

AC NO: 70/7460-2E

DATE: 7/5/73

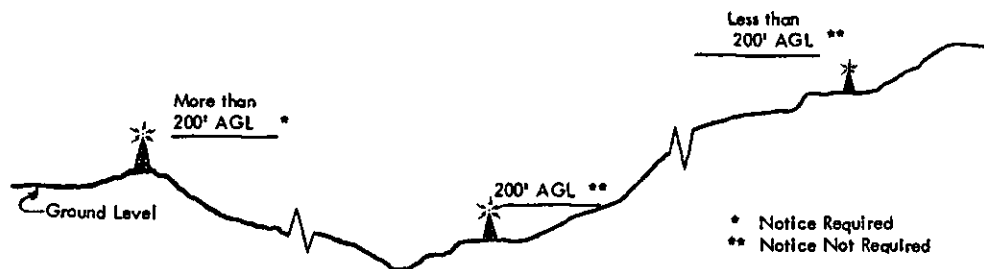


ADVISORY CIRCULAR

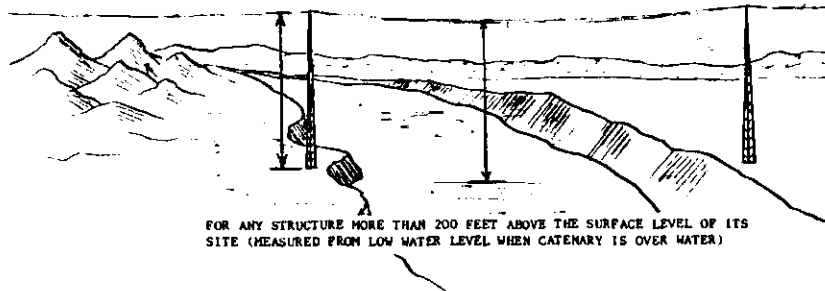
DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

SUBJECT: PROPOSED CONSTRUCTION OR ALTERATION OF OBJECTS
THAT MAY AFFECT THE NAVIGABLE AIRSPACE

1. **PURPOSE.** The purpose of this advisory circular is to advise those persons proposing to erect or alter an object that may affect the navigable airspace of the requirement to submit a notice to the Administrator of the Federal Aviation Administration (FAA). It also contains the addresses of the regional offices and availability of associated publications.
2. **CANCELLATION.** This cancels AC 70/7460-2D, dated February 20, 1973.
3. **KIND OF OBJECTS.** The notice requirement criteria apply to the proposed construction or alteration of any structure (building, tower, roadway, overhead wires and their supporting structures, etc.), including any construction equipment employed. These criteria apply to the height of overhead communications and electric transmission lines above the terrain, or water if so situated, as well as the height of their supporting structures.
4. **WHO MUST FILE A NOTICE.** A construction sponsor is required by regulation^{1/} to submit notice to the Administrator of the FAA if his proposed construction or alteration exceeds one or more of the following conditions:
 - a. **Greater Than 200 Feet in Height.** If the proposed object would be more than 200 feet above ground level (AGL) at its location.

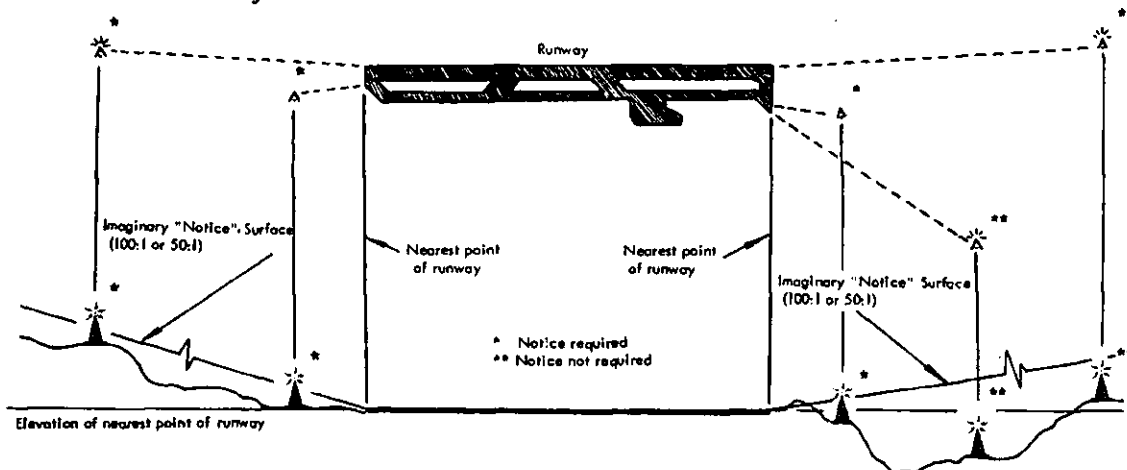


^{1/} Persons failing to comply with the provisions of the Federal Aviation Regulations, Part 77, may be liable to a fine of up to five hundred dollars (\$500.00) as provided for by Section 902(a) of the Federal Aviation Act of 1958, as amended.



