Task Book Report Generated on: 05/01/2024

| Olson, Sandra Ph.D. | Fiscal Year: | FY 2023 | Task Last Undated | EV 04/02/2022 |
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| Project Title: Program Division Name: Nome No | | | Task Last Opuateu. | F 1 04/03/2023 |
| Division Name: Physical Sciences Physical Sciences Physical Sciences COMBUSTION SCIENCE—Combustion science Elements/Subdiscipline: Program/Discipline— Elements/Subdiscipline: Diotal Agency Name: TechPort: No Human Research Program Elements: None Space Biology Element: None Space Biology Element: None Space Biology Special Category: None PI Email: Sandra Oltonominus acev Fax: FY 216 977-7065 PI Organization Type: NASA CENTER Program/Discipline: PI Address 1: LTX. Combustion Physics and Reseting Systems Branch PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Verb Page: Clicy: Cleveland State: OII Zip Code: 44135 Congressional District: 9 Comments: Project Type: FLIGHT,GROUND Solicitation / Funding Source Season, Approx ANAS A Ground Salation of Fundamental Conference of Part Part Part Part Part Part Part Part | | · | Standard of Eiro Safaty in Space Subtoom 1. S | tudy of Flammahility of Fahria |
| Program/Discipline: | Project Title: | | Standard of Fire Safety in Space - Subteam 1: S | tudy of Fiaminability of Fabric |
| Program Discipline CoMBUSTION SCIENCE—Combustion science | Division Name: | Physical Sciences | | |
| Reference Name TechPort No | Program/Discipline: | | | |
| Human Research Program Riements None Space Biology Element: Space Biology Element: Space Biology Special Cuttegory: None Ple Mailer NaSA Clentre Nasa Reacting Systems Branch Ple Address 2: Ple Address 3: Project Type: Clory Clory Clory Clory Clory Advantage Project Type: Project | Program/Discipline Element/Subdiscipline: | COMBUSTION SCIENCECombustic | on science | |
| Human Research Program Risks: None Space Biology Element: None Space Biology Cross-Element blooker None Space Biology Special Category: None PI Email: Sandra Olson/finasa.gov Fax: FY 216 977-7065 PI Comminity Name: NASA CENTER Phone: 216-433-2859 Porganization Name: NASA Genn Research Center PI Address 1: LTX. Combustion Physics and Reacting Systems Branch PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Web Page: City: Cleveland State: OH City: Cleveland State: OH City: Congressional District: 9 Comments: Project Type: FLIGHT.GROUND Solicitation / Funding Source: States to an International Standard of Fire Safety in Space Start Date: 07/01/2014 End Date: 03/031/2024 No. of Post Does: 0 No. of PhD Candidates: 0 No. of PhD Candidates: 0 No. of PhD Candidates: 0 No. of Bachelor's Degrees: 0 No. of Backelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Backelor's Candidates: 0 No. of Bachelor's Degrees: 0 No. of Backelor's Candidates: 0 Monitoring Center: NASA GRC Contact Monitor: Urban, David Onter Phone: 216-433-2835 Contact Monitor: Urban, David NoTE: End date changed to 3/31/2024 per PI (Ed., 10/520) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/520) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/520) | Joint Agency Name: | | TechPort: | No |
| Space Biology Element: None Space Biology Cross-Element None Space Biology Special Category: None PI Email: Sandra Olsen@man.cov Fax: FY 216 977-7065 PI Organization Type: NASA CENTER Phone: 216-433-2859 Organization Type: NASA Glean Research Center PI Address 1: LTX, Combustion Physics and Reacting Systems Branch PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Web Page: City: Cleveland State: OH Cipy Code: 44135 Congressional District: 9 Comments: Project Type: FLIGHT, GROUND Solicitation / Funding Source: Research on an International Standard of Fire Safety in Space Agency OLAXA, A) And Franchmental Standard of Fire Safety in Space No. of Post Docs: 0 No. of Post Docs: 0 No. of Post Docs: 0 No. of Master' Degrees: 0 No. of Master' Deg | Human Research Program Elements: | None | | |
| Space Biology Cross-Element Discipline: None Pl Email: Sandra Olsonöransa gov. Fax: FY 216 977-7065 Pl Organization Type: NASA CENTER Phone: 216-433-2859 Organization Type: NASA Glenn Research Center Pl Address 1: LTX, Combustion Physics and Reacting Systems Branch Pl Address 2: MS 75-5, 21000 Brookpark Rd. Pl Web Page: City: Cleveland State: OH Zip Code: 44135 Congressional District: 9 Comments: FLIGHT, GROUND Solicitation / Funding Source (AXA) AO for Fundamental Reacting of Free Augustion of Free Augustion of Fundamental Reacting of Free Augustion of Fundamental Reacting of Fundamental | Human Research Program Risks: | None | | |
| Sepace Biology Special Category: None None Ple Email: Sandra Olson@masa.gov Fax: FY 216 977-7065 | Space Biology Element: | None | | |
