



Document Title:
38 kV Pole Support Arm

Document Type:
Specification

Engineering Type
Material Specification

Document No.:
4752.320

Department:

Version:
01


Effective Date:
Dec 19, 2024

Transmission Engineering

Shared document with: N/A

Author

Guillermo J. Nieves Díaz
Technical Specialist 1, Transmission Lines Engineering Design & Standards


Guillermo Nieves (Dec 6, 2024 16:16 AST)

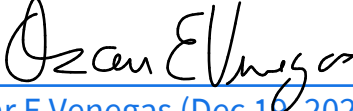
Reviewer 1

Leonardo Montes Sánchez
Engineer 2, Transmission Lines Engineering Design & Standards


Leonardo Montes Sanchez (Dec 9, 2024 15:52 AST)

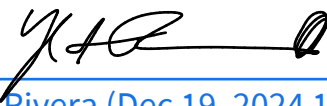
Reviewer 2

Oscar Venegas
Supervisor, Transmission Lines Engineering Design & Standards


Oscar E Venegas (Dec 19, 2024 13:54 AST)

Approver

Yamil I. Rivera Hernández
Section Manager, Transmission Lines Engineering Design


Yamil Rivera (Dec 19, 2024 13:56 AST)

Management Approval (If apply)

Approver

Name
Position

Signature and Date

Related/Referenced Documents

Version	Date	Revision Comments
00	Apr 19, 2023	First Issue
01	Dec 19, 2024	Changed cover page and document to new format. Changed special requirements into specific requirements and reworked content. Added a table of compliance and Proposal Information. Equal or approved Equal changed to Compatible with and was modified.

1. General

1.1. Overview

1.2. This is a general specification that covers the minimum requirements for 38 kV Pole Equipment Arm to be used in the transmission overhead system in Puerto Rico.

1.2.1. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site conditions, quantity, and other requirements.

1.2.2. This document includes the general electrical and mechanical characteristics of this material.

2. Specific Name

2.1. 38 kV Pole OGPW Support Arm

3. Basic Use

3.1. For installation of 38 kV OPGW on transmission structure to assemble 38 kV Transmission Line Riser.

4. Materials

5. Specific Requirements

5.1. Samples shall be furnished to LUMA.

5.2. LUMA requires One (1) unit properly labeled for testing and analysis.

5.3. Descriptive and technical literature shall be supplied to LUMA.

5.4. They shall be required to show evidence of LUMA's approval of the equipment.

6. Acceptance Criteria

6.1. Test required: Certified by external laboratories.

6.2. Shall be designed, rated, and manufactured, and tested in accordance with the latest applicable IEEE, NEMA, ANSI, ASTM, and NEC Standards. If the vendor does not demonstrate its compliance with the applicable standards, these specification requirements and supply the requested documents, the bid may be rejected.

6.3. All sharp edges shall be avoided in order to have smooth trims and surfaces all around the equipment arm.

7. Description

7.1. Characteristics and dimensions for 38 kV Pole OGPW Support Arm shall be as follows:

- Length: 18"
- Rise: 5"
- Ultimate Vertical Strength: 5,700 lbs.

7.2. Ground lug shall be welded to base plate.

8. Markings and Packaging

8.1. 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.

9. Compatible with:

9.1. Hughes Brothers, Inc. – C4484-CDE18G

9.2. This model is an example of the equipment/material described in this document and do not represent a preference. LUMA will evaluate equally any model not listed here during any acquisition event.

