

Cargo MPS Task Group

8/21/2019

10:00 AM

WEBEX

Type of meeting: Task Group Meeting

Note taker: Dhaval Dadia

Attendees: Dhaval Dadia, Stephen Happenny, Enzo Canari, George McEachen, Pat Baker, Karsten Kirbach, Rainer Beuermann, Terry Simpson, Ian Campbell, Calvin Ko, Sidney Teixeira, Samir Tambe.

Minutes

Agenda item: Meeting Minutes

Discussion:

The meeting minutes for this task group will be available on the Fire Safety Branch website at the link mentioned below.

<https://www.fire.tc.faa.gov/Systems/Cargo/TaskGroup>

Conclusions:

Have meeting minutes available on the Fire Safety Branch website.

Action items	Person responsible	Deadline
✓ Update Meeting Minutes	Dhaval Dadia	July 25, 2019

Agenda item: Next Meeting

Discussion:

Next meeting will be a Webex on Sept. 24-25, 2019. It will be hosted by Boeing at their Boeing Field facility.

Conclusions:

Setup next Webex meeting for Sept. 24-25, 2019

Action items	Person responsible	Deadline
✓ Prepare an agenda for the next meeting	Dhaval Dadia	Sept. 24, 2019

Agenda item: Agenda for the meeting

Discussion:

Test Method	Issue	Discussions	Status
Other Topics	Units of acceptance criteria	Perform action items for next meeting.	In Progress
	Toxicity	Perform action items for next meeting	In Progress
	Defining a baseline agent	Talk about issue	In Progress
	Temperature and Pressure Compensation for Agents	Talk about issue	New Topic

The items tabulated above were the topics of discussion at the meeting.

Conclusions:

Summary of the agenda items for the Webex meeting.

Action items	Person responsible	Deadline
✓ None	N/A	N/A

Agenda item: Defining a baseline agent

Discussion:

The following bullets summarize the discussions regarding this topic.

- How do the authorities accept MPS test data from test facilities other than FAA Tech Center and Boeing?
- Baseline agents or Halon simulants.
- Proposed ideas at the Cologne meeting
 - Nitrogen
 - Carbon di-oxide
 - HFC-125
 - SF6 (worst greenhouse gases, and banned for some uses in Europe)
 - Pan fire as a heat loss test
- How would the process work?
- Aerosol tests might be challenging for simulants
- Halon 1301 testing in Europe is not banned currently but could be in the future.
- 1st phase should be testing with Halon 1301
- Define more than amount of agent, distribution system,
- Step by step
 - Compartment design
 - Unsuppressed Fire tests (Value of it? - compare results to tests in Boeing facility and FAA Tech Center - shows role of oxygen starvation)
 - Testing with Halon - which tests should be conducted?
- Use of agent
- Periodic calibration of compartment after unsuppressed tests? How to conduct calibration/Possible characteristics that are used to define compliance
 - Run an inert agent test periodically
 - Air exchange rate
- Have to run full Halon 1301 MPS to establish equivalence to Halon

Conclusions:

Further discussions are necessary to move towards establishing a baseline agent.

Action items	Person responsible	Deadline
✓ Further discuss the criteria needed to establish a baseline agent.	Task Group	Sept. 18, 2019

Agenda item: Temperature and Pressure Compensation for Halon Replacement Agents

Discussion:

The following bullets summarize the discussions regarding this topic.

- Methodology used at the technical center has been to use the system as used during the concentration tests and ensure it performs similarly during the MPS tests.
- Another methodology used is to establish a target peak concentration and adjust the bottle fills according to the pressure and temperature conditions that affect the concentration of the agent.
- How do we specify this in the MPS document?
- Talk about it in Seattle.

Conclusions:

Further discuss this issue at the next meeting.

Action items

Person responsible

Deadline

✓ Further discuss this topic.

Task Group

Sept., 18, 2019

Appendix

Special notes: Raw information used during discussions