University of South Carolina
Project Name: UTS MOD Closet Electrical Upgrades - Various Buildings
Project Number: FP00000233
Project Manager: Pete Fisher

## Addendum Number Two

Date: August 30, 2019
From: Belka Engineering Associates, Inc.
7 Clusters Court
Columbia, SC 29210

To All Bidders:
The following items add to, modify, clarify or otherwise alter the Drawings and/ or specifications and will be a part of the Contract Documents. Where a portion of the Drawings and/or specification is added to, modified or otherwise altered, the portion not so affected shall remain. Bidder shall include all effects that these items may have on this proposal.

Acknowledge receipt of this Addendum in the space provided in the Bid Form. Failure to do so may subject Bidder to disqualification.

This addendum consists of 4 pages and the following attachments:

- Revised Drawing E1.
- Revised Drawing E2.
- Revised Drawing E3.
- USC IT Blackout Dates Schedule


## General Notes:

Construction work shall be conducted during black out periods - see attached schedule.

## Clarifications from Contractor's Questions During Bid Period:

1. Q:Can the construction period for Currell Annex scope be extended due to generator lead time?
A: Yes, the scope construction period shall extend from 90 days to 150 days (all buildings).
2. Q: Can existing data racks be without power at any time?

A: No. Contractor-furnished portable generators shall be used to provide temporary power for transferring of loads. Existing rack mounted UPS units have minimum run time - Coker and Humanities, approximately 30 minutes; Currell Annex 5 to 10 minutes.
3. Q: In the existing main electrical room at Coker, the space above existing panels is limited with existing HVAC piping. How will new electrical conduits be run?
A: Wall penetrations may be made below existing HVAC piping and surface conduit be wall mounted. An alternate suggested conduit routing is shown on attached revised drawing E1.
4. Q: Does the removal of the existing generator at Currell Annex require delivery to USC surplus location?
A: Yes, Contractor shall deliver existing generator with fuel tank to 743 Greene Street. Coordinate with Frank Aycock of USC (803) 777-4217.
5. Q: Where is the recommended location for temporary portable generator for power transfer?
A: At Coker, in planting bed outside east side of building. Portable cord can be run through basement mechanical room (across the corridor from IT room) and up fresh air intake shaft.
At Humanities, in planting bed outside west side of building. Portable cord can be run upstairs and through exterior doorway.
At Currell Annex, adjacent to proposed new generator location in service courtyard. (All of these locations shall be coordinated with the USC project manager and shall provide all applicable safety provisions).
6. Q: Will the existing remote annunciator panel be replaced and if not one, where will the new panel be located?
A: There is not an existing generator remote annunciator panel. Provide new generator remote annunciator panel compatible with generator and locate on interior wall adjacent to building's main entrance. Coordinate exact location with existing furniture layout and USC project manager.
7. Q : Is the generator natural gas or diesel?

A: Diesel.
8. Q: Is a new fuel tank required if the unit is a diesel?

A: Yes. 48-hour capacity. Provide full tank of fuel for testing and immediate operation.
9. Q: Will a 60 kW unit be sufficient since only a $200-\mathrm{amp}$ breaker is required ( 60 kW is rated at $205 \mathrm{amps}, 65 \mathrm{~kW}$ is rated at 225 amps )?
A: Agree. Generator shall be changed from 65 kW to 60 kW and automatic transfer switch from 225 amps to 200 amps . See revised drawing E2.
10. Q: What are the requirements for generator enclosure?

A: Weatherproof enclosure as specified in Specification Section 263213, paragraph 2.9, on pages 6 and 7 .

## Revisions to Drawings:

Drawing E1 -

1. In both Single Line Diagrams, change Existing Loadcenter "B" to single phase, 3 wire in lieu of 3 phase, 4 wire.
2. In both Single Line Diagrams, change the feeder for Existing Loadcenter "B" to 3\#3, $1 \# 6 \mathrm{G}$. in existing $1-1 / 4 " \mathrm{C}$. in lieu of $4 \# 3,1 \# 6 \mathrm{G}$.
3. In Renovated Power Single Line Diagram, add note adjacent to "Provide 75kva transformer" that reads, "Use existing concrete housekeeping pad in center of room for this transformer. Secure to transformer to floor." See attached drawing E1.
4. In Renovated Power Single Line Diagram, add note adjacent to "Provide 200 amp disconnect switch" that reads, "Mount switch on Unistrut rack adjacent to transformer."

Drawing E2 -
5. Change layout of new generator as shown on attached revised drawing E2 (rotate and reposition for future equipment considerations - coordinate with USC project manager).
6. Provide new 48 -hour, skid mounted fuel tank with generator.
7. Change generator rating from 65 kW to 60 kW and automatic transfer switch from 225 amps to 200 amps . Change associated conductors/conduits as shown on attached revised drawing E2.
8. Existing generator is 30 kW , not 45 kW as previously shown.

