



# METROPOLITAN WASHINGTON AIRPORTS AUTHORITY

RFP-18-32181

## Design Build Concourse C/D Electrical Ductbank Rehabilitation and Feeder Replacement Project at Washington Dulles International Airport

May 1, 2019

### Questions and Answers

**Notice:** Questions may have been edited for clarity and relevance.

- 1. Question:** Has the Airports Authority conducted any previous video inspections of the conduits in question and are those videos available to prospective bidders.

**Answer:** MWAA has the video inspections for two (2) conduits between manholes 19EP6/19EP7 and two (2) conduits between manholes 19EP6/20EP15. These videos are available on the solicitation website (Pre-Proposal Conference Documents). Contractor shall consider all the ductbank to be rehabilitated in the scope has the similar condition as in the videos.
- 2. Question:** What manhole/manholes do the feeders originate in?

**Answer:** 19EP-5
- 3. Question:** What building/buildings/substation do the feeders originate from for disconnection of feeders?

**Answer:** Tier 1 substation located in Concourse A/B, the feeder runs through different manholes to 19EP-5. The project scope starts from 19EP-5
- 4. Question:** Which of the manholes are the feeders tapped in to feed the (7) unit substations?

**Answer:** 20EP-3 (A4, A5), 20EP-8 (A3), 20EP-12(A2), 20EP-15(A2A), 20EP-17(A1A), 20EP-18(A1B)
- 5. Question:** Where are the (7) unit substations located? It appears we are replacing the taps as well as the feeders so we would need to know distances from manholes to the unit substations.

**Answer:** The exact distances from the manholes are not available, it can be assumed as 30' for the price estimation purpose. Below is the list of the manhole that feeds the substations.

<u>Substation</u>	<u>Adjacent Manhole</u>
A1A	20EP-17
A1B	20EP-18
A2A	20EP-15
A2	20EP-12
A3	20EP-8
A4/A5	20EP-3

6. **Question:** Other than the (7) unit substations is that all that is tapped from the feeders?  
**Answer:** 19EP-5, 19EP-6, 19EP-8, 20EP-15, 20EP-20A, 20EP-1
7. **Question:** What is the size of the manholes?  
**Answer:** Manhole sizes vary; some are approximately 8' W x 10' L x 8' H and some are 8' W x 12' L x 8' H. We do not have exact dimensions for each manhole.
8. **Question:** Is a full lap of each conductor required in the manhole?  
**Answer:** Yes, a full wrap for each of the two (2) feeders.
9. **Question:** Is firetaping of conductors required? If so, can each feeder be firetaped in a bundle or does each individual conductor need to be firetaped?  
**Answer:**
10. **Question:** Are the unit substations double ended with a tie to allow us to de-energize one end for change overs while allowing the other feeder and substation with loads to remain operational?  
**Answer:** Per MWAA design manual, Section III 22.5.3: Medium voltage cables installed in manholes and pullboxes shall be wrapped with fireproofing tape with each conductor separately wrapped.
11. **Question:** Are there any full outages required?  
**Answer:** See answer to number 10 above.
12. **Question:** Can the owner provide a one line diagram of the cable routings and taps?  
**Answer:** No one-line diagram or cable routings is available. Schematic feeder tap diagram is attached in the new revised SOW which is modified to include Appendix 2 "Concourse C/D Schematic Feeder Tap Diagram".
13. **Question:** I am not sure I understand the Dead Break Junction and Elbow Chart....a one line to see how the feeders actually run might explain it better.  
**Answer:** See answer to number 12 above.
14. **Question:** What is the required current rating of the deadbreak junctions?  
**Answer:** Minimum of 600A, copper only.
15. **Question:** Is there any grounding to be replaced or redone in the manholes?  
**Answer:** Only if the existing grounding is broken.