

Requirement ID: 216

Sponsor Organization: AFS

POC: Les Vipond

Requirement Title: Evaluation of Broadband Applications to Aircraft Maintenance Safety

Funded Requirement:

- FY01: No
- FY02: Yes
- FY03: Yes
- FY04: Yes

Requirement Statement: The application of broadband technologies has significant impact on maintenance practices and on the positive potential to safety. Broadband applications run the gamut from digital documentation to electronic signature. The emerging technologies include, but are not limited to: training-on-demand, video-on demand, wireless access to technical documentation and much more. This research shall review the emerging technologies to the extent to which such technologies are impacting safety. This research shall also determine the extent to which human-centered design contributes to the successful application of these broadband technologies.

Background: Identification of emerging broadband applications to maintenance. Identification of safety impact of broadband technology. Assessment of positive and potential negative impact of broadband applications for maintenance technicians. An understanding of the integration between training and job-aiding as broadband technology use in maintenance environments.

Output: Overview of the state-of-the-art of broadband applications to maintenance. Identification of safety impact broadband applications for maintenance technicians. An understanding of the integration between training and job-aiding as broadband technology using maintenance environments.

Regulatory Link: