



State of Utah

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## ADDENDUM #4

Date: August 22, 2007

To: Short Listed Firms

From: Lyle Knudsen, Project Manager, DFCM

Reference: Utah College of Applied Technology  
Haven J. and Bonnie Rea Barlow Tech/Manufacturing Bldg – Design/Build  
DFCM Project No. 07036220

Subject: **Addendum No. 4**

Pages	Addendum	9	pages
	<b>Total</b>	<b>9</b>	<b>pages</b>

**Note: This Addendum shall be included as part of the Contract Documents. Items in this Addendum apply to all drawings and specification sections whether referenced or not involving the portion of the work added, deleted, modified, or otherwise addressed in the Addendum. Acknowledge receipt of this Addendum in the space provided on the Bid Form. Failure to do so may subject the Bidder to disqualification.**

**4.1 SCHEDULE CHANGES – There are no changes to the Project Schedule.**

**4.2 GENERAL ITEMS: Answers to Questions**

**Q:** The pages references below are to the pages in the Architectural Program document prepared by HFS Architects found in the State I documents of this solicitation.

***The program furnished in phase 1 was a preliminary document. Make sure you are referencing 01 August 2007 document.***

**4.3 Q:** What is the site for the building? The site plan on page 6 shows a location different than the site plan issued at the end of the document.

***In the 01 August 2007 document the correct site is shown on pages 10 through 13. The site was changed from the earlier document.***



- 4.4 Q: Is a parking lot to be constructed as part of the project? A statement on page 15 indicates there may be a parking lot constructed in the future, but the site plan at the end of the document shows a new parking lot north of the new facility.

***The 01 August 2007 document refers to the new service yard compound. This is to be provided. It also refers to a new parking lot to the south. This is an error. The parking to be included is a few spaces for visitors and handicap.***

- 4.5 Q: Where are the utilities to be picked up from? Nothing in the document addresses utilities.

***The survey is on the web page. The contractor must verify the information and have utilities blue staked.***

- 4.6 Q: On page 29, it states "Listed below are the minimum required structural design and material strengths." However, no data is given. What are the design requirements?

***Refer to the 01 August 2007 document and the outline specifications that have been furnished.***

- 4.7 Q: Is there an existing emergency generator to be removed? Page 34 mentions an existing generator to be removed and delivered to WSU.

***In the 01 August 2007 document the generator requirements are given. The reference to an existing generator was an error.***

- 4.8 Q: On page 37, the first sentence appears to be incomplete. What is the sentence supposed to read?

***In the 01 August 2007 document the problem appears to have been corrected.***

- 4.9 Q: Furnishings are listed in the building requirements room-by-room descriptions. Are they to be furnished as part of this contract? For example, on page 59, the Engine Re-build area lists furnishings as benches, engines, and waste cans. Are we to provide such things as the engines?

***Movable furnishings are to be furnished by the DATC. They are not part of this budget or scope of work.***

- 4.10 Q: Several of the room-by-room descriptions, such as page 59, state that doors are "not required". Is this a correct statement? If so, please explain how access is to be provided to those rooms.

***The 01 August 2007 document the individual space drawing shows a man door and two large openings. These doors would vary according to various design configurations. It is not intended that we have spaces that are inaccessible.***

**4.11 Q:** Page 8: Please clarify what potential exterior outdoor spaces will attract large gatherings.

*No reference to exterior space on page 8. No large gathering spaces are envisioned.*

**4.12 Q:** Page 10: When will the geotechnical report be provided?

*It is on the web.*

**4.13 Q:** Page 10: When will the topographic survey be provided by DFCM? Will the survey include points of connections and locations of all existing utilities? For example: Gas, Sewer, Water, Power, and Storm Drain.

*See 4.5*

**4.14 Q:** Page 18: There was no mention of a requirement for the Composite Material Technology structure of 11,000 sf. Are we correct to assume that this is a carry over from another project not required in this project?

*Composite Material Technology is to be located in the existing building. It is not part of this scope.*

**4.15 Q:** Page 28: Will a 4" thick slab on grade be sufficient for the anticipated loads even with reinforcing steel in two directions?

*Your structural consultant should determine the slab design.*

**4.16 Q:** Page 29: No design criteria is provided. For example; roof snow load, snow importance factor, flat roof snow loads. Will these be provided or should we design to loads anticipated for the Davis ATC site?

*See 4.2. Your structural consultant should verify the information and design to the appropriate loads.*

**4.17 Q:** Page 31: Based on discussions on Monday we understand that the heating system, domestic hot water, and cooling systems will be stand alone and not tied into the college's central systems. Please confirm.

*Correct*

**4.18 Q:** Page 33: Must a Square D "Powerlogic" type digital meter required or can equivalent metering device be utilized?

