



ADDENDUM 1

November 16, 2023

Perinatal Research Facility – Power, HVAC, Boiler Upgrades / PN 23-110889

CHANGES TO DRAWINGS:

(see revised drawing sheets which are attached to this addendum)

1. M-0.1 – Added Fan Schedule
2. M-0.2 – Updated Louver Schedule
3. M-0.4 – Added Wall Exhaust Fan Diagram
4. M-0.5 – Updated Control Matrices
5. M-0.6 – Updated Ph-1 Control Diagram
6. M-1.0 – Removed Existing Duct Humidifier and all associated low pressure steam piping
7. M-1.0 – Added Chilled Water supply and return piping to fan coil unit in boiler room
8. MD-2.0 – Revised drawing notes
9. M-3.0 – Located Exhaust Fan and Louvers on enlarged boiler room plan
10. M-3.1 – Revised plans to remove humidifier piping relocation from scope
11. E-0.1 – Added Fan Coil Unit to mechanical equipment schedule
12. E-0.2 – Emergency Generator power scope now shown as Bid Alternate 1
13. E-0.3 – Heat Trace and New Exhaust Fan added to panel
14. E-2.0 – Heat Trace Circuit added
15. E-3.0 – New Circuits shown

CHANGES TO SPECIFICATIONS:

(see modified or added specification sections attached to this addendum)

1. Modified 00 01 00 – Table of Contents
2. Added 00 43 23 - Bid Alternate Form
3. Added 01 23 00 - Alternates
4. Added 23 00 05 – Basic Mechanical Requirements
5. Added 23 05 48.13 - Vibration Controls
6. Added 23 34 23 – HVAC Power Ventilators

7. Added 23 51 13.16 – Vent Dampers
8. Added 23 51 23 – Gas Vents
9. Added 23 52 33 – Water Tube Boilers
10. Added 23 76 00 – Evaporative Air Cooling Equipment
11. Modified 23 73 43.19 – Outdoor Custom Air Handling

CHANGES TO SPECIFICATIONS CONTINUED:

(Delete the following specification sections which are not used)

1. Deleted 23 52 00 – Heat Boilers
2. Deleted 23 30 00 – HVAC Air Distribution
3. Deleted 23 40 00 – HVAC Fans
4. Deleted 23 70 00 – Central HVAC Equipment

SUPPLEMENTARY INFORMATION:

1. See attached sign-in sheet for Mandatory Pre-Bid Meeting and Tour that took place on 11/6/23 at the project site.
2. See attached Q Fever Information Overview for researchers (and others) working in the Perinatal Research Facility.
3. See attached PRF Donning, Doffing & PPE Process. All construction personnel for this project entering and exiting restricted portions of the PRF facility need to strictly adhere to these safety protocols at all times.
4. The listed documents below are attached and provided by the CU Anschutz Occupational Health section of the Environmental Health and Safety Department. These documents are being provided for contractor information.
 - a. PowerPoint Presentation – Q Fever Surveillance Program
 - b. Respirator Medical Evaluation Questionnaire
 - c. Initial Respirator Clearance
 - d. Initial Medical Surveillance Questionnaire
 - e. Contractor PRF Disclosure
 - f. Appointment Form

END OF ADDENDUM 1

(This addendum consists of 2 pages plus attachments)

OCCUPATIONAL HEALTH Q FEVER EDUCATION

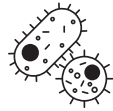


Environmental Health and Safety

UNIVERSITY OF COLORADO
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The following is an overview of Q Fever information for researchers working in the Perinatal Research Facility.
Contact occupational.health@cuanschutz.edu if you have any questions.

WHAT IS Q FEVER?



- Q Fever is zoonotic rickettsial disease caused by the bacterium *Coxiella burnetii*
 - *C. burnetii* can reach high concentrations in animal tissues, especially placenta and other products of conception
 - *C. burnetii* is most commonly associated with sheep, but other animals can be carriers.
 - **Acute**
 - 5 out of 10 people infected with *C. burnetii* will get sick
 - Illness develops 2 to 3 weeks after exposure to the bacteria
 - **Chronic**
 - Develops months or years following initial Q fever infection
 - Can be deadly if not treated
 - Risk factors: heart valve disease, blood vessel abnormalities, weakened immune system, pregnancy
- **Transmission** to humans occurs by:
 - Airborne dissemination of *C. burnetii* through direct contact with infected animals
 - Ingesting contaminated food or breathing in dust that has been contaminated by infected animal feces, urine, milk, and birth products that contain *C. burnetii*
- **Signs and symptoms of Q Fever**
 - High fever
 - Sore throat
 - Chills, sweats
 - Non-productive cough
 - Muscle pain
 - Body discomfort
 - Fatigue
 - Severe headache

IN THE EVENT OF AN EXPOSURE/SYMPTOMS



- When working around sheep areas, it is important to remain vigilant with a high index of suspicion on potential signs and symptoms of Q fever.
- Report any symptoms to Occupational Health
 - **(303) 724-9145**
- Schedule an appointment with Occupational Health
 - Consult and possible blood draw

SURVEILLANCE REQUIREMENTS



- Initial Surveillance:
 - Submit Initial Medical Surveillance Questionnaire
 - Make appointment with Occupational Health for initial blood draw to establish baseline serology
 - PPE education and training
 - N95 fit testing
- Annual Surveillance:
 - Submit Annual Medical Surveillance Questionnaire
 - Annual blood draw
 - PPE education and training
 - N95 fit testing
- When exiting the program
 - Exit Q Fever titer one year after last entry into PRF

