

## Appendix H. FAA Approved Systems for Non-federal Use

You may contact [Non-Federal-Program@faa.gov](mailto:Non-Federal-Program@faa.gov) to confirm you have the most recent version of this document.

*Note:* The FAA makes no guarantees concerning the availability of the systems listed in this appendix, nor any recommendations. The sponsor is solely responsible for making decisions with respect to procuring approved equipment and checking on the availability of spares and replacement parts. The FAA strongly advises sponsors contact their Non-federal Program Implementation Manager before making a purchase.

Red text indicates that a system has FAA approval, but is no longer available for sale.

- 1. Weather Systems ..... H-2**
  - a. Automated Weather Observing System (AWOS)..... H-2
  - b. AWOS Unavailable for Purchase..... H-2
- 2. Visual Aids ..... H-3**
  - a. Airport Lighting Equipment..... H-3
  - b. Approach Lighting System (ALS) ..... H-3
  - c. ALS with Sequenced Flashing Lights (ALSF)..... H-3
  - d. Medium Intensity ALS (MALS) ..... H-4
  - e. MALS with Sequenced Flashing Lights (MALSF) ..... H-4
  - f. MALS with Runway Alignment Indicator Lights (MALSR) ..... H-5
- 3. Navigational Aids ..... H-6**
  - a. Distance Measuring Equipment (DME)..... H-6
  - b. Ground Based Augmentation System (GBAS)..... H-6
  - c. Instrument Landing System (ILS)..... H-6
  - d. Marker ..... H-7
  - e. Non-Directional Beacon (NDB)..... H-8
  - f. Runway Visual Range (RVR) ..... H-9
  - g. Very High Frequency Omnidirectional Range (VOR)..... H-9

## 1. Weather Systems

### a. Automated Weather Observing System (AWOS)

This list is separate. The subject matter expert has responsibility for maintaining the [Approved Non-federal AWOS List of Systems and Manufacturers.](#)

### b. AWOS Unavailable for Purchase

- AWI
  - *AWOS 900*
  
- Vaisala
  - *AWOS VD*
  - *AWOS VC/VD (AW10)*

## 2. Visual Aids

### a. Airport Lighting Equipment

(1) Each month, the [Office of Airports, Safety & Standards, Airport Engineering Division](#) updates its list of Certified Lighting Equipment (CLE), Third-Party Certifiers, and CLE Manufacturers.

(2) You can view this list using the [AC search](#) page, in the most recent version of Advisory Circular (AC) 150/5345-53, *Airport Lighting Equipment Certification Program*. It covers certain lighting equipment, such as PAPIs, VASIs, ODALS, and REILs, but not MALSRs and ALSFs.<sup>1</sup>

(3) The Non-federal Program does not inspect this equipment.

### b. Approach Lighting System (ALS)

Some airports may have military-type ALS, if the airports converted from military to civil use under a Base Realignment and Closure.

### c. ALS with Sequenced Flashing Lights (ALSF)

#### Cat I ALSF-1 (2,400 feet)

- **New Bedford Panoramex**

#### Cat II/III ALSF-2 (Dual mode, high intensity ALS)

- AIRFLO
- **Godfrey**

#### Cat II/III ALSF-2 (Dual mode, high intensity ALS) with FA-10724 RLMS (Remote Lamp Monitoring Subsystem)

- **AIRFLO**
- **Godfrey**

#### Cat II/III ALSF-2 (Dual mode, high intensity ALS) with New Bedford Panoramex RMS (Remote Monitoring Subsystem, FA-10724)

- **New Bedford Panoramex**

---

<sup>1</sup> PAPI – Precision Approach Path Indicator

VASI – Visual Approach Slope Indicator

ODALS – Omni-Directional Approach Lighting System

REIL – Runway End Identifier Light

MALSR – Medium Intensity Approach Lighting System with Runway Alignment Indicator Lights