| PI Email: Sandra Olson@mass.gov Fax: FY 216 977-7065 PI Organization Type: NASA CENTER NASA Glenn Research Center PI Address 1: LTX, Combustion Physics and Reacting Systems Branch PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Web Page: City: Cleveland State: OH Zip Code: 44135 Congressional District: Project Type: FLIGHT, GROUND Solicitation / Funding Source: (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space Start Date: 07/01/2014 End Date: 93/31/2024 No. of PhD Degrees: 0 No. of Master' Degrees: 0 No. of Master' Degrees: 0 No. of Master' Degrees: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 No. of Bachelor's Candidates: 0 Monitoring Center: NASA GRC Contact Monitor: Urban, David Contact Monitor: Urban, David NOTE: End date changed to 3/31/2024 per PI (Ed., 10/29/21) NOTE: End date changed to 7/31/2022 per PI (Ed., 10/5/20) NOTE: End date changed to 7/31/2022 per PI (Ed., 10/5/20) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/5/20) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/5/20) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/5/20) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 6/3/19) Dr. Sandra Olson is U.S. Co-Investigator on Japan Aerospace Exploration Agency (JAXA)-sponsored project, "Flammability Limits AI Reduced-g Experiment (FLARE)." JAXA Principal Investigator (PI) is Prof. Osamu Fujita, Hokkaido University. COI Name (Institution): Grant/Contract No.: Internal Project | Space Biology Cross-Element Discipline: | None | | |
| Pl Organization Type: NASA CENTER Phone: 216-433-2859 Organization Name: NASA Glenn Research Center Pl Address 1: LTX, Combustion Physics and Reacting Systems Branch Pl Address 2: MS 77-5, 21000 Brookpark Rd. Pl Web Page: City: Cleveland State: OH Zip Code: 44155 Congressional District: 9 Comments: FLIGHT, GROUND Solicitation / Funding Source: (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space Agency (JAXA) and an International Standard of Fire Safety in Space No. of PhD Degrees: 0 No. of Post Does: 0 No. of Master's Candidates: 0 No. of Master's Candidates: 0 No. of Backelor's Degrees: 0 No. of Master's Candidates: 0 No. of Backelor's Candidates: 0 No. of Backelor's Candidates: 0 No. of Backelor's Candidates: 0 Monitoring Center: NASA GRC Contact Monitor: Urban, David Contact Phone: 216-433-2835 Contact Candidates: david Lurban@mass.cov Flight Program: ISS NOTE: End date changed to 3/31/2024 per PI (Ed., 10/29/21) NOTE: End date changed to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2024 per PI (Ed., 6/3/19) Dr. Sandra Olson is U.S. Co-Investigator on Japan Aerospace Exploration Agency (JAXA)-sponsored project, "Flammability Limits At Reduced-g Experiment (FLARE)." JAXA Principal Investigator (PI) is Prof. Osamu Fujita, Hokkiado University. COI Name (Institution): Grant/Contract No.: Internal Project | Space Biology Special Category: | None | | |
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| PI Address 2: MS 77-5, 21000 Brookpark Rd. PI Web Page: City: Cleveland State: OH Zip Code: 44135 Congressional District: 9 Comments: Project Type: FLIGHT,GROUND Solicitation / Funding Source: CIAXA) AO for Fundamental Research on an International Acceptance of CIAXA (CIAXA) AO for Fundamental Research on an International Space (CIAXA) AO for Fundamental Research on an International Space (CIAXA) AO for Fundamental Research on an International Space (CIAXA) AO for Fundamental Research on an International Space (CIAXA) AO for Fundamental Research on an International Space (CIAXA) AO for Fundamental Research on an International Research on An | Organization Name: | NASA Glenn Research Center | | |
| City: Cleveland State: OH Zip Code: 44135 Congressional District: 9 Comments: Project Type: FLIGHT,GROUND Solicitation / Funding Source: Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Standard of Fire Safety in Space (JAXA) AO for F | PI Address 1: | LTX, Combustion Physics and Reacting | g Systems Branch | |
| City: Cleveland State: OH Zip Code: 44135 Congressional District: 9 Comments: Project Type: FLIGHT,GROUND Solicitation / Funding Source: Research on an International Standard of Fire Safety in Space Agency (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) AO for Fundamental Research on International Standard of Fire Safety in Space (JAXA) An International Standard of Fire Safety in Space (JAXA) An International Standard of Fire Safety in Space (JAXA) An International Standard of Fire Safety in Space (JAXA) An International Standard of Fire Safety in Space (JAXA) An International Standard of Fire Safety in Space (| PI Address 2: | MS 77-5, 21000 Brookpark Rd. | | |
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| Project Type: FLIGHT,GROUND Solicitation / Funding Source CAXA) AO for Fundamental Research on an International Standard of Fire Safety in Space | Zip Code: | 44135 | Congressional District: | 9 |
