

**ORDER**

DEPARTMENT OF TRANSPORTATION  
FEDERAL AVIATION ADMINISTRATION

6850.23

9/17/81

SUBJ: MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY  
ALIGNMENT INDICATOR LIGHTS AND RUNWAY END IDENTIFIER LIGHTS

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1. PURPOSE. This order directs the use of the standard drawings listed in appendix 1 and Specification FAA-C-2626a to establish medium intensity approach lighting system with runway alignment indicator lights (MALSR) and runway end identifier lights (REIL).
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 Associate 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 MALSR and REIL systems. The applicable MALSR systems are types FA-9995 and FA-9877 manufactured by Multi-Electric Manufacturing, Inc., under Contract DTFA01-80-C-20090 and DTFA79WA-4290. The applicable sequenced flashing lights are types FA-9985 and FA-9986 with a master timer type FA-9989, 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 Chief, 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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Distribution: A-W(AF)-3; A-W(LG/RD/AT/AS/RP/PP/FO)-2;  
A-X(AF/AS/FS/AT)-3; A-YZ-1

Initiated By: AAF-530

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



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GERALD L. THOMPSON  
Director, Airway Facilities Service

APPENDIX 1. MEDIUM INTENSITY APPROACH LIGHTING SYSTEM WITH RUNWAY  
ALIGNMENT INDICATOR LIGHTS AND RUNWAY END IDENTIFIER LIGHTS

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>
D-6213-1	9/15/81	MALSR with Threshold Lights and Low Impact Resistant Structure Plan and Profile View of MALSR
D-6213-2	"	MALSR with Threshold Lights and Low Impact Resistant Structure Electrical Details
D-6213-3	"	MALSR with Threshold Lights and Low Impact Resistant Structure Flasher Electrical Details
D-6213-4	"	MALSR with Threshold Lights Low Impact Resistant Structure Power and Control Station Equipment Mounting Details
D-6213-5	"	MALSR with Threshold Lights and Low Impact Resistant Structure Threshold Light Details
D-6213-6	"	MALSR with Threshold Lights and Low Impact Resistant Structure Semi-flush Threshold Lights, Details for Runway Overrun Installation
D-6213-7	"	MALSR with Threshold Lights and Low Impact Resistant Structure up to 6'- 0" Mounting Height Frangible Light Bar
D-6213-8	"	MALSR with Threshold Lights and Low Impact Resistant Structure 6' -0" to 40' -0" Mounting Height Steady Burning Light Details
D-6213-9	"	MALSR with Threshold Lights and Low Impact Resistant Structure 6' - 0" to 40' -0" Mounting Height Flasher Light Installation Details

<u>Drawing No.</u>	<u>Date</u>	<u>Title</u>
D-6213-10	9/15/81	MALSR with Threshold Lights and Low Impact Resistant Structure 6' -0" to 40' -0" Mounting Height LIR Tower Foundation Details
D-6213-11	"	MALSR with Threshold Lights and Low Impact Resistant Structure 6' -0" to 4' -0" Mounting Height Miscellaneous Details
D-6213-12	"	MALSR with Threshold Lights and Low Impact Resistant Structure 6' -0" to 40' -0" Mounting Height Underground Conduit System
D-6213-13	"	MALSR with Threshold Lights and Low Impact Resistant Structure 6' -0" to 40' -0" Mounting Height Structural Erection and Details
D-6213-14	"	MALSR with Threshold Lights and Low impact Resistant Structure 6' -0" to 40' -0" Mounting Height Frangible T-Bar andRAIL Flasher Mounting Head
D-6213-15	"	MALSR with Threshold Lights and Low Impact Resistant Structure 40' -0" to 128' -0" Mounting Height LIR Wiring
D-5888-8	"	Runway End Identifier Lights Equipment Details
D-5888-9	"	Runway End Identifier Lights Installation Details