b. Near an Airport.^{2/}

- (1) If the proposed object would be within 20,000 feet of an airport with at least one runway more than 3,200 feet in length; and would exceed one foot in height for each 100 feet (100:1) horizontally from the nearest point of the nearest runway.

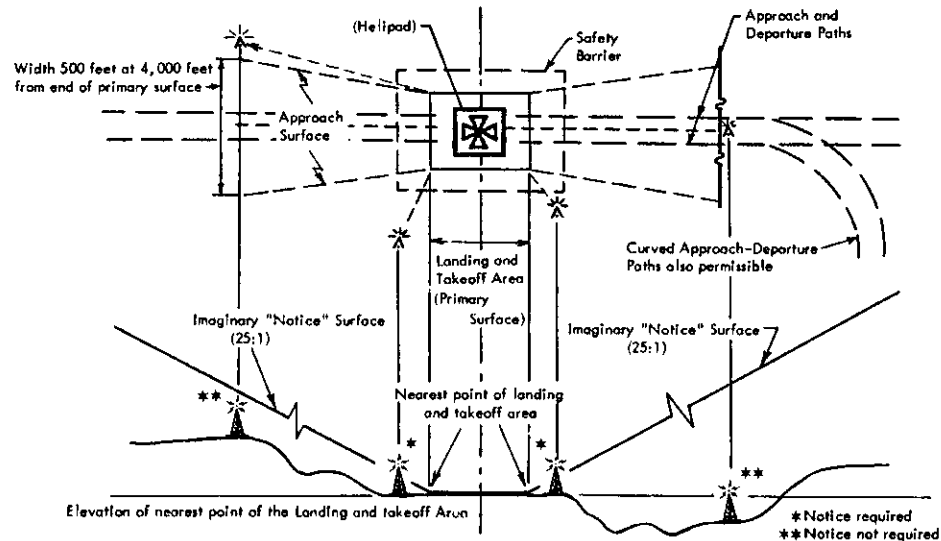


- (2) If the proposed object would be within 10,000 feet of an airport^{2/} having no runway more than 3,200 feet in length; and would exceed one foot in height for each 50 feet (50:1) horizontally from the nearest point of the nearest runway. (See diagram under item 4b(1))

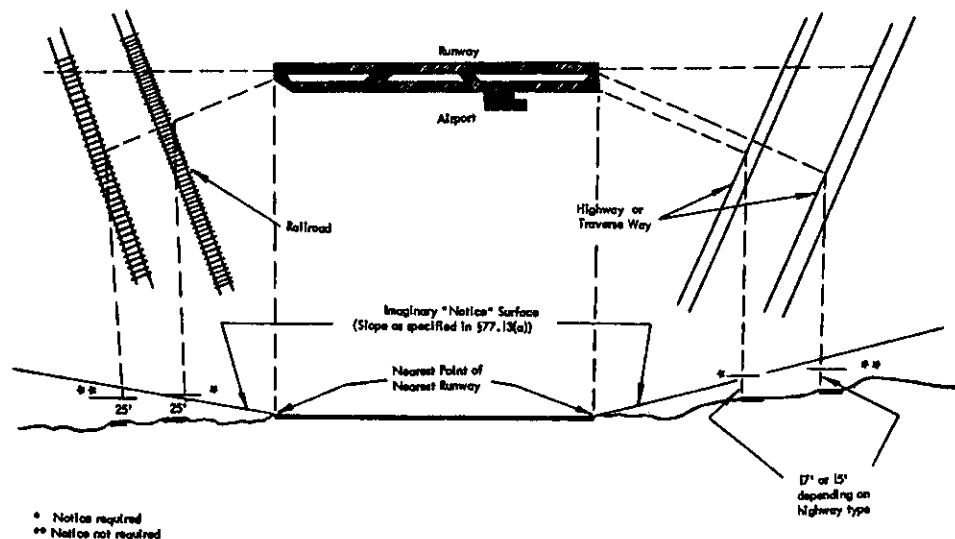
c. Near a Seaplane Base.^{2/} If the proposed object would be near a seaplane base, apply item b(1) or (2) above as applicable.

