

Section 74 – AIRPORT OBSTRUCTION LIGHTS
(FAA L-119)

Black text – from standard FAA spec

Blue text – additions to FAA standard spec

~~Strikeout text~~ – deletions from FAA standard spec

Red text – notes to the Engineer/won't appear in spec

I. DESCRIPTION

A. GENERAL

1. This item shall consist of furnishing and installing obstruction lights

II. EQUIPMENT AND MATERIALS

A. GENERAL

1. Airport lighting equipment and materials shall be certified and listed
2. All equipment and materials shall be subject to acceptance through manufacturer's certification
3. Manufacturer's certifications shall not relieve the Contractor of responsibility
4. All materials and equipment shall be submitted to the Engineer for approval
5. The data submitted shall be sufficient, to determine compliance with the plans
6. All equipment and materials shall be guaranteed against defects for a period of at least twelve (12) months

B. OBSTRUCTION LIGHTS

1. Shall conform to the requirements of AC 150/5345-43

C. ISOLATION TRANSFORMERS

1. Shall conform to the requirements of AC 150/5345-47

D. TRANSFORMER HOUSING

1. Shall conform to AC 150/5345-42

E. CONDUIT

1. For use above ground, rigid steel conduit

F. PLASTIC CONDUIT

1. For below grade only
 - a) Type I – Schedule 40 PVC
 - b) Type II – Schedule 40 PVC

Section 74 – AIRPORT OBSTRUCTION LIGHTS
(FAA L-119)

G. WIRES

1. Wires in conduit rated up to 5,000 volts shall conform to AC 150/5345 7

H. MISCELLANEOUS

1. Paint, poles, pole steps, insulators, and all other miscellaneous materials

III. CONSTRUCTION METHODS

A. PLACING THE OBSTRUCTION LIGHTS

1. Contractor shall furnish and install single-or double-obstruction lights

B. INSTALLATION ON POLES

1. Obstruction light shall be installed with its hub at least as high as the top of the pole

C. INSTALLATION ON BEACON TOWER

1. Two obstruction lights shall be mounted on top of the beacon tower

D. INSTALLATION ON BUILDINGS, TOWERS, SMOKESTACKS, ETC.

1. The installation shall be made in accordance with details shown in the plans

E. SERIES ISOLATED TRANSFORMERS

1. An isolation transformer is required with each series lamp

F. WIRING

1. The Contractor shall furnish all necessary labor and materials

G. LAMPS

1. Lamps as specified by the manufacturer

H. TESTS

1. The installation shall be fully tested

IV. METHOD OF MEASUREMENT

1. Obstruction lights shall be measured by the number of double, or single obstruction lights

Section 74 – AIRPORT OBSTRUCTION LIGHTS
(FAA L-119)

V. BASIS OF PAYMENT

1. Payment will be made at the contract unit price

VI. MATERIAL REQUIREMENTS

1. AC 150/5345-7
2. AC 150/5345-42
3. AC 150/5345-43
4. AC 150/5345-47
5. ANSI/ICEA S-70-547-1992
6. FED SPEC J-C-30

END OF SECTION 74