ORDER DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

7900.2A

6/12/78

478

SUBJ: REPORTING OF ELECTRONIC NAVIGATION AIDS AND COMMUNICATION FACILITIES DATA TO THE NATIONAL FLIGHT DATA CENTER

1. PURPOSE. This order refines established procedures and responsibilities for reporting flight data concerning electronic navigation aids (NAVAID) and communication facilities to the National Flight Data Center (NFDC). These include those under the control of the Federal Aviation Administration (FAA), nonfederal NAVAID and communication facilities (whether or not in the common system), military NAVAID and communication facilities in the common system. This data is required for operational use of the airspace on a consistent and timely basis.

2. DISTRIBUTION. This order is distributed to Washington branch level to the office of Airports Programs; Air Traffic, Flight Standards and Airway Facilities Services in Washington and regional headquarters; Flight Standards National Field Office and to all field offices and facilities.

3. CANCELLATION. Order 7900.2 is cancelled.

4. BACKGROUND. NFDC, AAT-430, has been designated as the central source within FAA to collect, validate, and disseminate operational flight data on the total National Airspace System (NAS). As such, it serves as the single government source for dissemination of flight information to civil and government producers of aeronautical charts, and related publications. It also provides centralized support concerning FAA electronic navigation aids and communication facilities to FAA defense readiness, and to the Defense Civil Preparedness Agency for emergency preparedness plans. Since charts and publications are compiled and issued on a scheduled cycle, it is not possible for them to depict the current condition of the system. To fill this gap, the Notice to Airmen System (NOTAM) keeps the users of the NAS continuously advised of the differences between the published, and the actual condition of the system. The requirements contained in this order do not alter the reporting requirements specified in the National Notice to Airmen System, 7930.2.

5. NAVIGATION AIDS AND FACILITIES CHANGE DATA (RIS: AT 7900.4).

a. Establishment of New Facilities. Each region shall notify NFDC of the establishment of a new facility 90 calendar days prior to the anticipated commissioning date. Notification shall be made by memorandum listing facilities, location identifiers, name, state, facility type, and as much other data as specified in paragraph d. (1) which is available.

Distribution: WRAT/FS/AF-3; WAP-3; RAS-3; AFS-500 (5); FOF-0 (normal)

Initiated By: AAT-430

Thereafter, NFDC should be notified immediately of any change or delay in the commissioning date. As far in advance as possible of the actual commissioning date, NFDC shall be notified by administrative message confirming the commissioning date. The message shall also advise of any change to previously reported data, and shall supply all other available information to complete the facility data record.

b. Scheduled Facility Changes. Regional directors are responsible to assure that NFDC is notified of scheduled facility changes no less than 45 calendar days (90 calendar days for relocation of NAVAIDs) prior to the effective date. Notification shall be made by memorandum indicating the facility location identifier, name, state, facility type, and a listing of scheduled changes including the effective date. Change reports shall include the old data, for example: "Change _____ to _____." NFDC shall assume that changes are made on the scheduled date unless otherwise notified by administrative message.

c. Operational Facility Changes. Regional directors are responsible to assure that NFDC is immediately notified by administrative message of any unscheduled operational facility changes. The message shall list the facility location identifier, name, state, facility type, and the information, for example: "Change _____ to _____"; "Shutdown for (reason) from _____ until approximately (date); and so forth".

d. Submission of the Report. All data to be published or charted shall be submitted directly to the NFDC. New data and changes to flight information that can meet publication and charting dates should not be issued as NOTAMs. The subject of the memorandum notifications prescribed above shall be: "Navigation Aids and Facility Change Data (RIS: AT 7900-4), (Facility name and type)", and shall be submitted in the following format:

(1) Navigation Aids (VOR, VORTAC, TACAN, NDB, VOT, FM, and so forth).

(a) State.

(b) City.

(c) Name.

(d) Voice Call (FSS Call).

(e) Location Identifier.

(f) Automatic voice identification availability.

(g) Type (VOR, VORTAC, TACAN, NDB, VOR/DME, VOT, and so forth).

