

## Record of Environmental Consideration

### Description and location of proposed action: Integrated Intelligent Flight Deck

The simulation capabilities supporting the Integrated Intelligent Flight Deck (IIFD) project must be upgraded to match the emerging concepts of NextGen and simulations will be conducted of proposed system concepts based on IIFD research. State-of-the-art tools, methods, and techniques such as oculometers, Displays and Decision Support (DDS), *synthetic vision* systems, and enhanced vision systems to be used in the human-in-the-loop flight simulators are the primary focus of the Aviation Safety IIFD project in conducting NextGen research experiments. This proposal consists of multiple tasks that are essential for upgrading the current simulators to support the human-in-the-loop simulation experiments to meet NextGen Aviation Safety IIFD research goals and objectives. These tasks include oculometer technology assessment and preparatory work, NextGen DDS Evaluation, All-Weather Display Concepts Development, rapid prototyping laboratory support, and concept demonstrations.

Deliverables include reports, algorithms, and software.

The Project Manager is Jessica Nowinski (contact information not available). The POC is Victoria Chung at 757-864-6406.

**Categorical Exclusion:** It has been determined that the above action qualifies for Categorical Exclusion #3 under 14 CFR 1216.305(d), which describes NASA's criteria for determining if an environmental assessment under NEPA is needed. Specifically 14 CFR 1216.305(d)(3) provides for an exception for research and development activities in aeronautics.

**Determination:** This action is categorically exempt from further environmental assessment based on the information provided in the project description. If there are changes to the location and scope or other aspects of the project, then this document may be invalidated and the action may be reassessed.



PAMELA DAVIS

Langley Project Manager

Acting Associate Project Manager  
for Aviation Safety Project

5.05.10

Date



Langley Environmental Management Branch

4/30/10

Date