Report to COMSTAC of the Operations Working Group

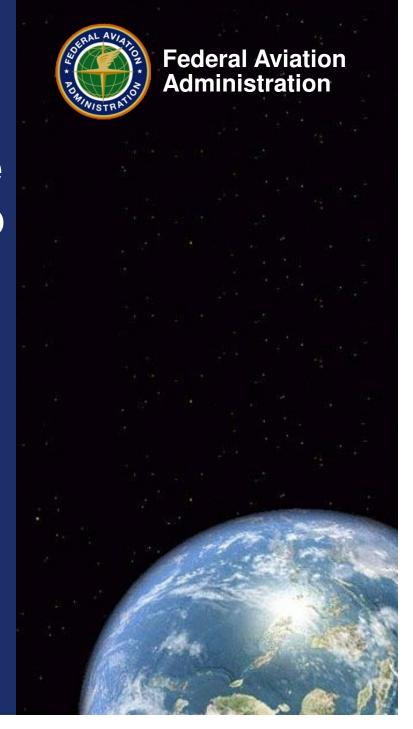
Presented to: COMSTAC

By: Janet Karika,

OWG Chair

Ray Johnson, OWG Deputy Chair

Date: September 17, 2014



OWG Agenda

Operations Working Group 3:00 p.m. – 5:00 p.m. Janet C. Karika, Chair

3:00 – 3:15	Introductions, Review of Previous OWG	Janet Karika, Chair
3:15 – 3:40	Air Force Current Launch Schedule Review Board (CLSRB) Overview	TSgt Wilson Lugo, HQ AFSPC
3:40 – 4:00	Proposed Spaceport Guide	Robert Consolo, ERAU
4:00 – 4:15	Recommended Practices for Human Spaceflight Occupant Safety	Mr. Randy Repcheck, FAA/AST
4:15 – 4:45	Proposed Initial Commercial Spaceflight Standards	Janet Karika, Chair
4:45 – 5:00	New Business, Wrap Up, OFRs	Janet Karika, Chair



Operations Working Group (OWG) Overview

Operations Working Group Charter

- Identifies key launch operations, support, and processing issues affecting U.S. commercial space competitiveness
- Supports accessibility of new commercial space ventures to launch sites and services
- Investigates options for commercialization/privatization of launch services, support, and facilities.

COMSTAC OWG members

Chair: Janet Karika, Vice Chair: Ray Johnson

Brett Alexander - Mike Gold

Christine Anderson - Jeff Greason - Michael Lopez-Alegria

– Mark Campbell - Livingston Holder - Russ McMurry

Dan Collins- Tim Hughes

– Patricia Cooper - Steve Isakowitz - Carl Rising

Pete Fahrenthold - Bill Khourie - Mark Sundahl

Oscar GarciaChris Kunstadter

Debra Facktor Lepore

- Charlie Precourt

- Will Trafton



Air Force Current Launch Schedule Review Board (CLSRB) Overview

Observation

- Current Air Force CLSRB process meets current Air Force Range needs
- The full potential commercial use of Air Force Ranges is unknown at this time

Finding

- Transparency into Air Force Range Scheduling is beneficial to both Government Agencies and Industry
- Future demand by both commercial and government launch customers on Air Force Ranges may present a challenge that will continue to be evaluated



Recommended Practices for Human Spaceflight Occupant Safety

Observations

FAA's response to COMSTAC collected comments has generated some questions

Recommendation

 FAA/AST and COMSTAC continue to work together to further define the recommended practices



Medical Issues for Commercial Suborbital Space Flight Crewmembers

Observation

Minimal suborbital flight operational experience above 100 km exists
 Finding

 Database needs to be expanded, medical evaluations and an independent data repository would be helpful

Recommendations

- FAA/AST should require an FAA First Class medical certificate for pilots with a well defined, documented, and communicated waiver process inherent to medical certification similar to past spaceflight experience. FAA/AST should begin the process of modifying the regulation.
- FAA/AST should periodically re-evaluate medical standards for flight critical crewmembers
- FAA/AST should advocate to the suborbital industry for investigation and documentation on the effects on flight critical crewmembers performance from effects of multiple suborbital flights
- FAA/AST should establish a non-attributable repository for flight critical crewmember medical data



Proposed Initial Commercial Spaceflight Standards

Observations

- Industry standards for commercial spaceflight are beneficial and needed
 - Congress and the FAA have stressed the need for the creation of industry standards
- Standards must be prioritized and an initial list created and submitted to establish the standards development process

Recommendation

- FAA/AST and industry via COMSTAC engage in on-going dialogue on development of human commercial spaceflight industry standards and establish the process through which a prioritized list of these standards will be ratified.
 - An initial list is attached. The COMSTAC will begin vetting the next list for submission via the newly formed Standards Working Group



Attachment 1 Proposed Initial Commercial Spaceflight Standards Submitted to the FAA by COMSTAC, 17 September 2014

- 1. Breathable Atmosphere
- 2. Crew-Imparted Loads
- 3. Hazardous Test Notification
- 4. Landing Gear
- 5. Occupant Restraints and Acceleration Support
- 6. Propellant Handling
- 7. Risk Communication

