BY ORDER OF THE COMMANDER
AIR MOBILITY COMMAND

AIR MOBILITY COMMAND
INSTRUCTION 33-116

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Communications and Information

AMC AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS) REPORTING

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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The purpose of this instruction is to set the standard for reporting the operational status of Air Mobility Command (AMC) Air Traffic Control and Landing Systems (ATCALS), which includes RADAR Systems, Airfield/Navigational Aid Systems, Weather Systems, and Airfield Communications Systems. This instruction supersedes all other polices of the same subject and is in effect until superseded by an AMC Supplement to AFI 21-116, *Maintenance Management of Communications-Electronics*. Reporting procedures below do not replace equipment status reporting under the equipment status reporting subsystem, Integrated Maintenance Data System (IMDS) (replaced Core Automated Maintenance System) or operation reporting under AFMAN 10-206, *Operational Reporting*.

Ensure that all records created as a result of processes prescribed in this publication are maintained in accordance with AFMAN 33-363, *Management of Records*, and disposed of in accordance with the Air Force Records Disposition Schedule (RDS) located at **https://afrims.amc.af.mil/**.

Refer recommended changes and questions about this publication to the Office of Primary Responsibility (OPR) AMC M/ACCC at DSN 576-1332, Commercial at 618-256-1332 or email at **amc.maccnosc@amcscott.af.mil** or by using the AF IMT 847, *Recommendation for Change of Publication*; route AF IMT 847s from the field through the appropriate functional chain of command.

