14C.132A4 Support accelerated maturation of CLEEN aircraft technologies through testing, demonstration and assessment, G06M.02-01

Description

This program supports sustaining our future with an outcome of the US aviation sector being a model for sustainable growth. Progress and success of this program will be measured against the performance metric to improve NAS-wide energy efficiency by at least 2% per year. This program supports accelerated maturation of CLEEN aircraft technologies through testing, demonstration and assessment. In addition, it focuses on exploration of energy efficient and environmentally favorable operational procedures. Both of these advances lead to improved energy efficiency which will be managed and tracked via the Environmental Management System. This program accelerates securing qualification of commercial alternative fuels through testing and demonstration as well as analysis of aviation environmental standards on NAS-wide operational environmental performance.

Special Designations: OSI

Commentary (March 2014)

PLA on Updated CLEEN Technology Assessment Report was submitted to NextGen office. Georgia Tech continued to work with Pratt & Whitney and Boeing to finalize EDS model enhancements to enable modelling of benefits of Boeing Ceramic Matrix Composite Nozzle and Pratt and Whintey ultra-high bypass (UHB) ratio, geared turbofan engine technologies. Georgia Tech and FAA continue to make progress on the fleet-wide assessment of CLEEN technolgies, over the past month GT and FAA continued to work to further define scenarios that will be used in the assessment.

Commentary (February 2014)

Georgia Tech continued to work with Pratt & Whitney and Boeing to finalize EDS model enhancements to enable modelling of benefits of Boeing Ceramic Matrix Composite Nozzle and Pratt and Whintey ultra-high bypass (UHB) ratio, geared turbofan engine technologies. Several technical interations and data exhanges between Georgia Tech and the companies occurred in January 2014. Discussions have begun between GA Tech and FAA on assumptions to be used in the fleet-wide assessment of CLEEN technolgies.

Status Table (Qualitative Metric)

Period	Actual
12/2013	Green
01/2014	Green
02/2014	Green

44

03/2014	Green

✓ Indicates that the item is complete.

45