

AN/FMQ-19 Automatic Meteorological Station (AMS)

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 4: 2 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.:* an automated observing system that samples, measures/calculates, and reports free air and dew point temperatures, wind speed and direction, lightning, thunderstorms, visibility, runway visual range, cloud base height and amount of coverage, pressure, liquid equivalent precipitation accumulation, type of precipitation, and ice accretion during freezing precipitation. The heart of the system is the Federal Standard Meteorological Algorithms used in the Automated Surface Observing System (ASOS) ensuring weather observations from AF bases and Army posts will be as representative as those at FAA and NWS ASOS locations.
- *How operations will be changed/improved:* automated observations at approximately 217 worldwide Air Force locations will contribute to improved aviation forecasts.

PROGRAM/PROJECT MANAGEMENT

- *Basic guidance document for this program:* Requirements for this program are documented in the Air Force Observing System 21st Century (OS-21) Operational Requirements Document (ORD)
- *Program's verification process:* Spiral development acquisition strategy where each spiral consists of a 12-month period at which time the government and contractor test against identified requirements. This program is currently undergoing source selection. Configuration and functional audits will be completed at Final Operational Capability (FOC)
- *Method used for end product validation:* System testing will be performed. The government shall perform a Functional Configuration Audit (FCA) on the system at McChord AFB to substantiate that the system, as installed, satisfies the functional requirements of the Technical Requirements Document (TRD). The government shall perform a Physical Configuration Audit (PCA) on the weather components installed at McChord AFB and Spangdahlem AB to establish a physical configuration baseline at each site.
- *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.

SCHEDULE/IMPLEMENTATION

- *Next major program milestone:*
- *Program becomes operational:* IOC expected by early in FY03.
- *Plans for further improvements:* Follow-on improvements through technology refreshments and incremental technology insertions are planned through FY09.