10. Proposal Information

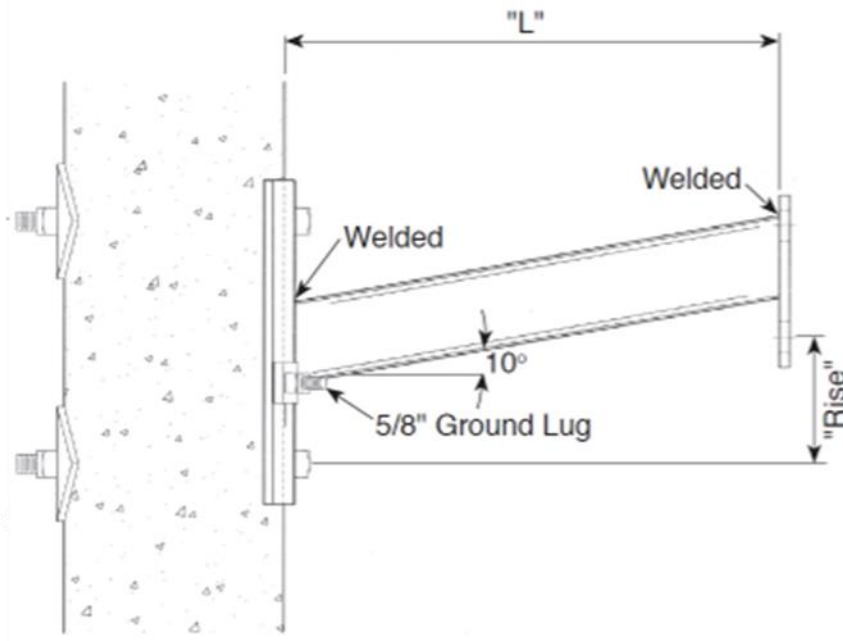
10.1. Submitted proposals must include:

- a. Technical Information
- b. Table of Compliance completed by the bidder with reference

11. 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. Drawings



Warehouse ID	008-84646
--------------	-----------

— End of Specification —

Appendix

Appendix 1. Table of Compliance

Line	Criteria	Description	Pass/Fail (P / F)	Comments
1	Specification	The Proponent complies with the corresponding specification document (4752.320)		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document (IEEE, NEMA, ANSI, ASTM, NEC)		
3	Material	38 kV Pole OGPW Support Arm		
4	Characteristics	Length: 18		
		Rise: 5"		
		Ultimate Vertical Strength: 5,700 lbs.		
5	Requirements	<ul style="list-style-type: none"> • Samples shall be furnished to LUMA. • Descriptive and technical literature shall be supplied to LUMA. • Required to be certified by external laboratories. • All sharp edges shall be avoided in order to have smooth trims and surfaces all around the equipment arm. • Ground lug shall be welded to base plate 		












4752.320 38 kV Pole Support Arm

Final Audit Report

2024-12-19

Created:	2024-12-06
By:	Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAQNLZVojX78iIIZoNv9I2WVK59W_3W9UA

"4752.320 38 kV Pole Support Arm" History

-  Document created by Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
2024-12-06 - 8:15:59 PM GMT
-  Document e-signed by Guillermo Nieves (guillermoj.nievesdia@lumapr.com)
Signature Date: 2024-12-06 - 8:16:49 PM GMT - Time Source: server
-  Document emailed to Leonardo Montes Sanchez (leonardo.montessanch@lumapr.com) for signature
2024-12-06 - 8:16:50 PM GMT
-  Document e-signed by Leonardo Montes Sanchez (leonardo.montessanch@lumapr.com)
Signature Date: 2024-12-09 - 7:52:09 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXX5488
-  Document emailed to Oscar Venegas (oscar.venegas@lumapr.com) for signature
2024-12-09 - 7:52:12 PM GMT
-  Signer Oscar Venegas (oscar.venegas@lumapr.com) entered name at signing as Oscar E Venegas
2024-12-19 - 5:54:33 PM GMT
-  Document e-signed by Oscar E Venegas (oscar.venegas@lumapr.com)
Signature Date: 2024-12-19 - 5:54:35 PM GMT - Time Source: server- Signature captured from device with phone number XXXXXXX2079
-  Document emailed to Yamil Rivera (yamil.rivera@lumapr.com) for signature
2024-12-19 - 5:54:36 PM GMT
-  Email viewed by Yamil Rivera (yamil.rivera@lumapr.com)
2024-12-19 - 5:55:07 PM GMT
-  Document e-signed by Yamil Rivera (yamil.rivera@lumapr.com)
Signature Date: 2024-12-19 - 5:56:11 PM GMT - Time Source: server
-  Agreement completed.
2024-12-19 - 5:56:11 PM GMT