1. Reportable ATCALS.

1.1. RADAR Systems

1.1.1. Air Traffic Control Radar Beacon System (ATCRBS)

1.1.1.1. Programmable Indicator Data Processor

1.1.1.2. Indicator OD-153

1.1.2. Digital Bright Radar Indicator Tower Equipment (DBRITE)

1.1.3. Airport Surveillance Radar (ASR)

1.1.4. Digital Airport Surveillance Radar (DASR)

1.1.5. Video Map Generator

1.1.6. Standard Terminal Automation Replacement System (STARS) and Monitors

1.1.7. Mobile Airport Surveillance Radar (ASR) / Precision Approach Radar (PAR)

1.2. Navigational Aids

1.2.1. Very High Frequency Omni-directional Range / Tactical Air Navigation (VORTAC)

1.2.2. Very High Frequency Omni-directional Range (VOR)

1.2.3. Tactical Air Navigation (TACAN)

1.2.4. Mobile Very High Frequency Omni-directional Range/Tactical Air Navigation (MVORTAC)

1.2.5. Instrument Landing System (ILS)

1.2.5.1. Localizer (LOC)

1.2.5.2. Glide Slope (G/S)

1.2.5.3. Marker Beacon (MB)

1.2.6. Mobile Microwave Landing System (MMLS)

1.2.7. Non-Directional Beacon (NDB)

1.3. Weather Systems

1.3.1. Runway Visual Range (RVR) Set

1.3.2. Runway Visual Range (RVR) System

1.3.3. Automatic Meteorological Station (AMS)

1.3.4. Next-Generation Radar (NEXRAD)

1.4. Communications

1.4.1. Enhanced Terminal Voice Switch (ETVS)

1.4.1.1. Request Acknowledge Unit (RAU)

1.4.1.2. Single Button Crash Alarm (SBCA)

1.4.2. Voice Recorders

1.4.2.1. Digital Voice Recording System (DVRS)

1.4.2.2. Digital Voice Recorder 2 (DVR2)

1.4.3. Transmitter Site

1.4.3.1. Very High Frequency (VHF) Transmitter

1.4.3.2. Ultra High Frequency (UHF) Transmitter

1.4.3.3. Very High Frequency (VHF) Transceiver

1.4.3.4. Ultra High Frequency (UHF) Transceiver

1.4.4. Receiver Site

1.4.4.1. Very High Frequency (VHF) Receiver

1.4.4.2. Ultra High Frequency (UHF) Receiver

1.4.4.3. Very High Frequency (VHF) Transceiver

1.4.4.4. Ultra High Frequency (UHF) Transceiver

1.4.5. Ground to Air Transmitter Receiver (GATR) Site

1.4.5.1. Consists all the equipment at a Transmitter and Receiver Site

2. Responsibilities.

2.1. AMC Base responsibilities

2.1.1. When any of the aforementioned systems fail (RED - Not Usable status) or go in a partially capable operational status (AMBER - Degraded status), the maintenance operations center/communications focal point will provide equipment status to the AMC MAJCOM/Air Force Communication Coordination Center (M/ACCC). Initial notification will be via telephone or email in accordance with the timing criteria detailed in **Attachment 2**. Use the AMC ATCALS Worksheet at **Attachment 3** as a base-level tool to ensure necessary information is gathered prior to notifying the AMC M/ACCC.

2.1.1.1. To contact the AMC M/ACCC, call DSN 576-1332/commercial 618-256-1332 for unclassified reporting or contact the AMC M/ACCC STE at DSN 576-8007/commercial 618-256-8007 for classified reporting.

2.1.1.2. Email: An email shall be sent to the AMC M/ACCC organization box on SIPRNET to **amc.maccc@amc.smil.af.mil**.

2.1.1.2.1. The email subject line will be the base name followed by the system in question followed by a description of the outage (or incident/degradation/conflict, etc.). Example: “Scott ILS Degradation”.

2.1.1.2.2. Classification. An ATCALS outage is normally unclassified; however, an outage becomes classified by association of stated mission impact, classified location, or other user-specified classified information. All email messages must comply with DODI 5200.1-R, *Information Security Program*, AFI 31-401, *Information Security Program Management*, and SAF Memo, dated 30 May 2006, Subject: Implementation of New Classification Marking Requirements. The message editor will ensure that the document has proper classification markings.

2.1.2. After exhausting organic capability to resolve an issue, units should request special maintenance team (SMT) assistance from AMC/A6OS (ATCALS Branch). To do so, contact AMC M/ACCC via aforementioned phone number/email address, 24x7. The AMC M/ACCC will route/track requested SMT action to AMC/A6OS.

2.1.3. Units will fill out a Significant Outage Report (**Attachment 4**) and send to AMC M/ACCC via SIPR email (**amc.maccc@amc.af.smil.mil**) by local COB every duty day. This is an overall big picture of a base's ATCALS status; therefore, the information provided in this report should contain any fix actions for incidents that closed throughout the previous 24 hours, and the real-time status of any open tickets with detailed notes of the last 24 hours' progress.

2.2. AMC M/ACCC responsibilities

2.2.1. When the AMC M/ACCC receives an initial outage or degradation report and/or a Significant Outage Report from the bases, the AMC M/ACCC will forward these to AMC/A6OS and AMC/A3AR.

2.2.2. The AMC M/ACCC will maintain situational awareness and report the status of AMC base ATCALS to the AMC/A6 and the 375 CG/CC.

2.2.3. The AMC M/ACCC will coordinate any discrepancies between the AMC ATCALS Worksheets and the Significant Outage Report each day. Any newly opened incident requiring an AMC ATCALS Worksheet should be contained as a current outage or closed outage in the daily Significant Outage Report.

2.3. AMC/A6OS responsibilities:

2.3.1. The A6OS will assist bases with ATCALS repairs when needed by means of special maintenance teams or other resources at their disposal.

2.3.2. The A6OS will provide assistance to the AMC M/ACCC in the event that clarification is necessary for any outages or degradations.

BRADLEY K. ASHLEY, Colonel, USAF
Director of Communications and Chief Information Officer

Attachment 1

GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION

References

AFI 31-401, *Information Security Program Management*

AFI 10-206, *Operational Reporting*

AFMAN 33-363, *Management of Records*

DODI 5200.1-R, *Information Security Program*

Abbreviations and Acronyms

AMS—Automatic Meteorological Station

ASR—Airport Surveillance Radar

ATCALS—Air Traffic Control And Landing Systems

ATCRBS—Air Traffic Control Radar Beacon System

CAMS—Core Automated Maintenance System

DASR—Digital Airport Surveillance Radar

DBRITE—Digital Bright Radar Indicator Tower Equipment

DVR2—Digital Voice Recorder 2

DVRS—Digital Voice Recording System

ETVS—Enhanced Terminal Voice Switch

GATR—Ground to Air Transmitter Receiver

G/S—Glide Slope

ILS—Instrument Landing System

IMDS—Integrated Maintenance Data System

LOC—Localizer

M/ACCC—MAJCOM/Air Force Forces Communication Coordination Center

MB—Marker Beacon

MMLS—Mobile Microwave Landing System

MVORTAC—Mobile Very High Frequency Omni-directional Range / Tactical Air Navigation

