

## § 95.3301

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### Subpart M—The 76–81 GHz Band Radar Service

SOURCE: 82 FR 43871, Sept. 20, 2017, unless otherwise noted.

#### ADMINISTRATIVE RULES

##### § 95.3301 Scope.

This subpart sets out the regulations that apply to radar systems operating in the 76–81 GHz band. This subpart does not apply to Level Probing Radars that operate under part 15 of this title.

##### § 95.3303 Definitions, the 76–81 GHz Band Radar Service.

(a) *Air operations area*. See § 87.5 of this chapter.

(b) *Field disturbance sensor*. See § 15.5(l) of this chapter.

(c) *Foreign object debris (FOD) detection radar*. A radar device designed to detect foreign object debris in airport air operations areas and to monitor aircraft as well as service vehicles on taxiways, and other airport vehicle service areas that have no public vehicle access.

(d) *Radar*. See § 2.1(c) of this chapter.

##### § 95.3305 Radar operator eligibility in the 76–81 GHz Band.

Subject to the requirements of §§ 95.305 and 95.307, any person is eligible to operate a radar in the 76–81 GHz band without an individual license; such operation must comply with all applicable rules in this subpart.

#### OPERATING RULES

##### § 95.3331 Permissible 76–81 GHz Band Radar Service uses.

Radar systems operating in the 76–81 GHz band may operate as vehicular radars, or as fixed or mobile radars in airport air operations areas, including but not limited to FOD detection radars and aircraft-mounted radars for ground use only.

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##### § 95.3333 Airborne use of 76–81 GHz Band Radar Service is prohibited.

Notwithstanding the provisions of § 95.3331, 76–81 GHz Band Radar Service is prohibited aboard aircraft in flight. Aircraft-mounted radars shall be equipped with a mechanism that will prevent operations once the aircraft becomes airborne.

##### § 95.3347 76–81 GHz Band Radar Service automatic control.

Notwithstanding the provisions of § 95.347, 76–81 GHz Band Radar Service operations may be conducted under manual or automatic control.

#### TECHNICAL RULES

##### § 95.3361 Certification.

Radar equipment operating in the 76–81 GHz band shall be certificated in accordance with this subpart and subpart J of part 2 of this chapter.

##### § 95.3367 76–81 GHz Band Radar Service radiated power limits.

The fundamental radiated emission limits within the 76–81 GHz band are expressed in terms of Equivalent Isotropically Radiated Power (EIRP) and are as follows:

(a) The maximum power (EIRP) within the 76–81 GHz band shall not exceed 50 dBm based on measurements employing a power averaging detector with a 1 MHz Resolution Bandwidth (RBW).

(b) The maximum peak power (EIRP) within the 76–81 GHz band shall not exceed 55 dBm based on measurements employing a peak detector with a 1 MHz RBW.

##### § 95.3379 76–81 GHz Band Radar Service unwanted emissions limits.

(a) The power density of any emissions outside the 76–81 GHz band shall consist solely of spurious emissions and shall not exceed the following:

(1) Radiated emissions below 40 GHz shall not exceed the field strength as shown in the following emissions table.

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009–0.490 .....	2400/F(kHz)	300
0.490–1.705 .....	24000/F(kHz)	30
1.705–30.0 .....	30	30