

## Integrated Terminal Weather System (ITWS)

**PROGRAM/PROJECT:** Terminal Business Service [<http://www2.faa.gov/ats/atb/sectors/weather/ITWS/>]

**LEAD AGENCY/ COLLABORATING AGENCIES:** Federal Aviation Administration (FAA)

**LEAD AGENCY POINT OF CONTACT:** Kevin Young, AUA-460, 202-366-9207, kevin.young@faa.gov

**PROGRAM POINT OF CONTACT:** Dan Strawbridge, FAA/ATB-410, 202-267-7465, dan.strawbridge@faa.gov

### **SERVICE AREA(S)/INITIATIVE(S)**

- *National Aviation Weather Initiatives:*  
1: 8 2: 7 6: 1, 6, 11

### **FUNDING**

- *Programmed/Planned (\$'s/FY):* /FY04 /FY05

### **TYPE OF PROGRAM/APPLICATION**

Acquisition/Decision Support

### **SCOPE OF PROGRAM/PROJECT**

- *What's being developed, procured, etc.:* a safety and planning tool for terminal air traffic management personnel to obtain, process, and display current and predictive weather information (alphanumeric and graphical). Products generated by ITWS include windshear and microburst predictions, storm cell and lightning information, terminal area winds aloft, runway winds, and short term ceiling and visibility predictions.
- *How operations will be changed/improved:* the ITWS presents a graphic display of weather in the terminal area out to 200 miles for improved air traffic management decision making.

### **PROGRAM/PROJECT MANAGEMENT**

- *Basic guidance document for this program:* ITWS Acquisition Program Baseline (APB), Operational Requirements Document (ORD).
- *Program/Project verification process:* FAA Acquisition Management System (AMS).
- *Method used for end product validation:* Pre-recorded weather scenarios are run on the system. If the system output is what is expected, the system is certified.
- *Operational training for the user:* Air Traffic and Airway Facility training will be conducted before site acceptance.

### **SCHEDULE/IMPLEMENTATION**

- *Next major program milestone:* N/A
- *Program becomes operational:* ITWS is an operational system.
- *Plans for further product improvements:* P3I products planned to start in FY03 include: Dry Microburst and Sensor Data Quality Algorithms; NEXRAD Vertical Integrated Liquid water with large TRACON mosaic and NEXRAD open systems upgrades; Free Flight Phase II (FFP II) and Automation Systems Interfaces; Machine Intelligent Gust Front Algorithm (MIGFA) improvements; and Terminal Winds Forecast improvements.