

**ORDER**

**DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION**

6850. 25

9/9/82

**SUBJ: HIGH INTENSITY APPROACH LIGHTING SYSTEM WITH SEQUENCED  
FLASHING LIGHTS**

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1. PURPOSE. This order directs the use of the standard drawings listed in appendix 1 and Specification FAA-C-2722 to establish high intensity approach lighting system with sequenced flashing lights (ALSF-2).
2. DISTRIBUTION. This order is distributed to the branch level in Airway Facilities Service; to division level in Logistics, System Research and Development, and Air Traffic Services, Office of the Associated Administrator for Airports, and the Office of Flight Operations in Washington headquarters; branch level in regional Airway Facilities, Airports, Flight Standards, and Air Traffic divisions; to the Director, FAA Technical Center and the Aeronautical Center.
3. APPLICATION. The drawings contained in appendix 1 shall be used for the installation of ALSF-2 systems. The applicable ALSF-2 system, Type FA-9993, is manufactured by Godfrey Manufacturing, Inc., under Contract DTFA01-80-C-20106. The applicable sequenced flashing lights, Types FA-9985 and FA-9986 are operated with a master timer Type FA-9988, each manufactured by ADB-ALNACO, Inc., under Contract DTFA01-80-C-20051.
4. DEVIATION FROM STANDARD. No deviation from the standard is authorized without the prior approval of the Director, Airway Facilities Service. Regional site adaptation to accommodate terrain, utility construction, parking lots, access roads, and similar details are authorized without further clearance. Dimensional errors, discrepancies, or suggestions for modification or addition of details should be brought to the attention of the Manager, Environmental Systems Division, AAF-500.
5. CORRECTIONS TO STANDARD. Corrections to the standard may be made by the Director, Airway Facilities Service, without further regional or interservice coordination. These may include corrections of dimensional errors, misspellings, and modification, addition, or deletion of details.

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6. DISTRIBUTION OF DRAWINGS. A reproducible copy of each drawing is being forwarded to the Aeronautical Center, Attention: Manager, FAA Depot; to the FAA Technical Center; and each region, Attention: Manager, Airway Facilities Divisions. Additional copies may be obtained from the Administrative Staff, AAF-10, Airway Facilities Service.

  
GERALD L. THOMPSON  
Director, Airway Facilities Service

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Appendix 1

APPENDIX 1. HIGH INTENSITY APPROACH LIGHTING SYSTEM  
WITH SEQUENCED FLASHING LIGHTS (ALSF-2)

| <u>DRAWING NO.</u> | <u>DATE</u> | <u>REV.</u> | <u>TITLE</u>  |
|--------------------|-------------|-------------|---|
| D-6131-1           | 4/22/82     | A           | Typical Plan and Profile  |
| D-6131-2           | 4/22/82     | A           | Typical Light Bar Schedule<br>and Cable Trenching Plan                              |
| D-6131-3           | 4/22/82     | A           | Typical Light Bar Schedule<br>and Cable Trenching Plan                              |
| D-6131-4           | 4/22/82     | A           | Dual Mode Field Lighting<br>Schematic Diagram                                       |
| D-6131-5           | 4/22/82     | A           | Sequenced Flasher Wiring<br>Diagram and Wire Sizing<br>Criteria                     |
| D-6131-6           | 4/22/82     | A           | Semi-Flush Lighting<br>Installation Details (Sheets<br>1 and 2)                     |
| D-6131-7           | 4/22/82     | A           | Light Bars 6'-0" and under<br>Threshold STA 1 Through<br>4 and STA 6 Through 9      |
| D-6131-8           | 4/22/82     | A           | Light Bars 6'-0" and Under<br>Through 24 + 00 STA 5,<br>and STA 10 Through 24       |
| D-6131-9           | 4/22/82     | A           | Light Bar Wiring Diagrams<br>(Sheets 1 and 2)                                       |
| D-6131-10          | 4/22/82     | A           | Light Bar Mountings 6'-<br>0" and Under   |
| D-6131-11          | 4/22/82     | A           | Light Bars 6'-1" to 128'-<br>0" Station Configuration<br>Details                    |
| D-6131-12          | 4/22/82     | A           | LIR Structures MG-20,<br>MG-30, MG-40 Electrical<br>Equipment Installation          |
| D-6131-13          | 4/22/82     | A           | Individual Control Cabinet,<br>Junction Box, and Transformer<br>Housing Foundations |

| <u>DRAWING NO.</u> | <u>DATE</u> | <u>REV.</u> | <u>TITLE</u>   |
|--------------------|-------------|-------------|--|
| D-6131-14          | 4/22/82     | A           | LIR Structures MG-30,<br>MG-40, and MS-20 Electrical<br>Equipment Installation |
| D-6131-15          | 4/22/82     | A           | PAR 56 Lampholder, Flasher,<br>and Maintenance Stand<br>Installation Details   |
| D-6131-16          | 4/22/82     | A           | 40'-1" to 128 Foot LIR<br>Tower Electrical Installation<br>Details             |
| D-6131-17          | 4/22/82     | A           | Regulator Substation Floor<br>Plan   |
| D-6131-18          | 4/22/82     | A           | Regulator Substation/Reference<br>Lamps and Mechanical<br>Equipment Layout     |
| D-6131-19          | 4/22/82     | A           | Regulator Substation Electrical<br>Plan  |
| D-6131-20          | 4/22/82     | A           | Regulator Substation Foundation<br>Plan and Oil Sump Detail                    |
| D-6131-21          | 4/22/82     | A           | Regulator Substation Conduits<br>Routing Plan                                  |
| D-6131-22          | 4/22/82     | A           | Regulator Substation Schematic<br>Diagram                                      |
| D-6131-23          | 4/22/82     | A           | ATCT Control and Regulator<br>Substation (Cont.) Schematic<br>Diagrams         |