

## Weather Systems Processor (WSP)

**PROGRAM/PROJECT:** Terminal Business Service

**LEAD AGENCY:** Federal Aviation Administration (FAA)

**LEAD AGENCY POC:** Dan Kinder, FAA-ATB-400, 202-267-7198, dan.kinder@faa.gov

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

### **SERVICE AREA/INITIATIVE**

- *National Aviation Weather Initiatives:*  
2: 5 6: 8

### **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 modification to the existing airport surveillance radar (ASR-9) adding a processor to detect hazardous weather conditions in the terminal area. The WSP is being fielded at 34 non-Terminal Doppler Weather Radar (TDWR) airports.
- *How operations will be changed/improved:* better detection of hazardous wind shear and microburst events near airport runways. The unit will also detect and predict the arrival of gust fronts and storm cells. This improved capability will enhance both air traffic safety and efficiency.

### **PROGRAM/PROJECT MANAGEMENT**

- *Basic guidance document for this program:* Federal Acquisition Management System Program/Project Management Plan for the Weather Systems Processor.
- *Program's verification process:* The WSP has been subjected to all of the normally required programmatic reviews, from development of the specification and statement of work to operational test and evaluation. The system was developed through a prototype development process for many years. During this developmental time, input from the operational users in the field was constantly evaluated and then incorporated into the system design.
- *Method used for end product validation:* As part of the National Aerospace System, the WSP will be routinely certified by FAA technicians.
- *Operational training for the user:* Training has been developed for WSP by the FAA Academy and is delivered on site by Academy instructors in a formal classroom environment.

### **SCHEDULE/IMPLEMENTATION**

- *Next major program milestone:* All systems commissioned by end of FY 04.
- *Program becomes operational:* WSP is an operational system.
- *Plans for further improvements:* N/A