(h) Latitude and longitude.

(i) Owner and operator.

(j) Class (should include scheduled weather broadcast, voice, simultaneous voice (LF facilities), Z marker, transcribed weather broadcast, power class (LF facilities), and so forth.

(k) Frequency and channel.

(l) Controlling or associated FSS/IFSS.

(m) Monitoring category.

(n) Common system (non-FAA facilities).

(o) Approved for IFR use.

(p) Public or restricted use facility .

(q) Elevation (ground elevation).

(r) Magnetic variation (nearest degree and epoch year).

(s) Service volume for VOR, TACAN, VORTAC (L, H, T).

(t) Hours of operation (if other than 24 hours).

(u) Commissioning date.

(v) Fan marker major axis (true bearing).

(w) Fan marker shape.

(x) Fan marker identification (transmitted).

(y) Engineering drawings (plot plan - three copies).

(z) Bearing and distance to nearest airport (degrees, nautical miles and airport name).

(aa) Restrictions (indicate whether temporary or permanent).

(bb) Status.

(2) INSTRUMENT LANDING SYSTEMS (ILS, SDF, MLS, ISMLS, and LDA).

(a) State.

(b) City.

(c) Airport.

(d) Category of operation (I, II, or III).

(e) Associated runway.

(f) Approach Bearing (degrees magnetic).

(g) Magnetic variation (nearest degree and epoch year).

(h) Engineering drawing, general plan of airport, and when available, contour of ILS runway centerline extended (three copies).

(i) Localizer.

1 Latitude and longitude of antenna.

2 Antenna type.

3 Distance from stop end of runway to antenna (feet from end of pavement), or

4 Distance from approach end of runway to antenna (feet from end of pavement).

5 Distance and direction from runway centerline (feet left or right).

6 Ground elevation at center of antenna array.

7 Identifier.

8 Frequency.

9 Voice availability (ATIS, Approach Control, and so forth).

10 Course width (degrees to closest hundredth).

11 Course width over threshold (feet).

12 Back course status.

13 Restrictions.

14 Remote monitored (yes or no), and location of monitor.

15 Commissioning date.

16 Engineering drawings (plot plan - three copies).

(j) Glide Slope.

1 Latitude and longitude of antenna.

2 Ground elevation of antenna mast.

3 Elevation of runway centerline abeam glide slope antenna.

4 Frequency.

5 Type of facility (Null ref, sideband ref, capture effect, or wave guide).

6 Distance of antenna from approach end of runway (feet from end of pavement).

7 Distance and direction from runway centerline (feet left or right).

8 Glide angle (degrees to closest hundredth).

9 Restrictions.

10 Remote monitor (yes or no), and location of monitor.

11 Commissioning date (of other than localizer).

12 Engineering drawings (plot plan three copies).

(k) Distance measuring equipment.

1 Location (localizer or glide slope site, latitude and longitude if neither).

2 Channel.

3 Distance from approach end of runway to antenna (feet from end of pavement).

4 Distance and direction from runway centerline (feet left or right).

(l) Inner marker/compass locator, middle marker/compass locator and outer marker/compass locator.

1 Latitude and longitude of antenna (marker).

2 Ground elevation of antenna (marker-nearest foot).

3 Distance from physical end of runway (marker-nearest foot).

4 Distance from runway centerline extended (nearest foot left or right).

5 Identifier (compass locator).

6 Frequency (compass locator).

7 Latitude and longitude of compass locator if not at marker site.

8 Voice availability (compass locator).

9 Voice used for approach control.

10 Locator classification (IMM, LOM, SLMM, SLOM or NDB).

11 Engineering drawings (plot plan - three copies).

12 Remote monitor (yes or no) and location of monitor.

13 Commissioning date.

14 Name of compass locator or marker.

(m) Precision Approach Radar Touchdown Points.

1 Latitude and longitude of antenna.

2 Approach bearing (degrees magnetic).

3 Associated Runway.

4 Glide angle (degrees to closest hundredth).

5 Touchdown point from approach end of runway (feet from end of pavement).

6 Commissioning date.

(3) FLIGHT SERVICE STATION.

(a) State.

(b) City.

(c) Airport name.

(d) Frequencies - all bands (LF, VHF, UHF).

(e) Latitude and longitude of Flight Service Station.

(f) Controlled or associated facilities, for example:

1 LRCO, RCO, SFO, and SSFO.

a. City.

b. State.

c. Frequencies.

d. Location if other than VOR (latitude and longitude).

2 Navigation Aids.

3 Flight Service Facilities.

(g) Services, for example:

1 Airport Advisory.

2 Direction finding (VHF or Doppler) including latitude and longitude of antenna.

3 Lake Reporting.

4 Island Reporting.

5 Swamp Reporting.

6 Mountain Reporting.

7 Flight Watch (locations).

8 Transcribed Weather Broadcast (TWEB).

9 Pilots Automatic Telephone Weather Answering Services (PATWAS).

(h) Hours of operation in local time if other than 24 hours, and responsible FSS when hours less than 24.

(i) Hours weather observations are available in local time.

(j) Status.

(k) Effective date of change.

(4) CONTROL TOWER, CERAP, RAPCON, RATCF, AND TRACON

(a) State.

(b) City.

(c) Airport.

(d) Owner and operator.

(e) Approach control and departure control.

1 Call.

2 Primary LF, VHF, and UHF frequencies.

3 Secondary LF, VHF, and UHF frequencies (if any of the above frequencies are sectorized, indicate by outbound magnetic bearings from the controlling airport).

4 Initial call frequencies (Initial Contact).

5 Emergency VHF and UHF frequencies.

6 Hours of operation in local time if other than 24 hours.

7 Radar or nonradar and location of ASR antenna (latitude and longitude).

8 Type of radar (ASR-6, ASR-8, and so forth).

9 Hours of operation of radar.

10 Services provided by master airport (Stage I, II, or III).

11 Satellite airports and type of radar service provided:

a. Frequencies.

b. Airports served.

c. Services provided to Satellite airports (Stage I, II, and so forth).

12 Satellite airports serviced by nonradar approach/departure control (VFR advisory service).

a. Frequencies.

b. Airports served.

13 Proposed commissioning date.

(f) Local Control.

1 Call.

2 Primary LF, VHF and UHF Frequencies.

3 Secondary LF, VHF and UHF Frequencies.

4 Initial call frequencies (Initial Contact).

5 Hours of operation in local time if other than 24 hours.

6 Proposed commissioning date.

(g) Ground Control.

1 Primary VHF and UHF Frequencies.

2 Secondary VHF and UHF Frequencies.

(h) Clearance Delivery.

1 Primary VHF and UHF Frequencies.

2 Secondary VHF and UHF Frequencies.

(i) Radar frequencies.

(j) Secondary radar availability.

(k) Direction finding (VHF or Doppler) including latitude and longitude of antenna.

(l) Limited Aviation Weather Reporting Service (LAWRS).

(m) Automatic Terminal Information Service (ATIS).

1 Proposed commissioning date.

2 ATIS frequency.

3 Information broadcast (arrival and/or departure information).

4 Hours of operation in local time if other than 24 hours.

5 Any change in status of scheduled weather broadcasts as a result of ATIS.

(n) Minimum Safe Altitude Warning (MSAW).

(o) Other services provided.

(5) AIR ROUTE TRAFFIC CONTROL CENTERS.

(a) Center.

(b) Frequency.

1 Usage.

a. Altitude (low or high).

b. Oceanic control.

c. STAR.

d. SID.

e. SIAP.

f. Approach control and airports served.

g. Other special use (discrete).

2 RCAG site name.

a. Latitude.

b. Longitude.

3 BUEC.

a. Latitude.

b. Longitude.

c. Altitude (high or low).

(c) Radar site name.

1 Latitude.

2 Longitude.

3 Secondary radar.

(d) ARTCC latitude and longitude.

1 Antenna site.

2 Center building.

(e) Frequencies at center site.

(f) Other services.

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