^{2/} To qualify, an airport, or visually marked seaplane base, must be listed in the "Airport Directory" of the current Airman's Information Manual or in either the Alaska or Pacific Airman's Guide and Chart Supplement or operated by a Federal military agency.

- d. **Near a Heliport.** If the proposed object would be within 5,000 feet of a heliport listed in the "Airport Directory" or operated by a Federal military agency; and would exceed one foot in height for each 25 feet (25:1), horizontally from the nearest landing and takeoff area of that heliport.

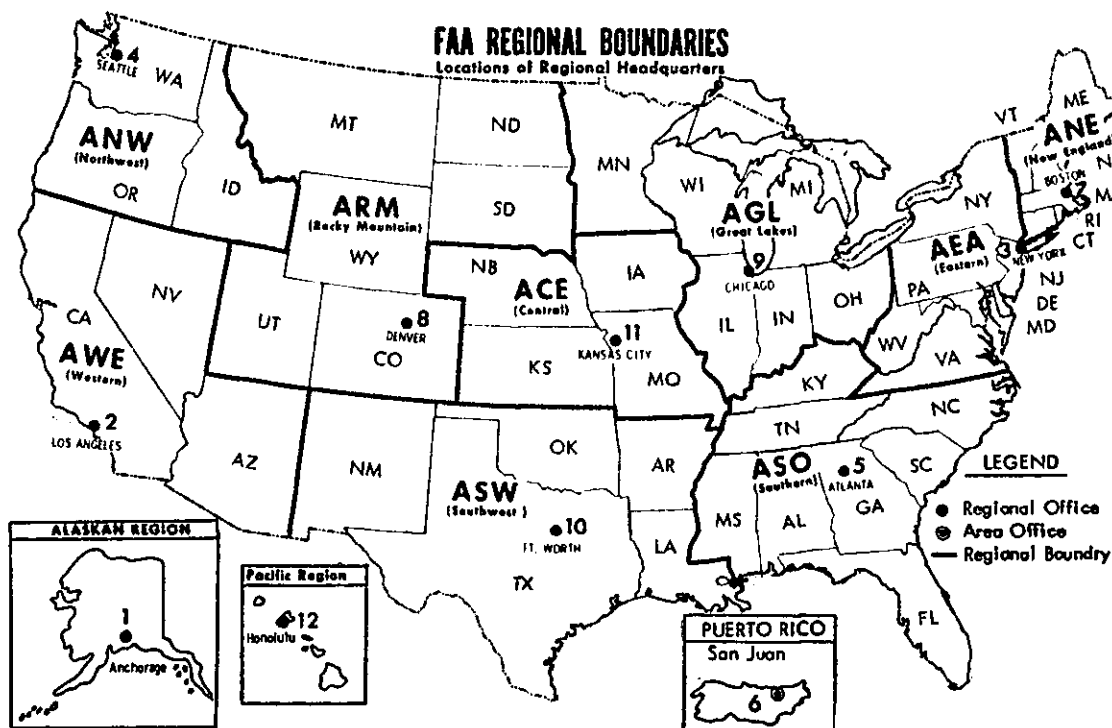


- e. **Highways and Railroads.** If the proposed object is a traverse way which would exceed at least one of the standards listed in Items a - d above, after its height is adjusted upward 17 feet for an Interstate Highway, 15 feet for any other public roadway, 10 feet (or the height of the highest mobile objects that would normally traverse the road) for a private road, 23 feet for a railroad, or an amount equal to the height of the highest mobile objects that would traverse a waterway or any other thoroughfare not previously mentioned.



- f. Object on an Airport. If the proposed construction or alteration would be on an airport.
 - g. When Requested by FAA. The FAA may request a notice if available information indicates the proposal may exceed a standard.
5. WHEN TO FILE A NOTICE. The notice required under Item 4a through g above must be submitted.
- a. At least 30 days before:
 - (1) the construction or alteration is to begin; or,
 - (2) the application for a construction permit is to be filed.
 - b. On or before the date the application for construction is filed with the Federal Communications Commission (FCC), if the proposed structure would be subject to FCC licensing requirements.
 - c. Immediately by telephone or other expeditious means, with written notification submitted within five days thereafter, if immediate construction or alteration is required as in cases involving public services, health or safety.
 - d. As early as possible, and preferably in the planning stage, for construction or alteration on an airport or near an air navigational facility if the proposal could possibly have an adverse effect on air traffic control operations or an air navigation facility. This includes the effect of the physical presence of structures upon the line-of-sight capability of airport air traffic control towers and the operation of air traffic control radar, as well as the interference effect of electrical signals transmitted by some structures upon ground-based or airborne air navigation equipment.
6. WHY A NOTICE IS REQUIRED. Notice of proposed construction or alteration is required so that the FAA may:
- a. Issue notices to airmen (NOTAMS).
 - b. Depict obstructions on aeronautical charts.
 - c. Recommend appropriate marking and lighting.
 - d. Be made aware of potential aeronautical hazards in order to attempt to prevent or minimize them.
 - e. Insure judicious use of airspace.
 - f. Protect the lives and property of persons in the air and on the ground.

6. **HOW TO NOTIFY FAA.** Notification to the FAA may be made by forwarding one completed set of FAA Form 7460-1, Notice of Proposed Construction or Alteration, to the Chief, Air Traffic Division, at the regional office having jurisdiction over the area within which the construction or alteration will be located. In Puerto Rico, notices should be forwarded to the Chief, Air Traffic Branch, San Juan Area Office.
7. **WHERE TO FILE A NOTICE.** The geographic area of jurisdiction for each FAA office is indicated below:



ADDRESS OF REGIONAL OFFICES AND SAN JUAN AREA OFFICE

- | | | | |
|---|--|--|--|
| 1 AAL - ALASKAN REGION
Alaskan Regional Office
623 Sixth Avenue
Anchorage, AK 99501
Tel. 907-265-4500 | 4 ANW - NORTHWEST REGION
Northwest Regional Office
FAA Building, Boeing Field
Seattle, WA 98108
Tel. 206-767-2750 | 7 ANE - NEW ENGLAND REGION
New England Regional Office
154 Middlesex Street
Burlington, MA 01803
Tel. 617-223-6410 | 10 ASW - SOUTHWEST REGION
Southwest Regional Office
4400 Blue Mound Road
Fort Worth, TX 76101
Mail Address:
P.O. Box 1689
Fort Worth, TX 76101
Tel. 817-624-4911, ext. 306 |
| 2 AWE - WESTERN REGION
Western Regional Office
1500 Aviation Boulevard
Hawthorne, CA 90260
Mail Address:
P.O. Box 92007
Worldway Postal Center
Los Angeles, CA 90009
Tel. 213-536-6186 | 5 ASO - SOUTHERN REGION
Southern Regional Office
3400 Whipple Street
East Point, GA 30344
Mail Address:
P.O. Box 20636
Atlanta, GA 30320
Tel. 404-526-7240 | 8 ARM - ROCKY MOUNTAIN REG.
Rocky Mountain Regional Office
10455 East 25th Avenue
Aurora, CO 80010
Mail Address:
Park Hill Station, P.O. Box 7213
Denver, CO 80207
Tel. 303-837-4677 | 11 ACE - CENTRAL REGION
Central Regional Office
601 East 12th Street
Kansas City, MO 64106
Tel. 816-374-3408 |
| 3 AEA - EASTERN REGION
Eastern Regional Office
JFK International Airport
Federal Building
Jamaica, NY 11430
Tel. 212-995-3390 | 6 SAN JUAN AREA
San Juan Area Office
RFD-1, Box 29A
Loiza Street Station
San Juan, PR 00914
Tel. 809-791-2310 | 9 AGL - GREAT LAKES REGION
Great Lakes Regional Office
2300 East Devon Avenue
Des Plaines, IL 60018
Tel. 312-694-4500, ext. 456 | 12 APC - PACIFIC-ASIA REGION
Pacific-Asia Regional Office
1833 Kalakaua Avenue
Honolulu, HI 96815
Mail Address:
P.O. Box 4009
Honolulu, HI 96813
Tel. 808-9550-491 |