BUILDING INFORMATION



- Facility access is controlled via electronic badging
- **Only one approved entry & exit point**
 - Entry and exit from the rear door or any other entryways are forbidden
- Rear door access is limited to a few PRC and Facility staff for the purposes of delivery or maintenance activities

PPE AND PRECAUTIONS



- Traffic patterns marked by signage and donning/doffing locations must be adhered to
- Adherence to BSL-3 practices is essential during necropsy and birthing
- **Required PPE:**
 - Respiratory protection
 - Eye protection
 - Disposable gowns
 - Gloves

Perinatal
Research
Facility Map



occupational.health@cuanschutz.edu



<https://research.cuanschutz.edu/ehs/home/divisions/occupational-health>



(303) 724-9145



Facilities Management PRF Donning, Disinfecting and Doffing PAPR Procedure

Respiratory protection is always required in the PRF restricted animal area, even if there are no animals present.

DON – Bring Clorox Bleach germicidal wipes, 2 pairs of clean gloves and this instruction sheet into the bathroom.

Before putting on (donning) the PAPR, clean and inspect it. Put on gloves, wipe down or slide on a new protective sleeve over the breathing tube and secure the ends. Wash gloved hands. Check that there is a replaceable protective shield over the helmet's visor.

Before entering the restricted area, don the PAPR while sitting on the bathroom bench to help with the belt. Place the battery on the belt so you can readily see the battery light. If you are right handed, put it on your left side.

If you are wearing a negative pressure respirator, put on the respirator before putting on the bonnet.

DOFF - Exit the restricted area. In the restroom carefully remove the PPE. Do not shake it. Discard after each use. Remove it in this order: 1st Bonnet. 2nd Gown. 3rd Booties. 4th Gloves. Wash hands well. Put on clean gloves.

Contact time with the Clorox Bleach germicidal wipes is critical. While the PAPR motor blower unit is "ON" thoroughly wipe down all the PAPR components three times using a new wipe each time. Allow liquid from each wipe to stay on the PAPR surface for at least 1 minute for a total of 3 minutes of liquid contact time.

Before removing the PAPR, have your co-worker use the germicidal wipes to clean the exterior surface of your PAPR (front, back and sides of the helmet and white shroud). Wipe the entire exterior PAPR surface down from the top of helmet to the bottom of shroud with Clorox Bleach germicidal wipes. Never use a solvent to clean a PAPR.

If you exit alone, wipe down the PAPR in front of the mirror to see that you use overlapping strokes. See above.

Wipe down the exterior of a negative pressure respirator with Clorox Bleach germicidal wipes before removing it.

Sit on the bathroom bench, take off PAPR belt, remove motor blower unit and battery. Wipe down the belt, motor blower unit, battery and the other exposed surfaces (breathing tube cover, power cord, the hard shell of cartridges) with Clorox Bleach germicidal wipes using 3 wipes and ensuring a total of 3 minutes of germicidal contact time.

Turn off PAPR. Take off helmet. Wipe down interior of the PAPR helmet and shroud with the disinfectant wipes.

Wipe down all the interior & exterior components with paper towels dampened with water. Wipe dry. Never place or submerge any PAPR components in a liquid or under the faucet.

Inspect each piece of equipment for damage or wear. Look for signs of cracking, drying, fading, and/or fogging.

Remove gloves. Wash hands thoroughly before leaving the restroom.

Neatly store the PAPR in the PAPR cabinet.

Bag cartridges for reuse and update the information on the label.

Charge batteries according to the table on the laminated sheet.

Contact Nancy Hostetler (4-1821) immediately in the case of damaged equipment.

Mandatory Pre-Bid Sign In

11/6/23

PERINATAL RESEARCH FACILITY POWER HVAC BOILER UPGRADES / PN23-110889

Time	Name (First)	Name (Last)	Email	Phone	Company Name
11/6/2023 9:48	Phil	Ackerson	Phil@trygggroup.com	(970) 556-2066	Tryg Critical Solutions
11/6/2023 9:54	Jim	King	jimking@rhinotrax.com	(303) 682-9906	Rhinotrax Construction
11/6/2023 9:55	Michael	Jennings	mjennings@upmmechanical.com	(970) 397-3451	UPM mechanical
11/6/2023 9:55	Darren	Sandhoff	info@rhinotrax.com	(303) 682-9906	Rhinotrax
11/6/2023 9:55	Peter	Cosmas	special.projects@ghphipps.com	(303) 929-3838	GH Phipps Construction
11/6/2023 9:55	Dave	Harper	dharper@gbabuilders.com	(303) 829-8890	GBA Builders
11/6/2023 9:56	James M	Bohks	jimb@reliantchoice.com	(303) 888-5910	Reliant Mechanical Services
11/6/2023 9:57	Kevin	Muldowney	denverbids@weoneil.com	(303) 238-7900	W.E. O'Neil Construction
11/6/2023 9:58	Chad	Van Dyke	chadv@meritelec.com	(303) 710-1691	Merit Electric
11/6/2023 10:12	Cody	Reidy	c.reidy@trygcs.us	(720) 937-0589	TRYG Critical Solutions LLC
11/6/2023 10:28	Sean	Kelley	skelley@weoneil.com	(610) 425-0248	W.E. O'Neil
11/6/2023 10:28	Kyle	Crowley	kyle.crowley@equipmentsshare.com	(720) 614-6677	EquipmentShare
11/6/2023 10:00	Quincy	Scott	quincy.scott@hpmcontracting.com	(720) 557-3859	HPM Contracting