*Yes, it must be equivalent quality, capability and compatibility.*

**4.19 Q:** Page 33: Mechanical systems commissioning; Will DFCM's commissioning authority provide a review of our design during the design phase?

*Yes*

**4.20 Q:** Page 34: The requirement to remove the existing generator and deliver to WSU for future use in another location is not required per discussions on Monday. Please confirm.

*Correct*

**4.21 Q:** Page 37: From our discussions Monday, the security system will be tied through communication lines and monitored by the campus police department. Please confirm.

*The tie-in is correct. There is not a campus police department. It must connect to separate dialer for notification.*

**4.22 Q:** Page 41: Are we to provide an electrical stub-ups through the roof for the future Photo Voltiac panels?

*No*

**4.23 Q:** Page 49: The overhead crane, during discussions it was indicated that two cranes were required. One for the truck bay and one for the engine repair bay. Please confirm? Please confirm that the 5 ton crane will have access over all of the truck bays.

*Spaces could be arranged such that one crane could service both areas. At least three truck bays and the rebuild areas.*

**4.24 Q:** Page 49: Under furnishings, please provide the size for the storage cabinet, oil filter crusher, and electric lifts.

*These are furnished by owner but utility connections must be made.*

**4.25 Q:** Page 49: Please provide the anticipated CFM for the compressed air system and anticipate number of personnel utilizing the system at the same time.

*Consultant should analyze the requirement.*

**4.26 Q:** Page 49: During the discussions on Monday the use of radiant tube heaters was discussed and appears that with the large trucks this type of system may not be recommended due to shadows cast by the trucks. Please confirm.

*The system should be analyzed by your mechanical consultant.*

4.27 Q: Page 49: What power requirements do you anticipate for the two new welders?

***It must be wired for both two phase and three phases up to 100 amps. Your consultant should review and confirm the requirements.***

4.28 Q: Page 49: Air circulation, it was noted in the discussions that Candy Cane exhausts were not requested. However; the program requirements specify Candy Cane exhausts. Please clarify

***This item, as many others questioned, was discussed at length in the August 13<sup>th</sup> meetings. The decision was that candy canes are not desired.***

4.29 Q: Page 53: Special Construction: During the discussions on Monday, the User preferred a walk-in service pit. Please provide their recommended size.

***One 30 foot walk-in pit. Pit can be ladder access.***

4.30 Q: Page 53: Will the Alignment Machines be mounted in a pit as currently exists or will the new machines be of a different configuration. Please provide any technical data for the alignment machines.

***The alignment equipment will not be mounted in a pit. Owner furnished and installed. Three phase power must be provided by contractor.***

4.31 Q: Page 55: Plumbing: During discussions it was noted that an oil sand separator be provided. Please confirm.

***All installations must meet the current codes.***

4.32 Q: Page 59: The engine rebuild area program requires no doors. During discussions it was noted that a large door is required for fork-lift access. Please clarify.

***It was made clear on August 13 that fork-lift access is required. Engine storage area must have fork-lift access.***

4.33 Q: Page 59: Furnishings: The program requirements indicate 15 engines but no size is provided. Please clarify.

***Movable furnishings are not part of the construction budget or the scope of work.***

4.34 Q: Page 83: CNC Machine Shop shows an adjacency to locker rooms however; no locker room size is indicated in the program. Please provide the recommended size and number for the lockers.

***160 - 1' x 3' stacked lockers for men's locker room. 40 - 1' x 3' for female. Machine tool requires 14" wide by 19" deep x 24", units stacked.***

- 4.35 Q: Page 105: The industrial maintenance shop: During discussions it was noted that snorkel vents are required for the soldering stations and a grounding bar was also to be provided. Please confirm.

*Meet the code requirement for ventilation.*

- 4.36 Q: The program lists a substantial amount of equipment (both "fixed" and "NIC") that will require electrical connections. In order to properly plan for and price the electrical distribution, we will need an equipment list with electrical requirements (volts, amps) and relate it to each of the spaces.

*We will do the best we can. Not all equipment is decided and may take some educated guessing on both parties. Provide single and three phase power.*

- 4.37 Q: The program in many locations refers to "Campus Standard" for systems and equipment. Please provide a copy of the Campus Standard.

*As was discussed August 13, a written Campus Standard does not exist. You must go by the Outline Spec, DFCM Guidelines, what you can observe and what you can discover. This will take some effort on each team's part.*

- 4.38 Q: Program (pg 32) indicates that exterior light fixtures are to match campus standard. What are the brands and models of fixtures to match?