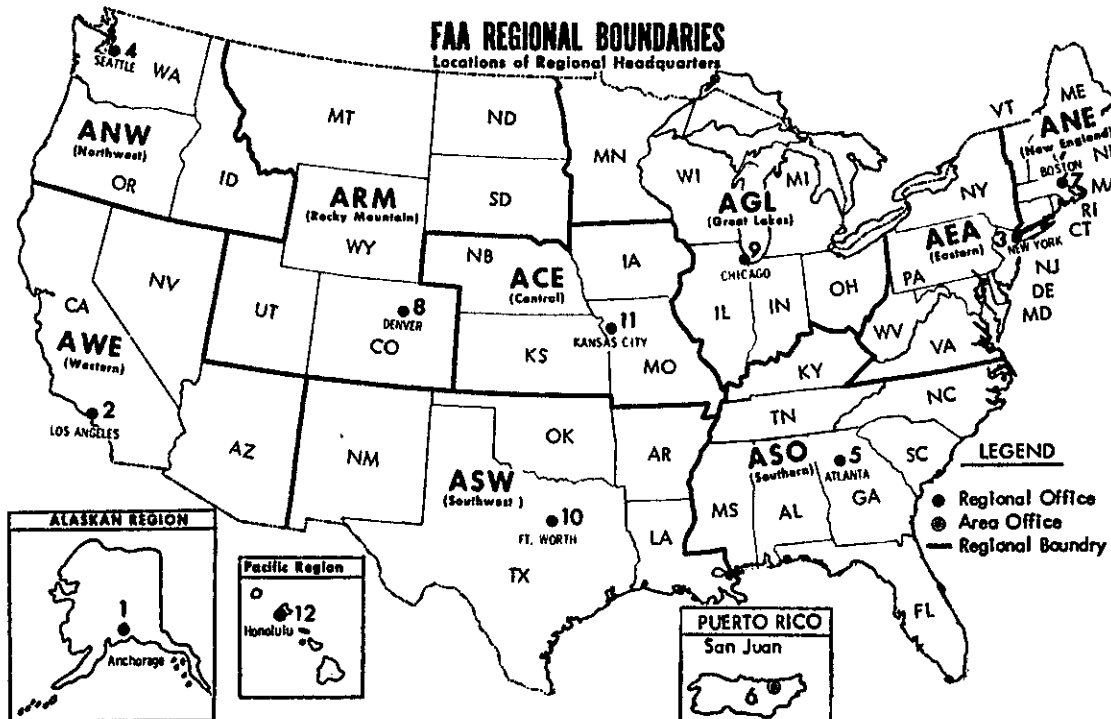
8. ASSISTANCE.

- a. Specialists. Airspace specialists are available in the FAA area and regional offices to provide technical assistance, if required.
- b. Maps. Topographical Map Series, 7.5 minute, Quadrangle maps (Scale 1:24,000), showing the shape and elevation of the terrain and selected man-made and natural features of the earth's surface plotted to a definite scale, and geographic coordinates are available for most sections of the country from U. S. Geological Survey, Map Distribution Section, 1200 Eads Street, Arlington, Virginia 22202. A check or money order in the amount of 75 cents for each map should accompany the order. Customers west of the Mississippi should order from: Distribution Section, U. S. Geological Survey, Building 41, Denver, Colorado 80225.
- c. Geographic Coordinates and Mean Sea Level Elevations. This information is generally obtainable from the above maps; local zoning boards and surveyors may also be able to provide this information.
- d. FAA Form 7460-1. These forms may be obtained free of charge from FAA regional and area offices.
- e. Volume XI, Federal Aviation Regulations (FAR). Part 77, Objects Affecting Navigable Airspace, is now included in Volume XI. This Federal Regulation contains the standards for determining obstructions in navigable airspace and prescribes the requirements for notice to the FAA. The purchase of a FAR volume will establish your subscription service with the Superintendent of Documents for automatic receipt of changes to the volume as issued by the FAA.
- f. Marking and Lighting Advisory Circular, AC 70/7460-1. This circular explains and describes the approved standards, procedures and equipment for marking and lighting obstructions.
- g. How to Obtain Copies of Volume XI, FAR, and AC 70/7460-1.

(1) Volume, XI, Federal Aviation Regulations:

- (a) Identify the publication by its full title as above.
- (b) Order copies of this publication from: The Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.
- (c) Payment. Send a check or money order made payable to The Superintendent of Documents, in the amount of \$2.75 for each copy ordered. No C.O.D. orders are accepted.

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| 3 AEA - EASTERN REGION
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10. ASSOCIATED PUBLICATIONS. The following publications contain obstruction criteria, marking and lighting standards and paint specifications:a. Advisory Circulars.(1) AC 70/7460-1, Obstruction Marking and Lighting.

Purpose. To describe the standards for marking and lighting of structures such as buildings, chimneys, antenna towers, cooling towers, storage tanks, supporting structures of overhead wires, etc.

(2) AC 150/5345-1, Approved Airport Lighting Equipment.

