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REQUEST FOR INFORMATION	DATE: March 03, 2017	NO.: RFI-468
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To: Cannon Design

Attn: Kelvin Patel

From: Paric Corporation

Requested By: Devin Gates

Project Name: 15051-Webster University Interdisciplinary Science Building	Project No.: 15051
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Subject: AHU#1 and AHU#2 power

Response Required By: March 10, 2017

Drawing / Spec Reference:

Information Requested:

AHU#1 and AHU#2 take (4) 23.5 amp feeds. The VFD units on site are setup to feed the 4 motor setup, however the rough-in was completed per the drawings with a single feed per the equipment data schedule (ME0003) which consists of a single 2" conduit going from the respective VFD drives to the AHU units.

Proposed option 1: Run the 4 motor loads utilizing VFD cable within the existing 2" conduit to handle the harmonics issues.

Proposed option 2: abandon the 2" conduit and install 4 separate 1/2" EMT conduits with (4) #10 THHN from the respective VFD to AHU.

Option 1 will have the lesser cost impact.

Response:

On a 3/10/2017 project visit, it was noticed that the VFD's were moved closer to each air handler utilizing the roughed in conduit. This modification is acceptable to WTA per the attached email string. WTA does not believe there would have been harmonics problems in the original design as alluded to in the RFI. The single conduit for power from each VFD to each AHU should have been acceptable as indicated.

ARCHITECT'S RESPONSE:

This information is provided as an interpretation of the Contract Documents for implementation. It is not an authorization for change to the Contract Sum or Contract Time. If this information results in a claim for a change to the Contract, the Contractor shall notify the [Construction Manager][Architect] of a change through the change process.

Answered By: Mark de la Fuente, WTA

Date: 3/13/17

Gates, Devin

From: Mark de la Fuente <MdeLaFuente@wmtao.com>
Sent: Wednesday, March 01, 2017 3:06 PM
To: rick.branstetter@geco.com
Cc: dan.wagener@geco.com; Gates, Devin
Subject: Re: Webster ISB AHU # 1 and AHU # 2 RFI

Follow Up Flag: Follow up
Flag Status: Flagged

Rick

As long as they are mounted in such a way that there is adequate clearance, we don't have an issue with moving the drivers.

Thanks

Mark

Mark de la Fuente, P.E., IALD, MIES
Associate, Electrical Project Engineer



7955 Manchester Rd., Suite 125
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O: 314-884-7600
wmtao.com
wtalighting.com

>>> <rick.branstetter@geco.com> 3/1/2017 2:52 PM >>>

Mark,

I just got off the phone with our General Foreman and he stated it may just be easier to move the VFD units next to the AHU units... Is this feasible.



Rick Branstetter
Preconstruction Manager
Phone: 314-678-8053
Main: 314-772-5400
Mobile: 314-280-7477
Fax: 314-678-8353

web: www.geco.com



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From: "Mark de la Fuente" <MdelaFuente@wmtao.com>
To: "rick.branstetter@geco.com" <rick.branstetter@geco.com>, <ddgates@paric.com>
Cc: "dan.wagener@geco.com" <dan.wagener@geco.com>
Date: 03/01/2017 01:47 PM
Subject: Re: Webster ISB AHU # 1 and AHU # 2 RFI

Rick,

Can you send us a cutsheet on the VFD cable you are proposing to use? We will need to start there.

Thanks

Mark

Mark de la Fuente, P.E., IALD, MIES

Associate, Electrical Project Engineer

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>>> <rick.branstetter@geco.com> 3/1/2017 1:17 PM >>>

Devin,

Today we noticed that both AHU # 1 and AHU # 2 take multiple motor feeds (4) 23.5 Amp feeds to be exact. The good news is that the VFD units that showed up are set up to feed the (4) motor set up. The bad news is that we roughed it in per the drawings with a single feed per the Equipment Data Schedule found on sheet ME0003. As of now we have (1) 2" conduit going from the respective VFD drives to the AHU units. We have a couple of options (1) run the (4) motor loads utilizing VFD cable with in the existing 2" conduit to deal with the harmonics issues. The 2nd option would be to abandon the 2" conduits that run from the VFD to the AHU units and install (4) separate 1/2" EMT conduits with 4 # 10 THHN from the respective VFD unit to the AHU units. Both options have a cost impact, the 1st option is the least expensive. Please advise. When need a quick answer to this due to the importance of meeting the start up date.

Rick Branstetter

Preconstruction Manager

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