



# Technology & Development Status Report

## Aviation Program

### FY 2009



Date Last Edited: 12-13-2005

**PROJECT:** **Midair Collision Avoidance Training**      **CENTER:**      **SDTDC**

**Number:**    3E31P04      **PROGRAM LEADER:**      Carl Bambarger

**SPONSOR:**    WO-F&AM      **Project Leader:**      Ryan Becker

**Proposer:**    Tony Kern

### **PROJECT OBJECTIVES**

Trend analysis of Safe-Coms indicate that midair collision between aircraft is the number one safety hazard risk facing our helicopter and fixed wing fleet. Following the dual fatality mishap with two CDF airtankers last year, it becomes even more imperative that we develop training materials specifically for our fire fighting flight crews and dispatchers. The goal of our midair collision avoidance project is three fold:

Simplified Temporary Flight Restriction (TFR) procedures and better coordination with local airports and the FAA.

Better airspace management over large fires and on initial attack.

Improved awareness and see and avoid training for all participating pilots and dispatchers.

This proposal addresses one part, the third in the list above.

The objectives of this project will be:

Identification of high-risk scenarios for midair collision in the initial attack and large fire environments.

Development of video and printed training materials to mitigate the identified risks.

Development of training effectiveness assessment.

**Changes to objectives:**      The RAO/RASM committee tasked the training committee to develop training courses using the project materials as a starting point. SDTDC will support the development as the training committee requests.

### **SIGNIFICANT ACCOMPLISHMENTS**

- SDTDC developed eight PowerPoint-based modules on collision avoidance topics such as proper scanning technique, TCAS use, and controlling hazards, and demonstrated these, along with potential enhancements, such as integrated sound and Web-based quizzes, to the Regional Aviation Officer and Regional Aviation Safety Manager meeting in San Diego in October. The committee decided to task the training committee with actual module development.

**Output:**

**Planned:** Training Materials

Training Assessment

**Actual:** HTML-based CD containing eight PowerPoint presentations covering various topics of collision avoidance, with demonstrations of simple enhancements to expand the functionality.

---