of time, so as not to adversely affect
life or property in the air;
(5) The equipment must be inspected
at least every 180 days. Results of in-
spections must be kept in the station
maintenance records;
(6) The transmitter is not operable by
or accessible to, other than authorized
persons;
(7) The transmitter is in a remote lo-
cation.
(b) Authority for unattended oper-
ation must be expressly stated in the
station license.
[53 FR 28940, Aug. 1, 1988, as amended at 63
FR 68958, Dec. 14, 1998]
§ 87.483 Audio visual warning systems.
An audio visual warning system
(AVWS) is a radar-based obstacle
avoidance system. AVWS activates ob-
struction lighting and transmits VHF
audible warnings to alert pilots of po-
tential collisions with land-based ob-
structions. The AVWS operations are
limited to locations where natural and
man-made obstructions exist. The con-
tinuously operating radar calculates
the location, direction and groundspeed
of nearby aircraft that enter one of two
warning zones reasonably established
by the licensee. As aircraft enter the
first warning zone, the AVWS activates
obstruction lighting. If the aircraft
continues toward the obstacle and en-
ters the second warning zone, the VHF
radio transmits an audible warning de-
scribing the obstacle.
(a) Radiodetermination (radar) fre-
cuencies. Frequencies authorized under
§ 87.475(b)(8) of this chapter are avail-
able for use by an AVWS. The fre-
cuency coordination requirements in
§ 87.475(a) of this chapter apply.
(b) VHF audible warning frequencies.
Frequencies authorized under § 87.187(j),
§ 87.217(a), § 87.241(b), and § 87.323(b) (ex-
cluding 121.950 MHz) of this chapter are
available for use by an AVWS. Multiple
frequencies may be authorized for an
individual station, depending on need
and the use of frequencies assigned in
the vicinity of a proposed AVWS facili-
ty. Use of these frequencies is subject
to the following limitations:
(1) The output power shall not exceed
–3 dBm watts for each frequency au-
thorized.
(2) The antenna used in transmitting
the audible warnings must be
omnidirectional with a maximum gain
equal to or lower than a half-wave
centered dipole above 30 degrees ele-
vation, and a maximum gain of +5 dBi
from horizontal up to 30 degrees ele-
vation.
(3) The audible warning shall not ex-
ceed two seconds in duration. No more
than six audible warnings may be
transmitted in a single transmit cycle,
which shall not exceed 12 seconds in
duration. An interval of at least twen-
ty seconds must occur between trans-
mitt cycles.
[78 FR 61207, Oct. 3, 2013]
Subpart R [Reserved]
Subpart S—Automatic Weather
Stations (AWOS/ASOS)
§ 87.525 Scope of service.
Automatic weather observation sta-
tions (AWOS) and automatic surface
observation stations (ASOS) must pro-
vide up-to-date weather information
including the time of the latest weath-
er sequence, altimeter setting, wind
speed and direction, dew point, tem-
perature, visibility and other pertinent
data needed at airports having neither
a full-time control tower nor a full-
time FAA Flight Service Station.
When a licensee has entered into an
agreement with the FAA, an AWOS or
an ASOS may also operate as an auto-
matic terminal information station
(ATIS) during the control tower’s oper-
ating hours.
[64 FR 27476, May 20, 1999]
§ 87.527 Supplemental eligibility.
(a) Licenses will be granted only
upon FAA approval.
(b) Eligibility for an AWOS, an
ASOS, or an ATIS is limited to the
owner or operator of an airport or to a
person who has entered into a written
agreement with the owner or operator
for exclusive rights to operate and
maintain the station. Where applicable
a copy of the agreement between the
applicant and owner or operator of the
airport must be submitted with an ap-
plication.