Questions & Answers #1-16

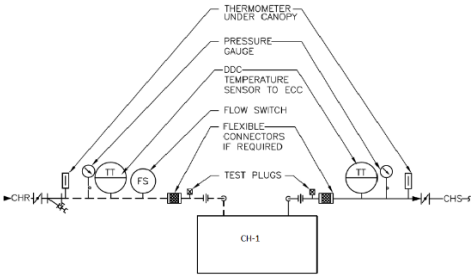
FA2521-17-B-0014, Chiller Motion Picture Lab

1) Question: Is this a tax-exempt project and if so, will the government issue a tax-exempt certificate upon NTP?

   Answer: No this is not a tax exempt project. The government will not be issuing a tax exempt certificate.

2) Question: Drawing M-001, Detail 1: This detail doesn't show many items typically found on chiller connections, to include: flex connects, balance valve, dP connections, strainer with blow down, test plug, drains, etc. Are we to pipe to chiller based on the provided detail?

   Answer: Piping shall be as follows:



3) Question: Same drawing as above: Drawing contains a piping symbol that doesn't show up on the notes and we're not certain what it's supposed to be. Please advise.

   Answer: See detail above

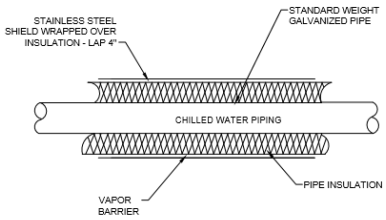
4) Question: Please specify the size (in tons) of the rental chiller required to support the cooling load in the winter. Expected construction would take place in Jan or Feb, possibly as late as April.

   Answer: With construction as late as April, the chiller should be 100 tons.

5) Question: The existing parking bollards make it impossible to get the temp chiller up close to the building. The trailer will have to straddle the grass and the road between the two buildings. Will this be acceptable? If not, please advise where the temp chiller can be parked.

   Answer: As this will be a temporary chiller the location of its placement is up to the contractor. The temporary Chiller should be located as close to the facility as accessible. Utility access should be considered when parking this item.

6) Question: Drawing MC-101, General Note 4 – Stainless Steel lagging is specified, but there is no stainless-steel spec listed in 23 07 00, Paragraph 2.2.8. Please advise on the type of lagging to be used.



Answer:

General Note 4 states: All piping to be provided with stainless steel jacketing with vapor barrier (see detail above).

7) Question: The chiller schedule specifies a 100-ton chiller, but the flow rate and delta T requirements equate to 132 tons of chiller capacity. Please confirm the listed flow and 10-degree delta T is accurate in the chiller schedule.

Answer: See Schedule below:

AIR COOLED PACKAGED WATER CHILLER

UNIT NO.	MFG.	MODEL	TONS	CHILLER DATA					COMPRESSOR DATA					CONDENSER DATA					ELECTRICAL DATA				REMARKS
				TOTAL GPM	TEMP ENT.	TEMP LVG.	MAX PD (FT)	FOULING FACTOR	NO.	TYPE	STEPS UNLOADING	MAX POWER KW	REFRIG	NO. OF FANS	NO OF MOTORS	KW EACH MOTOR	MOTOR RPM	AMBIENT AIR TEMP	VOLT/ PHASE	MCA	MAX FUSE SIZE	
CH-1	TRANE	CGAM100	100	240	54°	44°	34.1	0.0001	4	SCROLL	4	99.3	410A	8	8	9.4	840	95°	208/60/3	443.9	500	1,2

1. SINGLE POINT OF CONNECTION WITH FACTORY MOUNTED DISCONNECT.
2. FACTORY PHENOLIC COATED COILS.
3. PREMIUM EFFICIENCY.*CHILLER MUST EXCEED ASHRAE 90.1 BY 30%*

PUMP SCHEDULE

PLAN MARK	MODEL NO.	SYSTEM	FLUID DATA			PUMP DATA					ELECTRIC DATA			
			FLOW GPM	HEAD FT	FLUID TEMP	TYPE	IMPEL. SIZE	% EFF.	SUCT. SIZE	DISCH. SIZE	VFD YES/NO	MOTOR HP	MOTOR RPM	VOLTS/ PHASE
P-1	4BC	CHW		52	54°	END	9.5"	75%	5"	5"	NO	5	1725	208
P-2	4BC	CHW		52	54°	END	9.5"	75%	5"	5"	NO	5	1725	208

NOTES:
1. BASIS OF DESIGN BELL & GOSSETT.
2. PREMIUM EFFICIENCY.*MEET OR EXCEED TABLE 12-10 OF NEMA MG-1, 2009*

8) Question: The drawings specify the contractor shall provide coordination drawings. There is roughly 30 linear feet of new pipe and we're not sure what there is to coordinate. Please advise is this is still required and what we are to coordinate in a project this small. We're not sure what the deliverables would be on coordination drawings for this project.

Answer: No coordination required.

9) Question: Is there available 480V power to power the temp chiller or will we be required to set a temp transformer? We're not certain we can find a 208V temp chiller.

Answer: No, 480V power is not available. Provide temporary transformer if required to meet voltage requirements of the temporary chiller.

10) Question: The drawings specify for the underground conduit to be demolished back to the panel. This would require saw cutting the concrete inside the mechanical. We will need conduit to run the new power feeds in. Please advise if it's acceptable to demo back to where the conduit comes in the building, cap the unused lines and reuse one of the conduits for the new feeds.

Answer: Demo existing conduits back to where they come in the building and cap. Do not disturb mechanical room floor. Provide new conduits from the switchboard to the outdoor chiller.

11) Question: The solicitation contains a Wage Determination that contains pipefitters as well as pipe layers. All craft touching pipe on this project are pipefitters and not pipe layers. The pipe layer scale is much lower than pipe fitters. Can you advise if the government agrees with this?

Answer: Please review the definitions in the Memorandum of Understanding below to make your own determination.

"Memorandum of Understanding ("MOU") Between UA Local 295 and LIUNA Local 517 re Result of U.S. Department of Labor Investigation of Phase Ill Revitalize KSC Water, Wastewater and Water Lines, Contract NNK11CA40C.

As a result of discussions between the U.S. Department of Labor, UA Local 295 and LIUNA Local 517 during the U.S Department of Labor's investigation into Contract NNK11CA40C, the parties agree to NASA's use of the following Labor Classifications:

Pipefitters: In accordance with the scope of work provided for in the UA Constitution and the Collective Bargaining Agreement for UA Local 295, the Pipefitter classification shall perform all piping work, both inside and outside, with or without slip joints, which includes, but is not limited to. setting the pipe, joining the pipe together, and inserting bolts as required at flanges and pipe connections, with the exception of the outside installation of PVC piping where the piping is pressurized at 20 PSI or less, is gravity fed, utilizes slip joints or glued connections and does not require the use of any tools, with the exception of the use of a small, hand-held PVC cutter.

Pipelayer Laborer: In accordance with the scope of work provided for in the LIUNA Constitution and the Collective Bargaining Agreement for LIUNA 517, the Pipelayer laborer classification may not perform any pipefitting work, with the exception that it may perform the installation of PVC piping outside the utility lines, where the PVC piping is pressurized at 20 PSI or less, is gravity fed, utilizes slip joints or glued connections and does not require the use of any tools to perform the work, except for the use of a small, hand-held PVC cutter for cutting the PVC pipe or other similar pipe material.

This MOU has limited application and applies to Wastewater and Water Line projects, including projects at Kennedy Space Center (KSC), Cape Canaveral Air

Force Station (CCAFS) and Patrick Air Force Base (PAFB)".

12) Question: This project is solicited as a 238220 NAICS code. Are prime contractors to provide a self-performance calc worksheet to verify the minimal 25% self performance?

Answer: Review and follow any instructions identified in FAR Part 52.219-8.

13) Siemens, the manufacturer for the switchboard, has responded to our request to see if we can install a new 500 amp, 3 pole circuit breaker in the switchboard. There is not enough room for the 500A/3P circuit breaker within the existing switch board. Please clarify how the design team would like to address this issue.

Answer: Provide a 500A 3P enclosed circuit breaker in a NEMA 4X stainless enclosure mounted on the outside of the building. Provide (2) sets - 3" conduit with 3 #350 and 1 #1 ground from the switchboard bus to the enclosed circuit breaker. Feeder shall be tapped from the switchboard main bus. Feeder tap installation shall comply with NFPA 70 Paragraph 240.21(B)(5).

14) Which company has the existing DDC Controls at this location (Spec Section: 23 00 00)?

Answer: Controls are maintained by MC2.

15) There is no reference in the drawings or specification regarding any sort of Infection Control Requirements for this project. Can these requirements either be provided, or are there none applicable for this project (Spec Section: 01 35 26 Safety Requirements)?

Answer: Not applicable.

16) What is the existing chiller pipe material that is being called to be demolished (schedule 80 PVC, Cast Iron, etc.) (Spec Section: 23 00 00)?

Answer: Schedule 80 steel.