



## MODULE 06 – MEP & MINI PRESENTATION

One of the many ways DPR determines the amount of risk involved in a project is a thorough review of the design documents. Identifying items with a lot of exposure early helps us prioritize where to focus our attention and how. We pride ourselves as a technical builder in the industry and as such it is important to understand the building's MEP systems.

One of the most unique and challenging pieces of equipment in this project is AHU-1. It has a long lead time, is tied to multiple trades, and can be part of the schedule's critical path when it comes to commissioning. If we don't get the install of a piece of equipment like this right it can expose DPR to more risk and unforeseen costs.

### Part A – AHU-1 Evaluation (50% of the score):

Objective: (2) members (different than others involved in other meet ups) from your team are to prepare a mini-presentation to the owner selling why AHU-1 adds value to the project. Cover the following topics at a minimum:

- Location of AHU-1 and it's connected systems
- Floors/ spaces served
- Equipment operated by/ connected to it
- How it cools/ heats spaces

### Part B – Questionnaire (50% of the score):

Objective: Conduct a detailed study of AHU-1 and answer the below questions.

1. Please provide answers to the following electrical questions.
  - a. What panel and circuit services AHU-1?
  - b. How many amps are allocated for this AHU?
2. Per the feeder schedule provide the wire and conduit size that powers AHU-1.
3. How would the owner be able to track live data for the electrical draw to this AHU?
4. Where are the physical locations the new HWS/R and CHWS/R tie in to the existing Utility Yard/ Boiler Room?
  - a. HWS/R...
  - b. CHWS/R...
5. List the control dampers associated with this AHU.
6. In the event of a power outage in the building will AHU-1 shutdown or keep running?



7. Being able to remove the coils of an AHU is important to the facilities maintenance team. Access to do so is something we coordinate early on.
  - a. Is this a top or side coil pull AHU?
  - b. What note on the drawings gives this away?
8. What are the two plumbing systems that serve AHU-1?
9. Ductwork leaving this AHU is supported by what type of vertical posts – square or round?
10. The IT server room is mainly served by AHU-2, but does AHU-1 also provide supply or pull return air from the same IT server room?

Required Deliverables: Responses to the above questions are due at the time of your mini-presentation, which will be given to you at the 10AM meet up and fall between the following range: 2 - 4:30PM (5-minute presentation and 5-minute Q&A). A USB flash drive shall be turned in containing both the mini-presentation and answers to the above (10) questions.