

Requirement ID: 918

Sponsor Organization: AFS-300

POC: Les Vipond

Requirement Title: General Aviation Alaska Maintenance Accidents

Funded Requirement:

- FY02: Yes
- FY03: Yes
- FY04: No
- FY05: No

Requirement Statement: NTSB data and the generally high GA accident rate in Alaska indicate that this issue must be studied to determine if the overall accident rate can be reduced by reducing the maintenance error rate if maintenance issues are determined to be a significant issue in Alaska accidents.

Background: Determine the role of maintenance in the high general aviation (GA) accident and incident rate in Alaska. Review for the last 10 years NTSB and FAA GA accident and incident data for the entire country to determine the leading maintenance factors that contribute to GA accidents and incidents for aircraft operating both in Alaska and the rest of the country. Compare the Alaska data to the maintenance contribution accident data for the rest of the U.S. Using this data, determine if maintenance errors are a contributing factor or a direct causal factor to accidents to a greater degree in Alaska than in the rest of the country. If data indicates maintenance errors have a greater contribution to accidents in Alaska when compared to the rest of the U.S., determine the particulars. Error classification factors present in Alaska may include: 1)Extreme climates, 2)Limitations on Parts and equipment availability, 3)Aging aircraft fleet, 4)Severe operational demands, and 5)General lack of other maintenance resources.

Output: Research report, and documentation required to support development of advisory circulars or safety related training on CD or video to be used by the FAA Safety Program.

Regulatory Link: Parts 91, 43, 121, 135, 145