra Mars Proximity-Link Communications and Navigation Payload Description*", the name of which was also updated.

September 9, 2014: 17_DiscoveryProposersGuideToOrbiters_Rev_140903.pdf posted as Program Specific Documents item "17. *Mars Relay Description for Discovery 2014 Proposals*", the name of which was updated with the year 2014.

September 2, 2014: HEEET_Thermal_Testing_Summary_(HEEET-5001)_Pointer.pdf posted as Program Specific Documents item "38. *HEEET Arcjet/Thermal Test Summary Report CY2013-14*".

August 29, 2014: DSOC_Interface_Definitions_2014-08-27.pdf posted as Program Specific Documents item "37. *DSOC Interface Definitions*".

August 26, 2014: 36_PV_heatshield.pdf posted as Program Specific Documents item "36. *Analysis of the Heat-Shield Experiment on the Pioneer-Venus Entry Probes*".

August 26, 2014: 35_mercury_flight_test.pdf posted as Program Specific Documents item "35. *Entry Performance of the Mercury Spacecraft Heat Shield*".

August 26, 2014: 34_ct_scan_stardust.pdf posted as Program Specific Documents item "34. *X-Ray Computed Tomography Inspection of the Stardust Heat Shield*".

August 21, 2014: 33_WeatherStats.pdf posted as Program Specific Documents item "33. *Deep-Space Optical Communications (DSOC) Project Images: Joint Cloud Cover Statistics for Palomar Mountain, CA and Table Mountain, CA*".

August 21, 2014: 32_DSOC-FactSheet.pdf posted as Program Specific Documents item "32. *Deep-Space Optical Communications (DSOC) Factsheet*".

August 21, 2014: Program Specific Documents item "2. *Discovery Safety, Reliability, and Quality Assurance Requirements*" struck through, despite not having been posted, as it was superseded by Program Specific Documents items "23. DISC-RQMT-002C, *Discovery Program Safety and Mission Assurance Guidelines and Requirements*" and

“24. DISC-PLAN-006B, *Discovery Program Office Safety and Mission Assurance Implementation Plan*”.

August 20, 2014: 31_GLT_Optics.pdf posted as Program Specific Documents item “31. *Deep-space Optical Terminals (DOT) Ground Laser Transmitter (GLT) Trades and Conceptual Point Design*”.

August 20, 2014: 30_FLT_Paper.pdf posted as Program Specific Documents item “30. *Overview and Design of the DOT Flight Laser Transceiver*”.

August 20, 2014: 29_DOT_SE_Overview.pdf posted as Program Specific Documents item “29. *Deep-space Optical Terminals (DOT) Systems Engineering*”.

August 20, 2014: 28_HEEET_Systems_Requirements_and_Verification_Plan_(HEEET-0003).xls posted as Program Specific Documents item “28. *HEEET Systems Requirements and Verification Plan*”.

August 20, 2014: 27_HEEET_Mission_Questionnaire_(HEEET-0004).pdf posted as Program Specific Documents item “27. *Mission Characterization for HEEET Design*”.

August 20, 2014: 26_HEEET_Mission_TPS_Sizing_Summary_(HEEET-1004).pdf posted as Program Specific Documents item “26. *Overview of Mission Sizing For Heatshield for Extreme Entry Environments Technology (HEEET) Materials*”.

August 20, 2014: 25_HEEET_Technology_Overview_(HEEET-1002).pdf posted as Program Specific Documents item “25. *Overview of Heatshield for Extreme Entry Environments Technology (HEEET)*”.

August 20, 2014: 24_D_S-MA_Implementation_Plan_Rev_B.pdf posted as Program Specific Documents item “24. DISC-PLAN-006B, *Discovery Program Office Safety and Mission Assurance Implementation Plan*”.

August 20, 2014: 23_D_S-MA_Guidelines_and_Rqmts_Rev_C.pdf posted as Program Specific Documents item “23. DISC-RQMT-002C, *Discovery Program Safety and Mission Assurance Guidelines and Requirements*”.

July 23, 2014: Developing_a_Discovery_Dataset-8.pdf posted as Program Specific Documents item “22. *Developing a Data Pipeline and Planetary Data System (PDS)-Compliant Archive*”.

July 17, 2014: VEXAG_Goals_Document_2014.pdf posted as Program Specific Documents item “21. *Goals, Objectives, and Investigations for Venus Exploration*”.

July 14, 2014: 20-NEXT-C_AO_Guidebook_11July14.pdf posted as Program Specific Documents item “20. [NASA’s Evolutionary Xenon Thruster \(NEXT\) AO Guidebook](#)”.

July 8, 2014: EDL_Instrumentation_ESI_GO_061514_Final.pdf posted as Program Specific Documents item “16. [Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Goals and Objectives](#)”.

July 8, 2014: EDL_Instrumentation_ESI_programmatics_070214.pdf posted as Program Specific Documents item “15. [Entry, Descent and Landing \(EDL\) Instrumentation Engineering Science Investigation \(ESI\) Proposal Details and Programmatic Structure](#)”.

July 7, 2014: PIC_05-15.pdf posted as NASA and Federal Documents item “13. [Procurement Information Circular \(PIC\) 05-15](#)”.

July 7, 2014: handbook_sffas_4.pdf posted as NASA and Federal Documents item “12. [Statement of Federal Financial Accounting Standards 4: Managerial Cost Accounting Standards and Concepts](#)”.

July 7, 2014: N_PR_8715_003C_.pdf posted as NASA and Federal Documents item “11. NPR 8715.3C, [NASA General Safety Program Requirements](#)”.

July 7, 2014: 871914.pdf posted as NASA and Federal Documents item “10. NASA STD 8719.14, [NASA Process for Limiting Orbital Debris](#)”.

July 7, 2014: NPR_8715_006A.pdf posted as NASA and Federal Documents item “9. NPR 8715.6A, [NASA Procedural Requirements for Limiting Orbital Debris](#)”.

July 7, 2014: NASA_SP-2010-3404.pdf posted as NASA and Federal Documents item “8. NASA/SP-2010-3404, [NASA WBS Handbook](#)”.

July 7, 2014: MSRDraftTestProtocol.pdf posted as NASA and Federal Documents item “7. NASA/CP 2002 211842, [A Draft Test Protocol for Detecting Possible Biohazards in Martian Samples Returned to Earth](#)”.

July 7, 2014: NASA-HDBK-6022b.pdf posted as NASA and Federal Documents item “6. NASA HDBK 6022b, [NASA Handbook for the Microbiological Examination of Space Hardware \(DRAFT\)](#)”.

July 7, 2014: N_PD_7100_010E_main.pdf posted as NASA and Federal Documents item “5. NPD 7100.10E, [Curation of Extraterrestrial Materials](#)”.

July 7, 2014: N_PD_8020_007G_main_chg1.pdf posted as NASA and Federal Documents item “5. NPD 8020.7G, [Biological Contamination Control for Outbound and](#)

Inbound Planetary Spacecraft".

July 7, 2014: N_PR_8020_012D_.pdf posted as NASA and Federal Documents item "3. NPR 8020.12D, *Planetary Protection Provisions for Robotic Extraterrestrial Missions*".

July 7, 2014: N_PR_7123_001B_chg2.pdf posted as NASA and Federal Documents item "2. NPR 7123.1B, *NASA Systems Engineering Processes and Requirements*".

July 7, 2014: N_PR_7120_005E_chg10.pdf posted as NASA and Federal Documents item "1. NPR 7120.5E, *NASA Space Flight Program and Project Management Requirements*".

July 7, 2014: TRL_6_Examples_20140613.pdf posted as Program Specific Documents item "19. *TRL 6 Examples*".

July 7, 2014: Electra_Description.pdf posted as Program Specific Documents item "18. *Mars Relay Description for Discovery Proposals*".

July 7, 2014: RHU_Description.pdf posted as Program Specific Documents item "14. *Lightweight Radioisotope Heater Unit (LWRHU) Information Summary*".

July 7, 2014: D-37294.pdf posted as Program Specific Documents item "13. *Sample Return Primer and Handbook*".

July 7, 2014: 2013_NNSI_FY14-1.xlsx posted as Program Specific Documents item "12. *FY14 NASA New Start Inflation Indices (NNSI)*".

July 7, 2014: Model_Contract.pdf posted as Program Specific Documents item "11. *Draft Model Contract for Phases B/C/D/E*".

July 7, 2014: SPD-19_PI-ledmissions_70JCL_TAGGED.pdf posted as Program Specific Documents item "10. *SPD 19, Meeting the 70% JCL Requirement in PI led Missions*".

July 7, 2014: AO_TablesB1-2-3a-3b-5excel_20140703.xls posted as Program Specific Documents item "9. *Microsoft Excel versions of the template tables in the AO*".

July 7, 2014: SMD_Mission_Extension.pdf posted as Program Specific Documents item "8. *SMD Mission Extension Paradigm*".

July 7, 2014: Discovery_2014AO-ELVInfoSummary_11Jun2014.pdf posted as Program Specific Documents item "4. *ELV Launch Services Information Summary*".

July 7, 2014: DiscoveryProgramPlan-FinalPublic.pdf posted as Program Specific Documents item "1. DISC-PLAN-001B, *Discovery Program Plan*".

July 7, 2014: 2014_Science_Plan-0501_tagged.pdf posted as Strategic Documents item

“2. 2014 Science Mission Directorate Science Plan”.

July 7, 2014: FY2014_NASA_StrategicPlan_508c.pdf posted as Strategic Documents item “1. NPD 1001.0B, *2014 NASA Strategic Plan*”.