FAA Order 6000.15B

General Maintenance Handbook for Airways Facilities

61. REMOTE MAINTENANCE MONITORING (RMM).

a. These facilities are remotely controlled and monitored from other locations, such as FSS, ARTCC, MCC, and work centers. The monitor function may include a printer that provides a history of attended and unattended activities with the facility. A dial-up line may also be available for telephone interface with portable terminals, and allows restoration, certification, maintenance, and other activities to be performed from any location with a telephone line. Examples of RMM facilities are second-generation VORTAC and ASR-9.

b. The RMM facilities will use automated logging procedures when incorporated in the MMS. In the interim, multiple Facility Maintenance Logs, FAA Forms 60304, may need to be established to capture a complete history of events for the subject facilities. Logs may be established as outlined in subparagraphs (1) I (2), and (3) below. Events on the subject facility documented in one log need not be duplicated in another log. All events affecting the subject facility shall be documented in one of the designated logs, e.g., routine maintenance done at the facility will be documented in the facility log; activities done at a control point will be documented in the control point log.

(1) The facility site location.

(2) At the control and monitoring facility location(s). Where control and monitoring is shared by different locations, a log shall be established at each location. Local agreements shall be established to insure that the sector responsible for the facility has access to all historical data.

(3) Other locations as designated by the sector manager or designee. This designation shall be in writing.

C. Under unusual circumstances, RMM facilities may be accessed from locations that do not contain a designated log. In those circumstances, the individual accessing the facility will insure that the appropriate log entries are made in one of the logs for the accessed facility. The entries will need to be made via the delayed entry format, and the rule against delayed entry certification is waived in this case.

D. At RMM facilities that have a printer that provides a history of attended and unattended events, a copy of the printout shall be retained for 1 month or until the first-level supervisor's log review, whichever is later.

62. RESERVED.

FAA Inspection / Validation via RMM

- ***Continuously Monitored*** via Satellite and Internet Server
  - Altimeter Sensor Performance
    - Continuously Monitored for “Accuracy by Correlation”
    - Multiple sensor values and correlation monitored *hourly*
  - Visibility Sensor Performance
    - Sensor
      - Light Source Output *Calibration* - Measured *hourly*
      - Light Receiver Input *Calibration* – Measured *hourly*
    - Window Contamination / Automatic Compensation – Measured *hourly*
  - Radio Transmitter
    - Transmitted RF Power – Watts confirm RF carrier energy level - *daily*
    - Antenna Integrity – VSWR verifies antenna radiating - *daily*
    - Voice Modulation – RF carrier is being modulated by voice signal - *daily*

SuperAWOS Online 6030

Startup & Periodic Reports by RMM

Complete Information *Always Available*:

- Altimeter Sensors
  - **Individual Value and Correlation**
- Visibility Sensor
  - **Light Source, Sensor & Contamination**
- Transmitter & Antenna
  - **Complete Performance**

FACILITY MAINTENANCE LOG - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://www.superawos.com/facility_maintenance_log.htm

STATION SA-0004-17

FACILITY MAINTENANCE LOG PotomacAirfield

SUBJECT OF LOG KVKX SA41393008050004

MONTH AND YEAR Feb 2006 to Feb 2006

DATE	TIME	CODE	REMARKS	INIT -IALS
2/24/2006	11:13Z	58-3	RF Power 410 mw, 300-600mw = PASS	050004
2/24/2006	11:13Z	58-3	Percent Modulation = 95%, 65%-95% = PASS	050004
2/24/2006	11:13Z	58-3	RFI Noise = -108dbm, below -100dbm = PASS	050004
2/24/2006	11:13Z	58-3	Transceiver in Service	050004
2/24/2006	11:13Z	58-3	>> Diagnostic Performed - Advisory Sensors	050004
2/24/2006	11:13Z	58-3	Wind 360at 08KT	050004
2/24/2006	11:13Z	58-3	Wind Sensor in Service	050004
2/24/2006	11:13Z	58-3	Temperature 37F 3C	050004
2/24/2006	11:13Z	58-3	Temperature Sensor in Service	050004
2/24/2006	11:13Z	58-3	Humidity 40%	050004
2/24/2006	11:13Z	58-3	Humidity Sensor in Service	050004
2/24/2006	11:13Z	58-3	>> Diagnostic Performed - Altimeter	050004
2/24/2006	11:13Z	58-3	Altimeter 1 = 30.15 Adj for elev 0.037 InHg	050004
2/24/2006	11:13Z	58-3	Altimeter 2 = 30.14 Adj for elev 0.034 InHg	050004
2/24/2006	11:13Z	58-3	Altimeter Difference 8ft, < 40 feet = PASS	050004
2/24/2006	11:13Z	58-3	Altimeter in Service	050004
2/24/2006	11:13Z	58-3	>> Diagnostic Performed - Visibility Sensor	050004
2/24/2006	11:13Z	58-3	Sensor Windows are Clean = PASS	050004
2/24/2006	11:13Z	58-3	Day Night Sensor = 0, NIGHT = PASS	050004
2/24/2006	11:13Z	58-3	Infra Red Level = 100, >94 AND < 106 = PASS	050004
2/24/2006	11:13Z	58-3	IR Receiver Gain = 95, >79 AND <121 = PASS	050004
2/24/2006	11:13Z	58-3	Visibility 40.00 SM	050004
2/24/2006	11:13Z	58-3	Visibility Sensor in Service	050004

DATE	SIGNATURE OF SECTOR MANAGER / DESIGNEE	DATE	SIGNATURE OF MAINTENANCE TECHNICIAN

FAA FORM 6030-1 (10-70) FORMERLY FAA FORM 406C

Done Internet

Remote Maintenance Monitoring

Remote Commissioning

FAA Order 6000.15B

General Maintenance Handbook for Airways Facilities

REMOTE COMMISSIONING !

39. **AUTOMATED TECHNICAL PERFORMANCE RECORD**. With the advent of remote maintenance monitoring (RMM), certain facility performance and status data will be presented via an automated system. **Such data can provide an indication of facility performance and form the basis for facility certification**.

Remote Maintenance Monitoring

Automated Logging

FAA Order 6000.15B

General Maintenance Handbook for Airways Facilities

AUTOMATED LOGS !

63 b. Automated logs **will be established** at facilities where and when such capability exists. **Manual logging** at a facility **shall be discontinued** when an automated system is implemented.

63 c. Security in the automated system will be maintained through a layered access authorization requiring password entry to system functions. Authorized users will be granted general autolog access to the system as a whole and a specific certification access according to requirements and qualifications. The user's password is required as authenticating identification with each log entry. Access to other subsystems such as security, data base maintenance, and high-level report functions will be granted in accordance with the needs and responsibilities of the individual users.