| Project Type: Project Type: FLIGHT,GROUND Solicitation / Funding Source Search on an International Standard of Fire Safety in Space Start Date: 07/01/2014 End Date: 03/31/2024 | Comments: | | | |
| No. of Post Docs: 0 | Project Type: | FLIGHT,GROUND | Solicitation / Funding Source: | (JAXA) AO for Fundamental Research on an International Standard of Fire Safety in |
| No. of PhD Candidates: 0 | Start Date: | 07/01/2014 | End Date: | 03/31/2024 |
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| No. of Bachelor's Candidates: Urban, David Contact Phone: 216-433-2835 Contact Email: david.Lurban@nasa.gov Flight Program: ISS NOTE: End date changed to 3/31/2024 per PI (Ed., 10/29/21) NOTE: End date changed to 7/31/2022 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2021 per PI (Ed., 6/3/19) NOTE: Changed end date to 3/31/2021 per PI (Ed., 6/3/19) Dr. Sandra Olson is U.S. Co-Investigator on Japan Aerospace Exploration Agency (JAXA)-sponsored project, "Flammability Limits At Reduced-g Experiment (FLARE)." JAXA Principal Investigator (PI) is Prof. Osamu Fujita, Hokkaido University. COI Name (Institution): Grant/Contract No.: Internal Project Performance Goal No.: | No. of PhD Candidates: | 0 | No. of Master' Degrees: | 0 |
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| Contact Email: david.l.urban@nasa.gov | No. of Bachelor's Candidates: | 0 | Monitoring Center: | NASA GRC |
| Flight Program: ISS NOTE: End date changed to 3/31/2024 per PI (Ed., 10/29/21) NOTE: End date changed to 7/31/2022 per PI (Ed., 10/5/20) NOTE: Changed end date to 3/31/2021 per PI (Ed., 6/3/19) Dr. Sandra Olson is U.S. Co-Investigator on Japan Aerospace Exploration Agency (JAXA)-sponsored project, "Flammability Limits At Reduced-g Experiment (FLARE)." JAXA Principal Investigator (PI) is Prof. Osamu Fujita, Hokkaido University. COI Name (Institution): Grant/Contract No.: Internal Project | Contact Monitor: | Urban, David | Contact Phone: | 216-433-2835 |
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| Key Personnel Changes/Previous PI: "Flammability Limits At Reduced-g Experiment (FLARÉ)." JAXA Principal Investigator (PI) is Prof. Osamu Fujita, Hokkaido University. COI Name (Institution): Grant/Contract No.: Internal Project Performance Goal No.: | Flight Assignment: | NOTE: End date changed to 7/31/2022 per PI (Ed., 10/5/20) | | |
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| Performance Goal No.: | COI Name (Institution): | | | |
| | Grant/Contract No.: | Internal Project | | |
| Performance Goal Text: | Performance Goal No.: | | | |
| | Performance Goal Text: | | | |

Task Book Report Generated on: 05/01/2024

| To establish global standards for fire safety in space, we seek to develop a fundamental understanding of material flammability test, NASA-STD-6001.A Test 1, relates to the actual flammability of materials in n partial gravity. The investigation strategy is to perform extensive research via ground-based experiments, including 1g ar flight tests, and via theoretical formulations. Flight experiments on orbit in International Space Station (IS be performed to verify the correlation. The flight experiments on orbit are expected in 2018 or later. By the end of the project, a new fire safety standard test method for screening spacecraft materials will be addresses the shortcomings of existing standard test methods such as NASA-STD-6001B. | SS)/KIBO will | | | |
|--|--|--|--|--|
| Rationale for HRP Directed Research: | | | | |
| Studying materials flammability in space allows us to accurately control the flow field and thus elucidate of a critical Damkohler number (flow time /reaction time) on flame extinction. The anticipated improved should reduce time and cost for the spacecraft material screening. Investigation and results have Earth betterrestrial fire safety. | methodology | | | |
| A replacement central processing unit (CPU) and hard drive to replace the failed operating system were la 2022 and experiments were started in May 2022. Experiments continued until October 2022 when the har removed from the Multi-purpose Small Payload Rack (MSPR) rack for a brief hiatus while another exper installed in the rack. Experiments are expected to resume in 2023. Experiment 1-2 was conducted during the 2022 operations. NASA has received data from JAXA for analycollaboration with the JAXA Principal Investigator (PI) Torikai. A manuscript is being drafted of the paratest campaign collaboration. The 2022 annual international Flammability Limits At Reduced-g Experiment (FLARE) workshop, origin be held in Tsukuba, Japan, was held Sept. 6-8, 2022. [Ed. Note: see FY22 report for additional information workshop is scheduled for Sept. 2023 in Tsukuba, Japan. | dware was iment was ysis in abolic aircraft wally planned to | | | |
| Bibliography Type: Description: (Last Updated: 04/17/2024) | | | | |