Drawing E3 -
9. In In both Single Line Diagrams, change Existing Loadcenter "B" to single phase, 3 wire in lieu of 3 phase, 4 wire.
10. In both Single Line Diagrams, change the feeder for Existing Loadcenter "B" to 3\#3, $1 \# 6 \mathrm{G}$. in existing $1-1 / 4 " \mathrm{C}$. in lieu of $4 \# 3,1 \# 6 \mathrm{G}$.
11. In both Single Line Diagrams, add existing 100 amp disconnect switch ahead of transformer.
12. In Renovated Power Single Line Diagram, provide a 90 -amp, 3 pole breaker in existing main generator-backed panel and conductors/conduits as shown on attached revised drawing E3.

## Revisions to Specifications:

Section 263213 - Engine Generators
13. In paragraph 2.2 on page 3 , change generator rating from $65 \mathrm{~kW}(80 \mathrm{kVA})$ to 60 kW ( 75 kVA ). Typical of two places in paragraph.
14. Add Item B to paragraph 2.6, FUEL SYSTEM, that states as follows:
B. Fuel Sub Base Tank: Provide a double wall sub-base tank constructed to meet all local codes and requirements. A fuel tank base of 48 -hour capacity shall be provided as an integral part of the enclosure. It shall be contained in a rupture basin with $110 \%$ capacity. The tank shall meet UL142 standards. A locking fill cap, a mechanical reading fuel level gauge, low fuel level alarm contact, and fuel tank rupture alarm contact shall be provided.

1. Provide 5 Gallon Fuel Fill spill containment (without exception).
2. Configure height of tank fuel so generator does not require a maintenance platform. Bottom of generator housing shall be no greater than 24 inches above pad.
3. Provide full tank of fuel for testing and immediate operation.

## End of Addendum Two





|  |  |  | 6 week session 1） | authentication，Networking |
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| $\nabla_{0}$ July 8， 2019 12am | July 10， | 2019 11：59pm | OIRA Summer Freeze | Banner Data Warehouse |
| 吅 July 12， 2019 12am | July 12， | 2019 11：59pm | Summer exams（3 week session 3） | Blackboard／Adobe Connect／Presenter，all Authentication，Networking |
| （task＿lis July 16， 2019 12am sysparm | July 18， | 2019 11：59pm | Fall Fee Assessment | Banner and supporting systems／servers，all Authentication |
| （／sp？August 2， 2019 12am id＝sc＿hc | August 2 ， | 2019 11：59pm | Summer exams（6week session 2／9 week／full Summer session） | Blackboard／Adobe Connect／Presenter，all Authentication，Networking |
| ：三 August 3， 2019 12am （task＿lis | Aug 4， 2 | 2019 11：59pm | Fall Hiring | PeopleSoft HCM and supporting systems／servers， Networking |
| sysparm．August 10， 2019 12am IN－5，3，4， | August 11 | ， 2019 11：59pm | Fall Hiring | PeopleSoft HCM and supporting systems／servers， Networking |
| ```August 13, }2019\mathrm{ 12am (report_l jvar sele``` | August 15 | \＄， 2019 11：59pm | Fee payment deadline | Banner and supporting systems／servers，all Authentication |
| （i）August 17， 2019 12am | August 21 | ， 2019 11：59pm | Move－in，start of semester | Networking，all Authentication |
| $\begin{aligned} & \text { (\$pa_das August 17, } 2019 \text { 12am } \\ & \therefore= \end{aligned}$ | August 18 | \＄， 2019 11：59pm | Upstate，Aiken and Beaufort Move In | Banner and supporting systems／servers，all Authentication |
| （sysappr August 21， 2019 12am sysparm． | August 29 | ， 2019 11：59pm | Beginning of Classes／Drop for Nonpayment | Banner and supporting systems／servers，all Authentication，Networking，Blackboard／Adobe Connect／Presenter，Desktop Engineering |
| October 15， 2019 12am ：三 | October 15 | 5， 2019 11：59pm | Early Decision Admission application due | OIM，Banner Data Warehouse |
| （task＿lis1 October 23， 2019 12am | October 25 | 5， 2019 11：59pm | OIRA Fall Freeze | Banner Data Warehouse |
| $\qquad$ | November | 15， 2019 11：59pm | Graduate／Undergraduate Registration | Banner and supporting systems／servers， Networking，all Authentication |
| sysparm．${ }^{\text {Vovember 12，} 2019 \text { 12am }}$ | November | 14， 2019 11：59pm | Spring Fee Assessment | Banner and supporting systems／servers，all Authentication |
| Vovember 15， 2019 12am | November | 15， 2019 11：59pm | Honors Admission application due | OIM，Banner Data Warehouse |
| －December 1， 2019 12am | December | 1， 2019 11：59pm | Freshman Admissions application due | OIM，Banner Data Warehouse |

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