

## **Air Traffic Control Tower. FAC: 1413**

CATCODE: 149962

OPR: AFFSA

OCR: AF/A3O-AO

1.1. **Description.** The air traffic control tower is necessary for the safe and efficient conduct of flight operations and consists of the control tower cab, a training and crew briefing room, mechanical rooms, Airfield Operations flight office, Commander's office, administration, back-up generator, utility support, extensive communication support, catwalk around the outside of the cab, intercom system, security system, and an elevator in new facilities. A Surface Weather Observing Facility (**CATCODE 141629**) or Base Operations (**CATCODE 141453**) may also be included in this facility. Provide an access road and parking lot for non-organizational and organizational vehicles.

1.2. **Requirements Determination.** Each airfield is authorized an air traffic control tower. See *Air Traffic Control Tower and Radar Approach Control Facility Design Guide* for further guidance. For the latest information and drawings, plans, utility, siting, and electronic requirements, consult AFFSA.

1.3. **Scope Determination.** Space requirements are generally dictated by the site survey and statement of intent (SOI) that defines some site-specific design parameters. Consult Chapter 1 of the *Air Traffic Control Tower and Radar Approach Control Facility Design Guide* for additional guidance.

1.4. **Dimensions.** Space requirements depend primarily on the height requirements of the tower and the standard floor layout. See **Table 1.1** and Parts 3 and 4 of the *Air Traffic Control Tower and Radar Approach Control Facility Design Guide*.

1.5. **Design Considerations.** The vertical stacking abilities and computer-controlled, electro-mechanical devices may require additional design considerations for floor loading, fire sprinkler delivery volumes and layout, electrical power supply, and environmental control. Provisions should be made for panels for remote control of airport lighting. Special protection or siting may be required in high-threat areas. A method of emergency egress may be required; contact the installation fire chief for assistance. See section 17, *Air Traffic Control Siting Criteria*, of UFC 3-260-01, for additional information.

**Table 1.1. Air Traffic Control Tower Space Requirements.**

Function	Net Building Area	
	m2	ft2
Lobby	4.27	46
Elevator1	as needed	
Elevator Machine Room	as needed	
Mechanical and Electrical Room	as needed	
Simulator Classroom	32.52	350
Administration2,3	5.95/person	64/person
Airfield Operations Flight Office (Type D)2	11.15	120
Training Room3,4	--	--
Equipment Rooms	as needed	
Ready/Break Room	28	300
Control Tower Cab	50	540
Toilets (alternating floors)	2.6 to 3.3	28 to 35
Communications/Power Closet	as needed	
Weather Observation Site (if space is available)	28	300
Stairs	as needed	
Parking spaces (largest duty shift)	0.5 x number of people	
<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. Equip towers with a cab floor level of 50 ft or more above the ground floor with an elevator.</li> <li>2. See Chapter 6 of this Manual for approved office types and sizes.</li> <li>3. Number of personnel requires user justification.</li> <li>4. See Chapter 6, Tables 6.3 and 6.4.</li> </ol>		