*We desire to go to a "black sky" fixture if possible. We have to meet the state's high performance building program standards.*

- 4.39 Q: Program (pg 32) indicates that telephone, fiber optics, cable TV, fire alarm and BMS network is distributed through the tunnel and comes from the Admin. and Library. Is there an existing tunnel system? If not, how are these distributed and where do they come from? Where is the Admin. Building and Library?

*As was discussed in the August 13, meeting, a tunnel does not exist. Services must be brought from the existing administration area to the new building by way of new raceways. Contractor is responsible for copper and fiber between the buildings including terminations.*

- 4.40 Q: Program (pg 32) says that Rocky Mountain Power (RMP) will serve the new building. Please confirm whether it will be RMP or Kaysville City power?

*Kaysville City power*

- 4.41 **Q:** Program (pg 34) indicates that there is an existing Rauland campus master clock. Confirm that this is the case, and provide the location for the master clock so that it can be tied in.

***The paging clock, notification and secondary motion are all a part of the same system. Marshal Industries has provided the system.***

- 4.42 **Q:** Program (pg 34) requires the fire alarm system to match existing and to report to the campus master fire alarm. What brand is the existing system and where is the campus master fire alarm located?

***Auto dialer through the phone lines.***

- 4.43 **Q:** Program (pg 34) requires only door monitoring on exterior doors for the security system. Are card readers or cameras also required? If so, where? Is there a particular brand of security system the campus uses so that we can match?

***CSI integrated controls, motion monitoring only. HID I class system access controls.***

- 4.44 **Q:** Program (pg 35) indicates that telcomm is to be per campus standards. Provide the campus standards.

***Telcomm requirements are for raceways by contractor and wire by the owner. The program description is correct. Connections of systems between buildings require the raceways to be in place.***

- 4.45 **Q:** Program (pg 35) indicates that telecomm is to tie to Admin, Library and Heat Plant. Where are these located on the campus? If these do not exist, where does the telecomm tie to?

***To be tied-into main computer room. Refer to 4.39***

- 4.46 **Q:** On many DFCM projects, the voice and data cabling is designed and installed by the DFCM IT group and tracked under a separate budget. Is this the case with this project, or is the proposing team to include voice/data cabling in the design and cost proposal?

***See above***

- 4.47 **Q:** Please confirm that audio/visual systems are part of the construction budget and to be included as part of the design and cost proposal. If so, confirm what AV equipment and cabling is to be included as part of the proposal. Or, is the proposal to include rough-in (empty conduit) only?

***This is redundant with the above question. Provide power.***

**4.48 Q:** Will any of the shops be using natural gas vehicles (this requires a different classification in the NEC)?

*It is not anticipated that the programs will use natural gas.*

**4.49 Q:** Is a single Ply roof acceptable?

*The agency expressed a preference for a BUR roof. Other options will be considered and may be acceptable. Be aware of the high wind conditions at the site.*

**4.50 Q:** Are sectional doors acceptable in lieu of colling overhead doors?

*If they are as durable and can resist wind damage equally, they will be considered.*

**4.51 Q:** Will you consider roof top mechanical units in lieu of chilled water cooling?

*Yes*

**4.52 Q:** Does the Machine area require a two ton crane.

*Yes*

**4.53 Q:** What is the status of the survey?

*Previously answered*

**4.54 Q:** Could the program be revised to clarify that furnishings listed are by owner (NIC)?

*Previously answered*

**4.55 Q:** Would it be acceptable to incorporate by reference the outline specifications provided to us by DFCM and note any instances where our proposal differs from them? We think this would provide more for the selection committee than if we prepare our own outline specifications with only minor differences here and there from what you've already developed.

*Yes*

**4.56 Q:** Would the following substitution to the outline specifications/program be permissible? Ultra-high-performance clear insulated glazing rather than tinted,

*It would be considered depending on the glass performance and approval by Curtis Clark, State Energy Manager.*

**4.57 Q:** Specifications: Where are two-track horizontal sliding visual display boards (spec. Section 10101) located?

*It appears to be an error in the program.*

**4.58 Q:** What mechanical and electrical outline specifications apply? (These sections were not included with the outline specifications provided.)

*DFCM Guidelines.*

**4.59 Q:** Our understanding from discussions with Kent Thorsted and Brent Peterson is that DATC will purchase the cylinders and do the keying for locksets. This appears to vary from what is written in the outline specifications. Please confirm.

*Owner will purchase the cylinders and do the keying for locksets.*

**4.60 Q:** A storage room in the diesel partner area has been requested. Should this be added to the program, and if so, how large should this room be?

*Take the existing storage room and add the percentage of increase for the new area.*

**4.61 Q:** Is shelving benches and tables part of the construction scope of work?

*Benches and tables are movable equipment and therefore not part of the construction scope. Shelving that is built in (such as the metal storage racks in Machining area) is part of the contract.*

**End of Addendum #4**