Implementation Plan for
Research Safety Enhancement 177
External Lighting

DRAFT

Statement of Work:

The purpose of this research project is for the NASA to sponsor research for developing enhanced aircraft lighting system that would increase the conspicuity of an aircraft during taxi, landing, and takeoff operations, especially when viewed from behind.

Lead Organization for Overall Project Coordination (LOOSEC): FAA Tech Center

Research Safety Enhancement 177 (RSE–177):

Sponsor research and development of an aircraft lighting system that would increase the conspicuity of an aircraft during taxi, landing, and takeoff operations, especially when viewed from behind.

Score: [*To be completed by JIMDAT.*]

Total Resource Requirements: [*To be completed by JIMDAT.*]

Completion Date: 60 months after CAST "G" level approval

Output 1:

Research to provide the basis for advanced aircraft lighting systems that will increase aircraft conspicuity.

Resources: NASA (LOOC)

Timeline: 60 months

Actions: Initiate research project and provide report to the CAST.

Performance Goals & Indicators for Safety Enhancement/Outputs:

Goal. Increase the conspicuity of an aircraft during ground taxi, landing, and takeoff operations, especially when viewed from behind.

Indicator. Reduced number of wrong runway departures where aircraft conspicuity is a contributing factor.