

## Building 52 OIT Server Cooling Questions and Answers

### Questions Set 1

#### Liebert-1

- EC Fans?

Provide fans per Specification 238123 Computer Room Air Conditioners

- Return air configuration (Front Return w/Grill or Rear return w/ filter box)?

Front Return w/Grill

- Dual-Cooling Air and Chilled water system type?

No

- Condensate Pump?

No

- How long of a cable do you need for the Remote Temperature and Humidity Sensor?

Contractor shall field verify – Estimate length @80ft.

- Extended compressor warranty?

No

- Plenum?

No

#### Liebert-2

- EC Fans?

Provide fans per Specification 238123 Computer Room Air Conditioners

- Return air configuration (Front Return w/Grill or Rear return w/ filter box)?

Front Return w/Grill

- Condensate Pump?

No

- How long of a cable do you need for the Remote Temperature and Humidity Sensor?

Contractor shall field verify – Estimate length @80ft.

- Extended compressor warranty?

No

- Plenum?

No

#### Liebert -3

- EC Fans?

Provide fans per Specification 238123 Computer Room Air Conditioners

- Return air configuration (Front Return w/Grill, Rear return w/ filter box or Bottom Return)?

Rear return w/ filter box

- Condensate Pump?

No

- How long of a cable do you need for the Remote Temperature and Humidity Sensor?

Contractor shall field verify – Estimate length @80ft.

- Plenum?

Yes – supply and return

## Questions Set 2

1.) Who is the facilities Fire Alarm Contactor?

Advanced Cabling 918-893-3444

Referencing Sheet M1 of the drawings;

2.) Note 1, the routing for the CW supply and return piping is shown to be run off of the mezzanine area. As I'd mentioned, during the walk through, this area appears to be extremely congested with existing piping mains. I did not observe a clear method for routing in the area indicated by the drawings. Could this piping possibly be routed in the mezzanine area perhaps?

Field route piping as shown on Drawing M1

3.) Note 2-4, the routing shown on the drawings appears to be simple and somewhat vague. During the walk through, when we did go to the lower level where the MCC-2 is located, I don't recall specific locations being pointed out for the tie-in points for both condensate and make-up water. This was the area that I was referring to during our phone conversation about possibly getting an elevation sheet for indicating specific points for these tie-ins.

Domestic Water will be connected downstream of backflow preventer on Mezzanine level as shown on the walk-thru. Condensate drain will be routed to drain on 1st floor level as shown on the walk-thru.

4.) Lastly, the telephone equipment room, 201B-52 (Server Room) has limited space for removal/installation of the two Liebert units (note 7 on the drawings). Will provisions be made by the facilities, if and when any of the communications racks/shelves may need to be moved?

No

## Questions Set 3

Is there an elevator to the mezzanine area. When we went to the MMC-2 Panel in the area below we went down by ladder.

The mezzanine level in Building 52 is at the Building 24 loading dock level as shown on the site walk-thru.

## Questions Set 4

1. Will the existing electrical feed conductors and circuit breakers that currently feed the existing 10 ton units, including the condenser units need to be replaced, upgraded, or modified to feed the new

10 ton chilled water Liebert and one 10 ton dX Leibert units that will be installed. If so, what are the specifics for those electrical items needing to be replaced (circuit breakers, wire, conduit...).

Design intent is to re-use existing electrical feeders to units listed.

2. What size service will be required to feed the new 20 ton cooling unit?

See Note 4 Drawing M1