




**115 & 230 kV Transmission Line
Markers**

Equipment Specification
Document No.: 4752.236
Originating Dept: Transmission
Engineering

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Management Approval

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Version History

Version	Date	Revision Comments
00	Dec 27, 2022	First Issue
01	Jan 12, 2023	Correction in Warehouse numbers



1.0 Specific Name

- 1.1. 230kV & 115kV Line Markers

2.0 Basic Use

- 2.1. Warning markers have been specifically designed for installation overhead power lines (230kV & 115kV), OPGW, and Overhead Ground Wire to provide a high visibility aerial warning.

3.0 Special Requirements

- 3.1. Samples shall be furnished if requested by LUMA.

4.0 Quantity

- 4.1. One (1) Spherical Line Marker, properly labeled, for testing and/or analysis. Vendors that have supplied this material on previous orders do not need to furnish samples at bid opening. Descriptive and technical literature shall be supplied if requested by LUMA. With respect to products described in this specification as requiring qualification, awards will be made only for such products that have, prior to the time act for opening of bids, been tested and/or approved by LUMA. Evidence of prior approval of the equipment or material shall be supplied by Vendor if requested by LUMA.

5.0 Marking and Packaging

- 5.1. Containers shall be marked outside with LUMA'S purchase order number and code number. Vendor shall prepare material and equipment for shipment in such manner as to facilitate handling and protection for damage. All material should be packaged and marked in such a way that the receiving warehouse can readily identify and send in one (1) complete unit to a field location without opening crates or boxes to sort items and / or parts.

6.0 Number of Pieces per Package

- 6.1. As Per LUMA's Needs.

7.0 Acceptance Criteria

- 7.1. Latest FAA standards and other applicable Codes and Standards. If the Vendor does not demonstrate its compliance with applicable standards and these specification requirements, the bid may be rejected.



8.0 Description

- 8.1. Power Line Markers made of durable ABS with special coating, reduce corona effects that can degrade and discolor.
- 8.2. Standard Marker Diameter: 24 in.
- 8.3. Max voltage operation 230kV.
- 8.4. Standard Color: Orange.
- 8.5. Line Marker Package List:
 - A. 2 interchangeable Plastic Marker Halves
 - B. 13 Bolts (Black Oxide Coated)
 - C. 26 Flat Washers
 - D. 8 Split Lock Washers
 - E. 8 Hex nuts
 - F. 6 Self Locking Nuts
 - G. 2 Armor rod assemblies with connector plates
- 8.6. The provided armor rod shall comply with a Diameter Range: 1.270” – 1.327”. The armor rod and shall be able to be installed on the following’s conductors:
 - A. 1192.5 MCM ACSR Bunting (45/7). Conductor Diameter: 1.302.
 - B. 1192.5 MCM ACSR PR Special (36/1). Conductor Diameter: 1.274.

9.0 Equal or approved to:

- 9.1. SpanGuard EHV and SpanGuard ABS Line Marker 24”

10.0 LUMA Warehouse Number

Manufacturer Catalog Number	LUMA Warehouse Number
SG240 (115kV Line Marker)	072-82311
EHV240 (230kV Line Marker)	072-82313

11.0 Inspection

- 11.1. The acceptance of any material or equipment shall in no way relieve the Vendor from his responsibility to meet all the requirements of this specification, and it shall not prevent subsequent rejection if such material is found to be defective later.

12.0 Typical Drawing

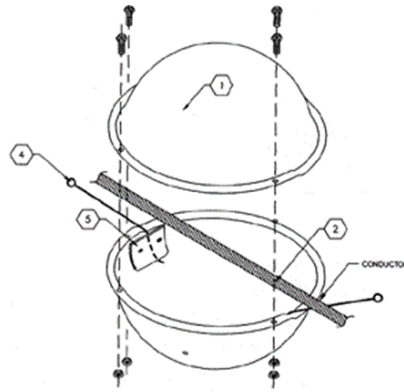


Figure 1: SpanGuard Line Marker

- End of Specification -











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Final Audit Report

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