

Clarification to NNH10CAO001K

Clarifications to NNH10CAO001K are contained in this file. However please note these do not change any of the requirements already contain with the existing BAA.

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- Open through December 31, 2011
- Submissions need to be email to jason.c.crusan@nasa.gov and marybeth.a.edeen@nasa.gov
- Intent of this announcement is to provide a way for the private researcher (commercial, university, non-profit, etc) to submit a proposal to help enable ISS as a National Lab by providing support equipment or services
 - Thrust Area 1 - Payload Integration and Operations Support Services
 - Advanced payload integration systems to enable utilization of ISS for a broad range of research and technology development
 - Emphasis on systems or processes that would enable new areas of research or production not currently available
 - Support services may include project-specific integration and operations support on an as needed basis in response to specific requirements as they emerge
 - Thrust Area 2 - Support Equipment and Instrumentation
 - Concepts that advance the capabilities of the ISS such as providing standard interfaces that simplify and enable multiple research areas
 - Expand the on orbit capabilities to allow for in-situ analysis and evaluation of payload results
 - Expand the on orbit capabilities to allow for more sophisticated operations or testbeds on board

Examples: Thrust Area 1

Payload Integration and Operations Support Services

- Advanced payload integration systems to enable utilization of ISS for a broad range of research and technology development
 - Proposals in this category are not specific to a single payload or type of payload but are systems that would benefit a very broad range of payloads
 - Examples
 - Commercial communications capability
 - Software interface to “translate” from ISS 1553 to commercial lab software systems
- Emphasis on systems or processes that would enable new areas of research or production not currently available
 - Proposals in this category could be hardware, software or processes that open up an area of research that is not available with the existing ISS capabilities
 - Examples
 - Protein crystal growth systems
 - Cellular/molecular biology hardware

- Delay tolerant network software
- Support services may include project-specific integration and operations support on an as needed basis in response to specific requirements as they emerge
 - This has been referred to as “on-call implementation partners”
 - These are organizations that can
 - Serve as the interface between the researcher and the payloads office
 - Translate ISS payloads process and data requirements to the research community
 - Translate the research requirements into the ISS data requirements
 - Serve as the advocate for the payload
 - Requested Proposal and Expected Contract Type for Implementation Partner Proposals
 - Requested Proposal
 - A proposal against this area of the BAA should contain the menu of services the implementation partner can provide (see next page for examples) and a cost for each service (can be subdivided into simple, average and complex for each service)
 - Expected Contract Type
 - Blank Purchasing Agreement (BPA) under the simplified acquisition process
 - One year contract with possible extensions to a maximum of 5 years
 - Companies will be able to update costs once per year to account for rate changes
 - BPAs will contain a “menu” of services available as well as the terms and conditions upon which NASA and the company have agreed (see examples on the next chart)
 - When NASA has need of the integration services, we will issue a Call Order to companies that meet the criteria for the specific integration services requested
 - Companies that are interested in bidding on the specific Call Order will provide a one-page bid back to NASA
 - Example Tasks for Implementation Partners
 - Provide any or all payload integration services listed:
 - Define requirements necessary to ensure translation of ground research to space flight
 - Perform ground testing necessary to ensure the flight hardware can meet the new research objectives
 - Evaluate options for hardware modifications to accommodate new research objectives
 - Modify existing hardware to accommodate new research objectives
 - Includes design, build and certification testing of modified hardware

- Perform verification for flight certification including acceptance, safety and interface requirements
- Provide mission management input and support including payload preparation, integration, safety, mission planning, and operations
- Conduct crew training
- Support NASA bench reviews
- Monitor and provide input as required for real-time payload operation
- Receive payload back at turnover from NASA and de-integrate as required for analysis
- Provide unique services based on hardware owned by the implementation partner (educational activities, cold stowage contingency capabilities, sample analysis services for other users, etc.)
- Other services not defined here (specify)

Examples: Thrust Area 2

Support Equipment and Instrumentation

- Concepts that advance the capabilities of the ISS such as providing standard interfaces that simplify and enable multiple research areas
 - Examples
 - NanoRacks
- Expand the on orbit capabilities to allow for in-situ analysis and evaluation of payload results
 - Examples
 - Upgrades to a system to expand its use like upgrades to light microscopy module for biological samples
 - Development of just about any instrumentation to put ground type analysis capability on orbit (keeping in mind reduced need for Crew interaction)
- Expand the on orbit capabilities to allow for more sophisticated operations or testbeds on board
 - Examples
 - Developing facility type test bed for materials, propulsion, power, high definition TV, sensors, or other research areas