



Equipment Specification
Document No.: 4350.228
Item No.: 072-05020
Asset Suite: 75982
Originating Department: Distribution Engineering



Arc Flash Full Body Harness

1. Introduction

This is a general specification that covers the minimum requirements for arc flash full body harness to be used in the distribution system in Puerto Rico. Further information will be provided by LUMA Energy at the time of order placement and will provide information on site specific conditions, quantity, and other requirements. This document includes the general mechanical characteristics of the material.

2. Special Requirements

Samples shall be furnished as requested by LUMA Energy. Vendors that have supplied this material to PREPA / LUMA on previous orders, will not have to furnish samples at bid opening. The material will be received at the LUMA's general warehouse (011) at Palo Seco, Puerto Rico. Shipping will include transportation and unloading at the indicated warehouse.

3. Quantity/Literature

Descriptive and technical literature must be supplied by vendor at time of bidding. This literature may include, but is not limited to details of material, drawings, documented testing, and instructions for use and installation. Failure to submit documents on time will cause bidder disqualification. For products described in this specification as requiring qualification, awards will be made only for such products that, prior to the time for opening of bids, had been tested and/or approved by LUMA. Evidence of PREPA's and/or LUMA Energy's approval of the equipment or material shall be supplied by vendor if requested by LUMA Energy.

4. Markings

- 4.1. Containers shall be marked outside with LUMA Energy's purchase order and item number.
- 4.2. Packaging labels and tags shall be waterproof.

5. Equal or Approved Equal to

Supplier shall indicate model with specifications for LUMA approval.

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6. Packaging

All material and equipment shall be packaged and marked in such a way as to facilitate handling and protection from damage and that the receiving warehouse can readily identify it and send it, in one complete unit, to a field location without opening crates or boxes to sort items and/or parts.

7. Number Per Package (Logistics)

See table 1 or as requested by LUMA.

8. Acceptance Criteria

8.1. Test required: certified by external qualified laboratories.

8.2. Latest applicable codes, standards, and other regulations:

- a. ANSI A10.4: Safety requirements for personnel hoists and employee elevators on construction and demolition sites.
- b. ANSI Z359.1: Standard for the fall protection code.
- c. ANSI Z359.3: Safety requirements for lanyards and positioning lanyards.
- d. ASTM F887: Standard specification for personal climbing equipment.

9. Description

9.1. Arc flash full body harness is used for personal fall protection where electric arc flashes are possible.

9.2. Characteristics:

- a. Style: Vest
- b. Size: Large
- c. Arc flash resistance up to 40 cal / cm².
- d. Webbing material minimum strength of 7,000 lb.

9.3. Shall be furnished with leather insulators behind the hardware for reduced conductivity.

9.4. Shall have a Delta (triangular) no-tangle design that holds the shape of the harness making it easy to put on.

9.5. Shall have a central back web loop to reduce overall weight and side web loops for positioning.

9.6. Shall have parachute adjuster buckles on lower shoulder straps.

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- 9.7. Shall have one handed quick connect buckle leg and chest straps for ease of donning.
- 9.8. Shall be furnished with corrosion resistant plated hardware.
- 9.9. Shall be furnished with an impact indicator to allow immediate replacement of unit involved in arresting a fall.

10. Inspection

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 would not prevent subsequent rejection if such materials were found later to be defective.

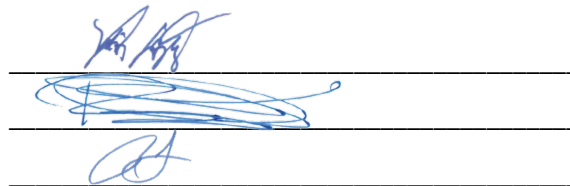
11. Proposal Information

- a. Technical information
- b. Table of Compliance completed by the bidder with reference. (See Appendix 1)

- End of Specification -

Document History

Date: 04/12/2022
Version: 3
Author: Miguel J. Rios
Reviewer: Rafael Torres
Approver: Ricardo Castro



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Appendix

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Appendix 1: Table of Compliance

Line	Criteria	Description	Pass/Fail (P/F)	Comments
1	Specification	The Proponent complies with the corresponding specification document 4350.228.		
2	Industry Standards	The Proponent complies with the industry standards established in the specification document. (ANSI, ASTM)		
3	Style	Vest		
4	Characteristics	<ul style="list-style-type: none"> Arc Flash Resistance up to 40 cal / cm² Webbing Material Minimum Strength of 7,000 lbs. 		
5	Product Requirement	Leather insulators behind the hardware.		
6	Product Requirement	Central Back and Side Web Loops.		
7	Product Requirement	Parachute Adjuster Buckles on lower shoulder straps.		
8	Product Requirement	One handed quick connect buckle leg and chest straps.		
9	Product Requirement	Impact indicator to allow immediate replacement of unit.		