

FEDERAL CONTRACT TOWER MINIMUM EQUIPMENT LIST

JANUARY, 2007

- a. Voice switch communication equipment capable of radio and telephone ATC communication as appropriate. This must include the capability of headset use and instructor/student override capabilities.
- b. One headset per controller and one handset per position, with appropriate spares.
- c. Very High Frequency radios for ground/air communication, as required, to support level of traffic; i.e. Local Control, Ground Control, Automated Terminal Information Service, Clearance Delivery, and Emergency; one transmitter and one receiver for each frequency. Handheld radios are not authorized as primary units.
- d. Ultra High Frequency radios for ground/air communication, as required, to support military operations. Handheld radios are not authorized as primary units.
- e. Landline communication system with direct access line to controlling instrument flight rules facility.
- f. Tunable emergency backup transceiver with battery backup supply.
- g. Dual deck, multi-channel, voice recorder system, for continuous unattended recording of each position used for receiving/transmitting ATC clearances, coordination, and instructions. Capabilities must include: synchronized recording of time, playback without recording interruption, re-recording to suitable portable storage media and/or a portable recorder with re-recording capability, any internal storage media must be configurable to preclude retention of data older than 45 days, remote alarm. Appropriate storage media must be provided (one for each of 45 days, plus spares). Additionally, the portable recorder should be capable of stereo recording in order to record data on one channel and the time source on the other channel.
- h. Back up power source for essential equipment, i.e. radios, voice switch, cab HVAC, etc.
- i. Two altimeter-setting indicators. A certifiable Digital Altimeter Setting Indicator (DASI) is preferred and required if ASOS/AWOS or a "traceable pressure standard" is not available within 10 miles for precision approaches and 25 miles for non-precision approaches. Re: FAA Order 7210.3, Section 8 and FAA Notice 7210.477. Aircraft altimeters are not acceptable.
- j. Temperature and Dew Point Equipment
- k. Two direct reading wind information indicators.
 - l. If AWOS/ASOS is available on the airport, locate ASOS/AWOS Operator Input Device (OID) in the tower cab. Include an ASOS/ATIS interface device.
- m. Two pair of operable binoculars.(7x50 or greater)
- n. Signal light gun with a back-up power source.
- o. At least one 24-hour clock with seconds display, ie: digital LED.
- p. Alert system to notify airport emergency equipment operator.
- q. Airport lighting controls.
- r. Window shading as prescribed in FAA regulations for all tower cab windows (adjustable). (FAA specification E 2470)
- s. Mechanical or electronic traffic counting device.
- t. Position lighting (to support established operating positions with rheostat control).
- u. Electro Static Discharge (ESD) resistant controller chairs of appropriate height for the conduct of tower operational duties.
- v. Floor covering must be ESD resistant.

Note - U and V: other floor grounding apparatus may be necessary dependant upon specifications of the electronic equipment installed.
- w. Administrative telephone with handsets in the operating and administrative quarters.
- x. Automatic Terminal Information Service (ATIS)
- y. Appropriate non-operational space and equipment will also be provided. This must include:
 - (1) Lockable Air Traffic Managers office
 - (2) Restroom one floor below the tower cab
 - (3) Training/break room
 - (4) Appropriate desk, chairs, table, and locking file cabinet

Note: DASI requires documentation to validate traceability to the National Institute of Standards (NIST). If manufacturer cannot provide it, DASI cannot be used at LAWRS sites.