

# 15C1C Accommodating Commercial Space Transportation into the NAS

## Description

Safely and efficiently integrate new types of operations, such as commercial space and unmanned aircraft, into the NAS and enable the benefits these operations will provide.

Special Designations: OSI, FAA Strategic Initiatives, STI

## Commentary (January 2015)

Accomplishments: Work has been initiated on the planned operational demonstration to be conducted at the Command Center before the end of FY15. Initial Network/Communication architecture and interface test have been scheduled. Hardware procurement is being finalized. Challenges: Ongoing work on launch and reentry missions, as well as work in developing letters of agreement and supporting licensing/permitting evaluations is necessary and competes for scarce resources. Next steps: Parallel efforts to finalize data set definition/ICD, systems engineering study, safety display definitions, and demo definition are underway. Full team technical interchange meeting held 1/21 - 1/22.

Accomplishments: Weekly tag-ups with primary contractor for space data integrator (SDI) -- Millenium Engineering and Integration (MEI). Completed trade study of hardware options based on functional and data flow needs. Updated baseline ICD. Challenges: Schedule for demo is extremely aggressive. Tracking date of proposed SpaceX reentry operation to serve as demo for FAA executives. Next steps: Initiate software development. Purchase SDI hardware.

Accomplishments: Conducted preparation activities for upcoming SpaceX CRS 5 reentry operation. Challenges: None. Next steps: Review updated Command Center procedures for pre-operational assessments and realtime support. Support development of Joint Space Operations Group procedures document.

## Commentary (December 2014)

Accomplishments: Work has been initiated on the planned operational demonstration to be conducted at the Command Center before the end of FY15. Network/Communication architecture and interfaces for data flow is completed. Challenges: Ongoing work on launch and reentry missions, as well as work in developing letters of agreement and supporting licensing/permitting evaluations is necessary and competes for scarce resources. Next steps: Parallel efforts to finalize details of the network/comm architecture, data set definition/ICD, systems engineering study, hardware trade study, safety display definitions, and demo definition are underway. Technical interchange meeting scheduled for 1/21 to include delivery of first 2 deliverables (systems engineering study and hardware trade study).

**Status Table (Calculated Rollup Metric)**

Period	Target	Actual	Status
10/2014	1	1	[Green]
11/2014	1	1	Green
12/2014	1	1	Green
01/2015	1	1	Green

✓ Indicates that the item is complete.