



# Department of Property & Procurement

Government of the United States Virgin Islands

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June 23, 2021

## **AMENDMENT FOUR (4) IFB034DSPRT21(C)— Alvin McBean Complex Hurricane Repair Project on the island of St. Thomas**

**Delete Site Visit Date: 10:00 AM, AST on Thursday, June 17, 2021**

**Insert Site Visit Date: 12:00 Noon, PM, AST, Monday, June 28, 2021**

**Delete Request for Information Date: 12:00 Noon, PM, AST Thursday,  
June 24, 2021**

**Insert Request for Information Date: 12:00 Noon, PM, AST, June 30,  
2021**

### **Question/Answers:**

#### **Question:**

“ LED Product must be of equal or superior quality to Musco’s SportsCluster System with TLC for LED (See Appendix 1 specific ation document)”

Has the Appendix 1 been issued?

**Answer: See Appendix 1 (attached)**

ALL OTHER TERMS AND CONDITIONS REMAIN UNCHANGED.

BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS AMENDMENT WITH THEIR BID PROPOSAL.

**Appendix 1**

**Alvin McBean Sports Complex – Lighting Specification**

**PART 1 – GENERAL**

**1.1 LIGHTING PERFORMANCE**

- A. Illumination Levels and Design Factors: Playing surfaces shall be lit to an average target illumination level and uniformity as specified in the chart below.

<b>Softball</b>		
<b>Area of Lighting</b>	<b>Average Target Illumination Levels</b>	<b>Maximum to Minimum Uniformity Ratio</b>
Infield	50 footcandles	2:1
Outfield	30 footcandles	2.5:1

<b>Basketball, Volleyball, Tennis, and Handball courts</b>	
<b>Average Target Illumination Levels</b>	<b>Maximum to Minimum Uniformity Ratio</b>
30 footcandles	3:1

**PART 2 – PRODUCT**

**2.1 SPORTS LIGHTING SYSTEM CONSTRUCTION**

1. All luminaires, visors, and cross-arm assemblies shall withstand 150 mi/h winds and maintain luminaire aiming alignment.
2. Enhanced corrosion protection package: Due to the potentially corrosive environment for this project, manufacturers must provide documentation that their products meet the following enhanced requirements in addition to the standard durability protection specified above:
  - a) Exposed carbon steel horizontal surfaces on the crossarm assembly shall be galvanized to no less than a five (5) mil average thickness.
  - b) Exposed die cast aluminum components and exposed extruded aluminum components shall be Type II anodized per MIL-STD-8625 and coated with high performance polyester.
3. Safety: All system components shall be UL listed for the appropriate application.

**2.3 CONTROL**

- A. Instant On/Off Capabilities: System shall provide for instant on/off of luminaires.
- B. Lighting contactor cabinet(s) constructed of NEMA Type 4 aluminum, designed for easy installation with contactors, labeled to match field diagrams and electrical design. Manual off-on-auto selector switches shall be provided.

- C. Remote Lighting Control System: System shall allow owner and users with a security code to schedule on/off system operation via a web site, phone, fax or email up to ten years in advance.
- D. Communication Costs: Manufacturer shall include communication costs and internet connection for operating the control and monitoring system for a period of 10 years.

### **PART 3 – EXECUTION**

#### **3.1 Project Management:**

- A. Lighting Manufacturer should provide on-site project manager as needed to assist local installing contractor with installation.

#### **3.2 DELIVERY TIMING**

- B. Delivery Timing Equipment On-Site: The equipment must be on island 10-14 weeks from receipt of approved submittals and receipt of complete order information.
- C. Installation Timeframe: Contractor must complete installation of equipment within 4 weeks of equipment arriving in USVI.

#### **3.3 FIELD QUALITY CONTROL**

- A. Illumination Measurements: Upon substantial completion of the project and in the presence of the Contractor, Project Engineer, Owner's Representative, and Manufacturer's Representative, illumination measurements shall be taken and verified. The illumination measurements shall be conducted in accordance with IESNA LM-5-04.
- B. Field Light Level Accountability
  - 1. Light levels are guaranteed not to fall below the target maintained light levels for the entire warranty period of 10 years. These levels will be specifically stated as "guaranteed" on the illumination summary provided by the manufacturer.
- C. Correcting Non-Conformance: If, in the opinion of the Owner or his appointed Representative, the actual performance levels including footcandles and uniformity ratios are not in conformance with the requirements of the performance specifications and submitted information, the Manufacturer/Contractor shall be required to make adjustments to meet specifications and satisfy Owner.

#### **3.4 PARTS AND MAINTENANCE GUARANTEED FOR 10 YEARS**

- A. 10-year Warranty: Each manufacturer shall supply a signed warranty covering the entire system for 10 years from the date of shipment. Warranty shall guarantee specified light levels for 10 years.
- B. Maintenance: Manufacturer shall monitor the performance of the lighting system, including on/off status, hours of usage and luminaire outage for 10 years from the date of equipment shipment. Parts and labor shall be covered such that individual luminaire outages will be repaired when the usage of any field is materially impacted. Manufacturer is responsible for removal and replacement of failed luminaires, including all parts, labor, shipping, and equipment rental associated with maintenance. Owner agrees to check fuses in the event of a luminaire outage.

### **PART 4 – DESIGN APPROVAL**

**4.0** Due to Musco Lighting having provided original system including poles and foundation, the Approved Product: Musco's SportsCluster System™ with TLC for LED™ is the approved product. Any other lighting product must be of equal or superior quality while meeting the performance requirements in this specification document. Musco Lighting's Caribbean sales representative can be contacted at:

Christopher Hansen – Musco Representative - Caribbean

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