NDB—Non-Directional Beacon

NEXRAD—Next Generation Radar

OPR—Office of Primary Responsibility

RAU—Request Acknowledge Unit

RDS—Records Disposition Schedule

RVR—Runway Visual Range

SBCA—Single Button Crash Alarm

STARS—Standard Terminal Automation Replacement System

TACAN—Tactical Air Navigation

UHF—Ultra High Frequency

VHF—Very High Frequency

VOR—Very High Frequency Omni-directional Range

VORTAC—Very High Frequency Omni-directional Range / Tactical Air Navigation

Attachment 2

AMC ATCALS REPORTING CRITERIA

AMC ATCALS Reporting Criteria

Item Number	Equipment	Acronym	Designator	RED Outage Report Within:	AMBER Outage Report Within:
01	**RADAR Systems**				
02	Air Traffic Control Radar Beacon System	ATCRBS	AN/TPX-42	1 Hour	2 Hours
03	- Programmable Indicator Data Processor	PIDP	-	1 Hour	2 Hours
04	- Digital Bright Radar Indicator Tower Equipment	DBRITE	AN/GPN-133	1 Hour	2 Hours
05	- Indicator	Display	OD-153	1 Hour	2 Hours
06	Airport Surveillance Radar	ASR	AN/GPN-20	1 Hour	2 Hours
07	Video Map Generator	-	AN/GPN-134	1 Hour	2 Hours
08	Digital Airport Surveillance Radar	DASR	AN/GPN-30	1 Hour	2 Hours
09	Standard Terminal Automation Replacement System	STARS	AN/FSQ-204	1 Hour	2 Hours
10	- Indicator/Display	-	-	1 Hour	2 Hours
11	Mobile Airport Surveillance Radar / Precision Approach Radar	ASR/PAR	AN/MPN-25	1 Hour	2 Hours
12	**Navigational Aids**				
13	Very High Frequency Omni-directional Range / Tactical Air Navigation	VORTAC	AN/FRN-43	1 Hour	2 Hours
14	Very High Frequency Omni-directional Range	VOR	AN/FRN-44	1 Hour	2 Hours
15	Tactical Air Navigation	TACAN	AN/FRN-45	1 Hour	2 Hours
16	Mobile Very High Frequency Omni-directional Range / Tactical Air Navigation	MVORTAC	AN/MRN-23	1 Hour	2 Hours
17	Instrument Landing System	ILS	AN/GRN-29	1 Hour	2 Hours
18	- Localizer	LOC	AN/GRN-30	1 Hour	2 Hours
19	- Glide Slope	G/S	AN/GRN-31	1 Hour	2 Hours
20	- Marker Beacon	MB	AN/GRN-32	1 Hour	2 Hours
21	Mobile Microwave Landing System	MMLS	AN/TRN-45	1 Hour	2 Hours
22	Non-Directional Beacon	NDB	Nautel-200	1 Hour	2 Hours
23	**Weather Systems**				
24	Runway Visual Range Set	-	AN/FMN-1A	1 Hour	2 Hours
25	Runway Visual Range System	-	RVR-400	1 Hour	2 Hours
26	Automatic Meteorological Station	-	AN/FMQ-19	1 Hour	2 Hours
27	Next Generation Radar	NEXRAD		1 Hour	2 Hours
28	**Communications**				
29	Enhanced Terminal Voice Switch	ETVS	AN/FSC-127	1 Hour	2 Hours
30	- Request Acknowledge Unit	RAU	-	1 Hour	2 Hours
31	- Single Button Crash Alarm	SBCA	-	1 Hour	2 Hours
32	Digital Voice Recording System	DVRS	AN/GSH-72	1 Hour	2 Hours
33	Digital Voice Recorder 2	DVR2	-	1 Hour	2 Hours
34	Transmitter Site	TX Site	-	See item 46	See item 46
35	- Very High Frequency (VHF) Transmitter	-	AN/GRT-21	See item 46	See item 46
36	- Ultra High Frequency (UHF) Transmitter	-	AN/GRT-22	See item 46	See item 46
37	- Very High Frequency (VHF) Multi-channel Transceiver	-	AN/GRC-211	See item 46	See item 46
38	- Ultra High Frequency (UHF) Multi-channel Transceiver	-	AN/GRC-171	See item 46	See item 46
39	Receiver Site	RX Site	-	See item 46	See item 46
40	- Very High Frequency (VHF) Receiver	-	AN/GRR-23	See item 46	See item 46
41	- Ultra High Frequency (UHF) Receiver	-	AN/GRR-24	See item 46	See item 46
42	- Very High Frequency (VHF) Transceiver	-	AN/GRC-211	See item 46	See item 46
43	- Ultra High Frequency (UHF) Transceiver	-	AN/GRC-171	See item 46	See item 46
44	Ground Air Transmitter Receiver Site	GATR Site	-	See item 46	See item 46
45	- Consists of all the equipment at a Transmitter and Receiver Site	-	-	See item 46	See item 46
46	**ATCALS Sites**				
47	Report ONLY if a power or communications (copper/fiber) cable is cut or other disaster which causes the loss of all or part (RED/AMBER) of an ATCALS site or any of the following equipment: ILS, VOR, TACAN, VORTAC, ASR, DASR, FMQ-19, TX Site, RX Site, GATR Site, ATC Tower, and RAPCON	-	-	1 Hour	2 Hours