ALSF – Approach Lighting System with Sequenced Flashing Lights

**d. Medium Intensity ALS (MALS) <sup>2</sup>**

- Hughey & Phillips DME Corp. <sup>3</sup>
- AVW Electronics Multi-electric
- Godfrey
- New Bedford Panoramex
- SEPCO-Crouse Hinds

**e. MALS with Sequenced Flashing Lights (MALSF) <sup>2</sup>**

- Hughey & Phillips DME Corp. <sup>3</sup>
- AVW Electronics Multi-electric
- Godfrey
- GTE-Sylvania
- Multi-Electric Mfg., Inc.
- New Bedford Panoramex
- SEPCO-Crouse Hinds

---

<sup>2</sup> The source for some of this information is the [FSEP Desk Guide](#) for MALS, MALSF, and MALSR, as of 3/1/19. The source for the remaining information was the previous version of this document.

<sup>3</sup> Formerly Astrionics DME, which was previously DME Corporation.

**f. MALS with Runway Alignment Indicator Lights (MALSR) <sup>2</sup>**

- Hughey & Philips DME Corp. <sup>3</sup>
  - *G1-23-1000 no Remote Maintenance Monitoring (RMM)*
  - *FA-11500 with Remote Maintenance Monitoring (RMM)*
  - *FA-17900*
  - *FA-17900 with New Bedford Panoramex control cabinet FA-21000*
- **AVW Electronics Multi-electric**
- **Godfrey**
  - *FA-10267 with New Bedford Panoramex control cabinet FA-21000*
  - *FA-10097 with New Bedford Panoramex control cabinet FA-21000*
  - *FA-10098 with New Bedford Panoramex control cabinet FA-21000*
  - *FA-10290 with New Bedford Panoramex control cabinet FA-21000*
- **GTE-Sylvania**
- **Honeywell/Hughey & Phillips, Inc.**
  - *GEA20-2325 no Remote Maintenance Monitoring (RMM)*
- **Multi-Electric Mfg., Inc.**
  - *FA-9994 no Remote Maintenance Monitoring (RMM); may include New Bedford Panoramex control cabinet FA-21000*
- **SEPCO-Crouse Hinds**
- **ADB Safegate Airport Systems Americas, Inc. <sup>4</sup>**

---

<sup>4</sup> Formerly Siemens Airfield Solutions

### 3. Navigational Aids

The FAA approved the following Navigational Aids (NavAids) under 14 CFR Part 171 or otherwise determined they meet FAA specifications.

#### a. Distance Measuring Equipment (DME)

- Indra Air Traffic, Inc.<sup>5</sup>
  - *Model 1118-0108 dual, low power*
  - *Model 1118-0106 single*
  - *Model 1118-0107 single with transfer control*
  - *Model 1138 remote status and control unit*
  - *Model FA-30600 single high/low power*
  - *Model FA-30601 dual high/low power*
- Thales ATM, Inc.<sup>6</sup>
  - *Model 5960 low and high power*
  - *Model 415 SE low power*
  - *Model 596 B/C*

#### b. Ground Based Augmentation System (GBAS)

- Honeywell International, Inc.
  - *SLS-4000 Category I*

#### c. Instrument Landing System (ILS)

An ILS is comprised of a Localizer (LOC) and a Glideslope (GS). Those facilities may appear in this list identified as separate pieces of equipment.

##### Localizer (LOC)

- Thales ATM, Inc.<sup>6</sup>
  - *Model FA-18401*
  - *Model FA-10582*

##### Glideslope (GS)

- Thales ATM, Inc.<sup>6</sup>
  - *Model FA-18411*
  - *Model FA-10584*

---

<sup>5</sup> Indra Air Traffic Inc. acquired Selex Systems Integration, Inc. formerly known as, in reverse chronological order: Alenia Marconi Systems, Inc.; Airport Systems, Inc. (ASI); and Airport Systems International, Inc. (ASII).

<sup>6</sup> Thales formerly known as “Airsys ATM” and “Wilcox Electric.”

**ILS – Category I**

- Indra Air Traffic, Inc.<sup>5</sup>
  - *Model 1100 single and dual frequency glide slope (GS), single frequency localizer (LOC), single equipment GS and LOC*
  - *Model 2100 single and dual frequency GS and LOC, single and dual equipment GS and LOC*
- Thales ATM, Inc.<sup>6</sup>
  - *Mark I single frequency, single equipment glide slope (GS) and localizer (LOC)*
  - *Mark 10 single and dual frequency, single and dual equipment GS and LOC*
  - *Mark 20A single and dual frequency GS and LOC, single and dual equipment GS and LOC*
  - *Mark 20 dual frequency GS and LOC, dual equipment*
  - *ILS 420 dual frequency LOC, dual equipment GS and LOC*

**ILS – Category II**

- Indra Air Traffic, Inc.<sup>5</sup>
  - *Model 2100 dual equipment, dual frequency GS, dual equipment, dual frequency LOC*
- Thales ATM, Inc.<sup>6</sup>
  - *Mark II dual frequency, dual equipment GS and LOC*
  - *Mark III dual frequency, dual equipment GS and LOC*
  - *Mark 10 dual frequency, dual equipment GS and LOC*
  - *Mark 20A single & dual frequency GS, dual frequency LOC, dual equipment GS and LOC*
  - *Mark 20 dual frequency GS and LOC, dual equipment*
  - *ILS 420 dual frequency LOC, dual equipment GS and LOC*

**ILS – Category III**

- Indra Air Traffic, Inc.<sup>5</sup>
  - *Model 2100 dual equipment, dual frequency GS, dual equipment, dual frequency LOC*
- Thales ATM, Inc.<sup>6</sup>
  - *Mark 20A single and dual frequency GS, dual frequency LOC, and dual equipment GS and LOC*
  - *Mark 20 dual frequency GS and LOC, dual equipment*
  - *ILS 420 dual frequency LOC, dual equipment GS and LOC*

**d. Marker**

- Thales ATM, Inc.<sup>6</sup>
  - *Model FA-10587*

**e. Non-Directional Beacon (NDB)**

There are two tables for the NDB. The first one is a list of NDB systems and the second is a list of NDB components.

**NDB**

- Nautel Maine, Inc.
  - *Model VR-125 (125 watt transmitter) restricted –voice feature not allowed*
  - *Model FA-9781 (400 watt transmitter)*
  - *Model FA-9782 (50 watt transmitter)*
- Scientific Radio Systems, Inc.
  - *Model FA-9590 LF/MF Transmitting System*
- Southern Avionics Company
  - *SA-25*
  - *SA-50*
  - *SA-100*
- Sparton Electronics Division, Sparton Corp.
  - *Model FA-9424 (or FA-9421) low-power station*

**NDB Components**

- Nautel Maine, Inc.
  - *Model FA-9782/1 (50 watt antenna tuning unit)*
  - *Model FA-9893 LF/MF Monitor Alarm Receiver*
- New Bedford Panoramex Corp.
  - *Antenna Resistance Meter*
- Polestar Antenna Company, Ltd.
  - *Antenna Control Unit (type NACA3) for Nautel FA-9782*
  - *Antenna Model PA35D for Nautel FA-9782*
- Raven Ind., Inc.
  - *Model FA-8957 LF/MF Monitor Alarm Receiver*
- Scientific Radio Systems, Inc.
  - *Model FA-9590 Antenna for FA-9590 LF/MF*
  - *FA 9589 Transmitter for FA-9590 LF/MF*
  - *FA 9589/1 Antenna Tuning Unit for FA-9590 LF/MF*
  - *FA 9589/2 Remote Modem for FA-9590 LF/MF*
  - *Model FA-9591 LF/MF Monitor Receiver System, SR-515*



**f. Runway Visual Range (RVR)**

- Vaisala, Inc.
  - *Model FA-19200 PC-based*

**g. Very High Frequency Omnidirectional Range (VOR)**

- Indra Air Traffic, Inc. <sup>5</sup>
  - *Model 1150 conventional*
- Thales ATM, Inc. <sup>6</sup>
  - *Model 5850 conventional*