Purpose. Lists the approved airport and obstruction lighting equipment by model number and the manufacturers qualified to supply products in accordance with the indicated specification requirements.

(3) AC 150/5340-21, Airport Miscellaneous Lighting Visual Aids.

Purpose. To provide guidance for the installation, maintenance, testing and inspection of airport visual aids and the red flashing and steady burning obstruction lighting systems. (It is anticipated that guidance for the installation and maintenance of the high intensity white obstruction lighting system will be included in the next revision.)

Availability. FAA advisory circulars are available free of charge from: Department of Transportation, Distribution Unit, TAD-484.3, Washington, D. C. 20590.

b. FAA Forms.

(1) FAA Form 7460-1, Notice of Proposed Construction or Alteration.

Purpose. To notify the FAA of the proposed construction or alteration of an object that may interfere with the navigable airspace.

(2) FAA Form 7460-2, Notice of Progress of Construction or Alteration.

Purpose. To notify the FAA of progress, when and as requested on the form. This form will be automatically furnished by the FAA regional office issuing the determination whenever notification is needed for charting purposes and to change affected aeronautical procedures.

Availability. FAA forms are available free of charge from all FAA regional offices. (See Item 8.)

c. Federal Aviation Regulations.

(1) Volume XI, Federal Aviation Regulations. This contains Part 77, Objects Affecting the Navigable Airspace.

Purpose. To prescribe the standards for determining obstructions in navigable airspace and to set forth the requirements for notice to the FAA of proposed construction or alteration.

Availability. Volume XI is available for \$5.00 from: Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402. Make check or money order payable to Superintendent of Documents.

d. Marking Specifications and Standards. Aviation colors and paint should conform with the following:

(1) Federal Standard Number 595, Color Guide, Ready Mixed Paint.

(a) Orange Number 12197

(b) White Number 17875

(2) Federal Specification TT-P-59, Aviation Surface Paint, Ready Mixed, International Orange.

- (3) Federal Specification TT-P-102, Aviation Surface Paint, Oil Titanium Lead-Zinc and Oil, Exterior, Ready Mixed, White and Light Tints.

Availability. FAA standards and specifications are available free of charge from: Business Service Center, General Services Administration, Washington, D. C. 20405.

e. Lighting Specifications.

(1) Aviation Red Obstruction Lighting Systems.

- (a) Color. Military Specification MIL-C-25050
Colors; Aeronautical Lights and Lighting Equipment

(b) Rotating Beacons.

- 1 Military Specification MIL-L-7185
Lamp Assembly, 24-inch, Rigid Drum-Type
Rotating Beacon
- 2 FAA Specification 291
Beacon, 36-inch, Rotating Double-Ended Type

(c) Flashing Code Beacons.

FAA Specification 446
Code Beacons, 300 MM

(d) Double and Single Obstruction Lights.

- 1 Military Specification MIL-L-7830
Light, Navigational Boundary and Obstruction Markers
- 2 FAA Advisory Circular Number 150/5345-2
Specifications for L-810 Obstruction Light

(2) High Intensity White Obstruction Lighting Systems.

FAA Advisory Circular Number 150/5345-43, FAA/DOD Specification L-856, High Intensity Obstruction Lighting Systems.

Availability. The lighting specifications listed above may be obtained free of charge from the designated facility.

Military Specifications:

Commanding Officer
Naval Publications and Forms Center
5801 Tabor Avenue
Attention: NPFC-105
Philadelphia, Pennsylvania 19120

FAA Specifications:

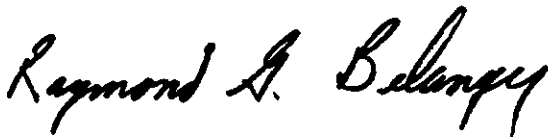
Chief, Standards Division, AAS-500
Department of Transportation
Federal Aviation Administration
800 Independence Avenue, S. W.
Washington, D. C. 20591

FAA Advisory Circulars:

Department of Transportation
Distribution Unit, TAD-484.3
Washington, D. C. 20590

11. HOW TO OBTAIN ADDITIONAL COPIES OF THIS ADVISORY CIRCULAR.

- a. AC 70/7460-2E, Proposed Construction or Alteration That May Affect the Navigable Airspace, dated July 5, 1973.
- b. Identify the publication by its full title as in a. above and order from: Department of Transportation, Distribution Unit, TAD-484.3, Washington, D. C. 20590.
- c. Payment. There is no charge for this publication.



Raymond G. Belanger
Acting Director, Air Traffic Service