

## Tactical Meteorological Observing System (TMOS)

### PROGRAM/PROJECT:

**LEAD AGENCY:** Headquarters United States Air Force, Directorate of Weather (HQ USAF/XOW)

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

- *National Aviation Weather Initiatives:*  
1: 5, 7    2: 5    6: 6

### FUNDING

- *Programmed/Planned (\$'s/FY):*                      /FY03                      /FY04

### TYPE OF PROGRAM/APPLICATION

Decision Support

### SCOPE OF PROGRAM/PROJECT

- *What's being developed, procured, etc.:* a suite of automated, tactical weather sensors to replace legacy systems. TMOS provides for the automated collection of weather elements in a deployed environment and formats aviation meteorological observations (METAR and SPECI) for manual or automatic transmission into the worldwide weather telecommunications network. Eighty-nine complete systems will be purchased to satisfy 100% of worldwide Air Force Weather requirements.
- *How operations will be changed/improved:* automated, scalable observations will improve support to tactical Air Force and Army operations.

### PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* Requirements for this program are documented in the Air Force TACMET Mod Technical Requirements Document (TRD) and Operational System-21 (OS-21) Operational Requirements Document.
- *Program's verification process:* Spiral development acquisition strategy, each spiral consists of a 12-month period when the government and contractor test against identified requirements. INCO has been completed and systems are currently being delivered.
- *Method used for end product validation:* OT&E completed Jun 99. Physical and functional configuration audits were accomplished in FY99 during the qualification testing.
- *Operational training for the user:* Both hands-on and text training materials are provided by the contractor to users to allow the government to make effective use of the system. Mobile training teams conducted training when the first systems were delivered in Sep 00.

### SCHEDULE/IMPLEMENTATION

- *Next major program milestone:* N/A
- *When program will become operational:* TMOS is an operational system.
- *Plans for further improvements:* Follow-on advanced development is anticipated as sensor improvements are realized and computer resources continue to improve. Follow-on improvements through technology refreshments and incremental technology insertions are planned through FY07.