Attachment 3

AMC ATCALS WORKSHEET

Base: _____ **Unit:** _____

System: _____ **Runway Affected:** _____

Outage Occurred Date: _____ **Time:** _____

Returned to Service Date: _____ **Time:** _____

Equipment Status: (*check one)*

☐ **RED – Not Usable** ☐ **AMBER – Degraded** ☐ **GREEN – No Limitations**

Mission Impact: *(check one)*

☐ **RED – Mission Stopped** ☐ **AMBER – Mission Limited** ☐ **GREEN – No Limitations**

Maintenance: *(check one)* ☐ **In Progress** ☐ **Deferred**

If deferred, why:

Problem:

Action Taken:

Part(s) Ordered:

Notes:

Attachment 4

SIGNIFICANT OUTAGE REPORT

_____ Communications Squadron Maintenance Operations Control Center Significant Outage Report Date: _____ **Please send to AMC M/ACCC, COB every business day.** SIPR: amc.maccc@amc.af.smil.mil, STE: 576-8007, NIPR: amc.maccc@amc.af.mil, DSN: 576-1332			
Current Significant Communications Systems Status			
Equipment	**Status**	**Ticket #**	**Mission Impact**
Voice			
Defense Switched Network (DSN)	⇧ = Operational		
Defense Red Switch Network (DRSN)	⇧ = Operational		
Joint World Wide Communications and Information Systems	⇧ = Operational		
NSA Gray Phone	⇧ = Operational		
AMC Black Switch	⇧ = Operational		
METNAV			
# ILS (Localizer/Glideslope)	⇧ = Operational		
# ILS (Localizer/Glideslope)	⇧ = Operational		
TACAN	⇧ = Operational		
ASR	⇧ = Operational		
Weather	⇧ = Operational		
Ground Radio Systems			
ATC Radio Systems	⇧ = Operational		
ETVS	⇧ = Operational		
Giant Voice	⇧ = Operational		
Land Mobile Radio (LMR)	⇧ = Operational		
Base Paging System	⇧ = Operational		
Video Systems			
Video Tele-Conferencing	⇧ = Operational		
Cable			
Communication Cable Systems	⇧ = Operational		
Legend:	⇧ = Operational	⇩ = Not Operational	⇔ = Limited/Impacted

Ticket #:
System Affected:
Problem/Description:
Alternate Capability:
Opened:
Closed: