ADDENDUM NO. 2



Project Designation: 20011 – Intermountain Packing – Tenant Improvement

For: Intermountain Packing Date: May 6, 2021

This Addendum applicable to work designated herein shall be understood to be and is an Addendum and as such shall be part of and included in the Contract.

Failure to acknowledge receipt of this Addendum on the bid proposal form may result in rejection of your bid.

Specification Items:

1. Section **08 7100** Door Hardware.

- a. See the attached Door Hardware Sets for door in the Tenant Improvement Drawings.
- 2. Section **23 0514** Variable Frequency Drive Systems added to the Project Manual. See the attached section.
- 3. Section **23 0995** Sequence of Operations for HVAC Controls added to the Project Manual. See the attached section.
- 4. Section **23 0997** Gas Detection System added to the Project Manual. See the attached section.
- 5. Section **23 2112** Steam and Condensate Piping added to the Project Manual. See the attached section.
- 6. Section **23 2115** Steam and Steam Condensate Specialties added to the Project Manual. See the attached section.
- 7. Section **23 0768** Stem Supply and Condensate Return Piping Insulation. Modify the following paragraph to read:
 - 3.1. Installation
 - C. **Piping located in Process areas** shall be insulated as indicated above except the thickness shall be determined according to the worst weather extremes expected. The insulation shall then be protected with one of the following weatherproof finishes as indicated on contract drawings:

Prior Approvals:

- 23 0933 Temperature Controls Subcontractors: Curtis Electric, ATS Inland NW
- 23 2115 Steam and Condensate Specialties: ARI.
- 23 2116 Hot Water Heating Specialties: Thrush, Titan Flow, Miljoco, IMI Flo Design, Taco
- 23 2123 Pumps: Patterson, Taco
- 23 2126 Split System A/C Units Daikin
- 23 3400 Exhaust Fans: Aerovent, Twin City
- 23 3713 Air Inlets and Outlets: Pottorff
- 23 4146 Air Curtain: MARS Air
- 23 5134 Flues and Fresh Air Intake: Metal Fab



Mechanical Items:

- 1. Reference sheet M1.1 Area 1 Mechanical Floor Plan
 - a. Dry Storage 102 gas sensor shown for EF-18 shall be Honeywell E3 Point as per Section 23 0997 attached.
 - b. Loading Dock 103. Exhaust Fan EF-17 shall also be controlled from Honeywell E3 Point Gas Sensor.
- 2. Reference sheet **M1.3** Mezzanine Mechanical Plans
 - a. Detail A Shall be titled "STEAM PRESSURE REDUCING VALVE DETAIL".
 - i. Pipe from relief valve shall vent through roof.
 - b. Detail B Applies only in Process Areas where high pressure wash down will occur.
- 3. Reference sheet **M2.1** Large Scale Boiler Room
 - a. Large Scale Boiler Room Just East of Grid A/1 and South of Grid B/1. Note at outside louvers shall be note 26.
 - b. Plan notes 26 shall read "...(2) combustion air louvers with motorized dampers in exterior wall...".
- 4. Reference sheet **M3.1** Mechanical Details and Diagrams
 - a. Detail T Combustion air louver detail shall include motorized dampers.

Electrical Items:

- 1. See revised Sheet **E1.1** Area 1 Lighting Plan.
 - a. Added and relocated exit signs to accommodate new floor plan.
 - b. Added General lighting to vestibule 105A.
 - c. Removed a fixture from Breakroom 112 and added a fixture into shower 112A.
- 2. See revised Sheet **E1.2** Area 1 Power Plan 120V.
 - a. Removed Panels H5 from electrical room and moved them to Area 1 Mezzanine.
 - b. Relocated receptacles in wall between room 105 and 106.
- 3. See revised Sheet **E1.6** Area 1 Equipment Power Plan 480V.
 - a. Changed air compressor circuit.
- 4. See revised Sheet E1.7 Area 1 Mezzanine Electrical Plans.
 - a. Added Panels H5, ECP#1, and ECP#2 to Area 1 Mezzanine.
- 5. See revised Sheet **E2.3** Area 2 Mechanical Power Plan.
 - a. Relocated ECP#1, ECP#2 to Area 1 Mezzanine.
 - b. Recircuited evaporator coils control connection.
 - c. Changed freezer evaporator coil circuits.
- 6. See revised Sheet E3.3 Panel Schedules.
 - a. Upsized panel H5, added panels ECP#1, ECP#2, and ECP#3 panel H5.

Attachments:

The Addendum consists of (2) page(s). The attached Documents consist of – Specification Sections 23 0514, 23 0995, 23 0997, 232112, and 23 2115. Door Hardware Sets for T.I. Doors. Sheets E1.1, E1.2, E1.6, E1.7, E2.3, and E3.3.

END OF ADDENDUM NO. 2

SECTION 23 0514 – VARIABLE FREQUENCY DRIVE SYSTEM

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

 Drawings, General Provisions of Contract, including General and Supplementary Conditions and Section 23 0501 apply to this Section.

1.2 SUMMARY

A. Furnish and install variable frequency drive system (VFD) as described in Contract Documents.

1.3 QUALITY ASSURANCE

A. The complete VFD package being supplied shall be listed and carry the label of at least one of the following: UL - Underwriters Laboratory; ETL - ETL Testing Laboratories, Inc.; CSA - Canadian Standards Association.

1.4 SUPPLIER & VENDOR REQUIREMENTS

- A. Suppliers of VFD systems must be in the primary business of supplying variable frequency drives and have a minimum of five (5) years of service in that business.
- B. Vendor must have local service center with factory spare parts inventory and factory authorized service technician on call 24 hr/day. The vendor must be able to show that the recommended spare parts are available locally and any repair could take place within 24 hours for equipment supplied on this project.

1.5 TESTING

- A. Prior to shipping, each unit shall be tested and a certified test report shall be supplied with each unit. Standard tests to include:
 - 1. Visual inspection consisting of checking unit enclosure, wiring, connections, fasteners, covers and locking mechanism.
 - 2. High pot test: Two (2) X rated voltage plus 1000 volts AC for 60 seconds shall be applied per UL 508 on all peripheral drive system power components (circuit breakers, contactors, motor overloads, line reactors, disconnect switches, etc.) as a complete package. A copy of test results shall be included in operation manuals.
 - 3. Motor run test.
 - 4. Control panel devices; test all devices and lights.
 - 5. Optional equipment; test optional equipment specified with VFD system.
 - 6. Special tests; as required and specified.

1.6 DRAWINGS/MANUALS

- A. Vendor shall supply approval drawings of system being supplied, in strict compliance with the specifications, within two (2) weeks ARO. Drawings shall include, as a minimum:
 - 1. General arrangement of each unit showing size and incoming and outgoing conduit locations.
 - 2. Schematic.
 - 3. Connection diagram, sufficient to install drive system.
- B. Each unit shall be supplied with two owner/maintenance manuals which shall include:
 - 1. Vendor information of equipment being supplied.
 - 2. Connection Information.
 - 3. Startup Procedure.
 - 4. Fault Reset Instruction.
 - 5. Wiring Diagrams (power and control).
 - 6. Parts List.
 - 7. Test Results:

Harmonic voltage distortion on line with unit off Harmonic voltage distortion with unit on line Telephone Influence Factor (TIF) Report Transformer Derate Report Displacement Power Factor Report

1.7 WARRANTY

- A. The vendor shall supply a warranty consisting of the following:
 - 1. Unit shall carry a warranty of parts and labor for 1 year after start-up.
 - 2. The unit is to be stored in a vendor approved area, said area to be free of dirt, vibration and moisture. Unit shall not be exposed to excessive heat or cold.
 - 3. The unit is not to be started by owner or his contractor, but by a vendor-furnished field start-up service technician.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

- A. The vendor shall verify compatibility of the VFD System being supplied with the specified motor. The motor shall be high efficiency with a 1.15 service factor, and shall be subject to VFD vendor approval.
- B. Each system shall be supplied in a NEMA 1 force ventilated filtered enclosure, either wall mounted or free standing.
- C. Each system shall have screened or engraved labels on all door operator and pilot devices.
- D. Each system shall bear an electrical shock warning label to warn personnel that a potential of electric shock exists.
- E. Each system shall be supplied complete, wired with all components assembled in a single enclosure including, but not limited to the VFD units, contactors, door interlocked circuit breaker, differential pressure controller, and/or other items listed in this specification or shown on the plans. Units requiring mounting and interwiring of separate bypass enclosure shall not be acceptable under this specification.
- F. The vendor shall supply a complete set of engineering drawings consisting of, as a minimum, general arrangements, power wiring diagram, control wiring diagram and schematic of VFD System components and options.
- G. The vendor shall supply an owner's manual consisting of catalog sheets listing actual component and part numbers. Manual shall also show test certificates, warranty and service personnel responsible for warranty.
- H. Vendor shall supply VFD System and start-up service. Mounting unit and connecting to power supply and mounting and wiring of remote devices shall be by mechanical contractor.
- I. The VFD inverter shall be altitude compensated and sized for the elevation at which the unit will be installed. The inverter shall operate in an ambient temperature of -10 degrees C to 50 degrees C and humidity of 0% to 90% noncondensing.
- J. The VFD inverter unit shall be mounted on a removable panel along with all other components such that, if required, panel could be removed from enclosure for maintenance or part replacement.
- K. The door shall be mounted with a minimum of two hinges with removable pins. Door shall be rigid and large doors shall have additional hinges and stiffening steel.
- L. Enclosure shall be painted with high grade enamel, with a minimum of 50-70 microns thick.
- M. The enclosure shall be force ventilated and the exhaust ports covered with louvers. All components of the system shall be contained in this single enclosure as an integrated package.

- N. Door mounted operator devices shall be industrial oil tight similar to those found on motor control centers.
- O. All control power for operator devices and customer connections shall be 120 volts. The control power transformer shall be a "Machine Tool" type and have both primary and secondary fusing.

2.2 STANDARD FEATURES

- A. The VFD unit shall be a solid state AC to DC converter sinusoidal pulse-width modulation (PWM) type.
- B. The unit shall operate on: Input Voltage 208/60/3 VAC +/- 10% Input Frequency 60 Hz +/- 5%
- C. Motor braking torque shall be available by means of regenerative braking.
- D. The drive shall contain an output frequency clamp such that minimum of maximum output frequency can be set at desired limits.
- E. Rated overload current shall be 110% for 1 minute.
- F. The VFD unit shall have an adjustable acceleration/deceleration time setting from 1 second to 120 seconds.
- G. The VFD unit shall maintain a 95% or better displacement power factor over the entire speed range.
- H. The inverter shall be supplied with a door interlocked input disconnect motor circuit protector. The MCP shall allow trip adjustment sufficient to start the motor across the line in the bypass mode and normally be set at a minimum setting for maximum protection in the VFD mode. The door mounted handle shall be able to lock in the Off position.
- I. The following door mounted operator controls shall be provided as a minimum:
 - Hand/Off/Auto Switch Local/Remote Selector Frequency Setting Speed Selector Frequency Indication Meter Calibrated in % Speed Power on Light VFD/Bypass Switch VFD Enable Light Bypass on Light VFD Fault Light External Fault Light (safeties interlock)
- J. The inverter shall have a minimum of the following protective features with an alarm display indication: Overcurrent shut-off Regenerative Overvoltage Electronic Thermal Protector Heatsink Overheat Instantaneous Power Failure Ground Fault
- K. The following termination points shall be provided on a terminal strip for field connections: Safeties Interlock (N.C. Contacts by owner) Remote Start/Stop Contact (N.O. Contacts by owner) Remote VFD Fault Contact (N.C.) Remote VFD/Bypass Enable Contact (N.O.) Remote Electronic Signal Input (4-20Ma)
- L. Auto restart shall be initiated by means of an automatic time delayed restart after recovering from undervoltage or loss of power. The inverter shall not automatically restart after overcurrent, overvoltage, overtemperature, or any other damaging conditions, but shall require a manual restart.

- M. Bypass: The inverter shall be supplied with a bypass contactor arrangement for transfer to the feeder line to operate at constant speed. The Contactors shall be electrically and mechanically interlocked and supplied with an adjustable motor overload relay.
- N. A VFD isolation switch shall be provided to allow maintenance on the VFD while operating in the bypass mode. It will be prewired in the same enclosure, including contactors, input disconnect MCP, motor overload, VFD/Bypass selector switch and Bypass ON light.
- O. Digital or Analog Ammeter.
- P. Elapsed Time meter.
- Q. NEMA 12 Enclosure with filters on forced-ventilation system.
- R. Frequency Jump: The drive shall be supplied with the capability of being field retrofitted with a frequency jump control to avoid operating at a point of resonance with the natural frequency of the machine.
- S. VFD unit shall have computer signal control option through the addition of a RS 232 data card which can be added at any time by plugging said card in existing unit.
- T. Fault Diagnostics: The drive system shall have non-volatile fault retention so that the VFDs fault history is available from memory even after power loss.

2.3 APPROVED MANUFACTURERS

- A. Energy Management Corporation EMC M Series
- B. Mitsubishi VTP Series
- C. Toshiba G2 Series
- D. ABB

2.4 APPROVED SUPPLIERS

- A. The following suppliers have been approved for assembling and local support of the VFDS:
 - 1. Energy Management Corporation
 - 2. Toshiba
 - 3. Midgley-Huber
 - 4. Other manufacturers and suppliers may submit for prior approval by submitting a point-by-point compliance to these specifications to the engineer at least 10 days before the published bid date. Sample test reports shall be included.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Painting: Manufacturer's standard paint shall be supplied. Touch-up paint shall be supplied if required.
- B. Mounting and power connection shall be provided by mechanical contractor.
- C. Vendor to supply field start-up service by an authorized factory service representative consisting of system check-out, start-up and system run. The vendor shall provide warranty and authorized factory service including operator training (if required). A written certificate of same shall be provided at start-up. VFD service technicians shall be full time employees of the vendor or manufacturer, primarily engaged in VFD service work during normal business hours and also on call 24 hours a day. Start-up by sales representative is not acceptable.

END OF SECTION 23 0514

SECTION 23 0995 - SEQUENCE OF OPERATIONS FOR HVAC CONTROLS

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. This section defines the manner and method by which controls function. Requirements for each type of control system operation are specified. Equipment, devices, and system components required for control systems are specified in other sections.
- B. Sequence of operation for:
 - 1. Rooftop packaged heating and cooling units.
 - 2. Dedicated outdoor H/C air units.
 - 3. Dedicated outdoor heating only air units.
 - 4. Exhaust fans.
 - 5. Hot water unit heaters.
 - 6. Air curtain controls.
 - 7. Split system A/C unit.
 - 8. Circulating pumps.
 - 9. Steam boiler.
 - 10. Separated combustion boilers.
 - 11. Direct contact water heaters.
 - 12. Boiler room combustion air.

1.2 RELATED REQUIREMENTS

A. Section 23 0993 - Direct-Digital Control System for HVAC.

1.3 SUBMITTALS

- A. See Section 01 3000 Administrative Requirements for submittal procedures.
- B. Sequence of Operation Documentation: Submit written sequence of operation for entire HVAC system and each piece of equipment.
 - 1. Preface: 1 or 2 paragraph overview narrative of the system describing its purpose, components and function.
 - 2. State each sequence in small segments and give each segment a unique number for referencing in Functional Test procedures; provide a complete description regardless of the completeness and clarity of the sequences specified in the contract documents.
 - 3. Include at least the following sequences:
 - a. Start-up.
 - b. Warm-up mode.
 - c. Normal operating mode.
 - d. Unoccupied mode.
 - e. Shutdown.
 - f. Capacity control sequences and equipment staging.
 - g. Temperature and pressure control, such as setbacks, setups, resets, etc.
 - h. Detailed sequences for all control strategies, such as economizer control, optimum start/stop, staging, optimization, demand limiting, etc.
 - i. Effects of power or equipment failure with all standby component functions.
 - j. Sequences for all alarms and emergency shut downs.
 - k. Seasonal operational differences and recommendations.
 - I. Interactions and interlocks with other systems.
 - 4. Include initial and recommended values for all adjustable settings, setpoints and parameters that are typically set or adjusted by operating staff; and any other control settings or fixed values, delays, etc. that will be useful during testing and operating the equipment.
 - 5. For packaged controlled equipment, include manufacturer's furnished sequence of operation amplified as required to describe the relationship between the packaged controls and the control

system, indicating which points are adjustable control points and which points are only monitored.

- 6. Include schedules, if known.
- C. Control System Diagrams: Submit graphic schematic of the control system showing each control component and each component controlled, monitored, or enabled.
 - 1. Label with settings, adjustable range of control and limits.
 - 2. Include flow diagrams for each control system, graphically depicting control logic.
 - 3. Include the system and component layout of all equipment that the control system monitors, enables or controls, even if the equipment is primarily controlled by packaged orintegral controls.
 - 4. Include draft copies of graphic displays indicating mechanical system components, controlsystem components, and controlled function status and value.
 - 5. Include all monitoring, control and virtual points specified in elsewhere.
 - 6. Include a key to all abbreviations.
- D. Points List: Submit list of all control points indicating at least the following for each point.
 - 1. Name of controlled system.
 - 2. Point abbreviation.
 - 3. Point description; such as dry bulb temperature, airflow, etc.
 - 4. Display unit.
 - 5. Control point or setpoint (Yes / No); i.e. a point that controls equipment and can have itssetpoint changed.
 - 6. Monitoring point (Yes / No); i.e. a point that does not control or contribute to the control of equipment but is used for operation, maintenance, or performance verification.
 - 7. Intermediate point (Yes / No); i.e. a point whose value is used to make a calculation which then controls equipment, such as space temperatures that are averaged to a virtual point to control reset.
 - 8. Calculated point (Yes / No); i.e. a "virtual" point generated from calculations of other point values.
- E. Project Record Documents: Record actual locations of components and setpoints of controls, including changes to sequences made after submission of shop drawings.

1.4 QUALITY ASSURANCE

A. Design system under direct supervision of a Professional Engineer experienced in design of this work.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.1 PACKAGED ROOFTOP HEATING AND COOLING UNITS

The direct digital control system shall monitor and control each rooftop A/C unit. An electronic room temperature sensor shall, through a local terminal unit DDC Controller, one per unit, control its DX Cooling, gas heaters, as applicable, outside, return and relief/exhaust air dampers (as applicable) and with full economize control.

- A. The DDC controller shall be of the automatic change-over type to provide for a heating and a cooling setpoint to be software interlocked to prevent the cooling setpoint from being set below the heating setpoint and vice-versa. Provide for a minimum 2 Deg.F. dead band between setpoints, adjustable up to 5 Deg.F.
- B. Include optimized start and stop features for unit control where the space temperature is compared to the ambient outdoor air temperature to calculate the minimum run time necessary to attain the normal mode setpoint by the occupied time scheduled.
- C. Anytime the rooftop A/C unit is in operation in the "Occupied" mode, the minimum outdoor air damper shall open to its minimum position except during morning warm-up (optimized start), night set-back, morning cool-down (optimized start) and night set-up.

- D. Upon a need for mechanical cooling, the DX cooling system shall be energized in such a manner as to maintain stable space temperature setpoint of 73 Deg.F (adj.). On a rise above setpoint the cooling shall be energized.
- E. The heating temperature setpoint shall be 71 Deg.F., adjustable. On a drop in space temperature below heating setpoint, the furnace section shall be energized, in stages, as required, to maintain setpoint. The cooling system shall be de-energized, where applicable. A supply air high limit control feature shall be provided to prevent the supply air temperature from raising above 90 Deg.F. by overriding and de-energizing the heat as required. The heat, when a demand for heat remains, shall shut-off for a minimum of three (3) minutes, adjustable, and be energized when the supply air temperature drops (fan runs continuously) below 80 Deg.F., adjustable.
- F. An evaporator motor current sensing relay will be interlocked through the DDC system in such a manner that anytime the unit fan is de-energized the cooling compressors will also be de-energized. Lock out of heating upon de-energizing unit will be through manufacturer's controls.
- G. Space temperature sensors will also be used to operate the units in the unoccupied modes of operation.

3.2 DEDICATED OUTDOOR HEATING COOLING AIR UNITS

- A. During occupied mode of operation, these units be run fulltime, and they will provide 100% outside air with the discharge air set at 45 Deg.F (adjustable).
- B. The VFD controlled supply fan will have the capability of being set by building maintenance staff at any CFM between 20% 100% air flow.
- C. During the occupied mode of operation, the positive or negative pressure (adjustable) requirements of the space will be sensed by 2 space sensors which then will control the variable speed exhaust fan(s) connected to this system.
- D. During the unoccupied mode of operation, these units shall be turned off and the outside air dampers closed.
- E. During the unoccupied mode, the hot water unit heaters located in the space shall be energized to maintain an adjustable space temperature as desired using separate controls.
- F. All sensors in process areas must be waterproof. See detail.

3.3 DEDICATED OUTDOOR HEATING ONLY AIR UNITS

- A. During the occupied mode of operation, these units shall be run fulltime, and they will provide 100% outside air and control the discharge air temperature to 55 Deg.F whenever possible.
- B. The VFD controlled supply fan will have the capability of being set by building maintenance staff at any CFM between 20% 100% air flow.
- C. During the occupied mode of operation, the positive or negative pressure (adjustable) requirements of the space will be sensed by 2 space sensors which then will control the variable speed exhaust fans connected to this system.
- D. During the unoccupied mode of operation. These units shall be turned off and the outside air dampers closed.
- E. During the unoccupied mode, the hot water unit heaters located in the space shall be energized to maintain an adjustable space temperature as desired using separate controls.
- F. All sensors in process areas must be waterproof. See detail.

3.4 EXHAUST FANS

- A. Refer to exhaust fan schedule to identify the fans connected to each system and the type of control needed. All fans are equipped with variable speed controls or have ECM motors on the small fractional 120V. motors for variable speed control.
- B. Furnish and install all interlocks indicated.
- C. Furnish and install all special controls shown on the schedule such as cooling thermostat, gas detection sensor, CO2 sensor and temperature sensors.

3.5 HOT WATER UNIT HEATERS

A. All unit heaters have automatic valves as indicated and will operate from separate sensors, Strap on pipe sensors will be provided to keep the fans off if no heat is sensed in the hot water pipes. All sensors in the process areas must be waterproof. All piping in process areas is stainless steel.

3.6 AIR CURTAIN CONTROLS

- A. The air curtains have no heating.
- B. The units come with their own on-off and variable speed controls.
- C. Provide the required wiring, conduit, and boxes to locate the switches and controls at standard height next to each door area.
- D. DDC system shall monitor status of all air curtain fans.

3.7 SPLIT SYSTEM A/C UNITS

- A. The control contractor shall install the sensor and thermostat furnished with units identified as FC1A and FC2A.
- B. Furnish and install the required wiring to the wall mounted location shown and install the thermostat or sensor provided.
- C. Wiring between the indoor unit and the outdoor unit will also be required.
- D. DDC system shall monitor temperature of rooms served by split system A/C units.

3.8 CIRCULATING PUMPS

- A. Pumps CP-1 and CP-2 are the main heating hot water pumps. They shall be operated as Main Pump and Back-Up Pump and shall alternate after each on/off cycle. They shall start anytime the outside air temperature drops below 40 Deg.F (adjustable) and stop when the outside temperature rises above 60 Deg.F. (adjustable). The variable speed controls on these pumps shall vary the water flow based on supply and return pressure as the 2-way valves on the unit heaters turn on and off. Several unit heaters have 3-way valves so they can run at all times when enabled. Provide complete control and read out of sensors on the DDC control system.
- B. Pumps CP-3 and CP-4 are to be tied into and interlocked with boilers B4 and B5 and will run whenever the boilers are enabled.
- C. DDS system shall control and monitor status of pumps.

3.9 STEAM BOILER

- A. The steam boilers will come as a prewire package with lead/lag central control.
- B. The control contractor shall connect to the packaged controller system to enable the system and provide DDC read outs of all available points.

3.10 SEPARATED COMBUSTION BOILERS

- A. These boilers are complete packaged boilers and will come with a single control system for the 2 boilers.
- B. Pumps CP-3 and CP-4 will be wired into the boilers B-4 and B-5 integral control systems to operate whenever that boiler is enabled.
- C. The boilers will be enabled by the central DDC system based on outside air temperature and the DDC system shall include read outs of all boiler controller points and temperatures.

3.11 DIRECT CONTACT WATER HEATERS

- A. These water heaters come as complete packaged units with integral controls
- B. The DDC control system shall connect to each water heater to monitor all points including water inlet temperatures and outlet temperatures.
- C. Provide enable on shut down and read outs of each boiler separately,

3.12 BOILER ROOM COMBUSTION AIR

- A. Furnish and install on all outside combustion air louvers in the boiler room automatic dampers with end switches and interlock them with the boilers requiring room combustion air.
- B. When the boiler is enabled, the damper will open and the end switch will then allow the boiler to start.
- C. The 2 dampers on the North wall of the boiler room will interlock with the 2 steam boilers and the 2 dampers on the Southeast wall of the boiler room will interlock with the 3 water heaters.

END OF SECTION 23 0995

SECTION 23 0997 – COMBUSTIBLE GAS DETECTOR CONTROLS

PART 1 - GENERAL

- 1.1 Provide a complete installation of a toxic gas detection system including Controller, Networking sensors, Relay Module and audible/visual alarm devices that can monitor multiple different gases.
- 1.2 The system shall include, but not be limited to, the following:
 - A. Future expandability
 - B. Display of toxic gas concentration
 - C. Ability to modify alarm set points
 - D. Automatic and Manual fan start/stop
 - E. Display of alarm status

PART 2 - PRODUCTS

2.1 CONTROLLER

- A. Controller will be powered by 17 -27 VAC or 24 38 VDC, 500 mA. The controller shall have 4 DPDT relays, 5A 30Vdc or 250 Vac (resistive load).
- B. Network capacity: Up to 96 transmitters, 32 per channel, Channel 1 and 2: Modbus & Vulbus, Channel 3 Modbus only, Channel 4 : Slave communication (i.e.: for BACnet option.

2.2 DETECTORS E³ POINT MODEL E3SM

- A. Transmitter will be powered by 24 V AC/DC. The gas transmitter will incorporate an electrochemical cell for toxic gas monitoring and catalytic bead sensor for combustible gases. Unit sensing cell must compensate for variation in relative humidity and temperature to maintain high levels of accuracy.
- B. The transmitter shall be capable of communicating with a 301C control panel via RS-485 Modbus, BACnet MS/TP. For local activation of fans or louvers (or other equipment), one on-board DPDT relays 5 A, 250 VAC (restrictive load) can be activated at programmable set points (and programmable time delays). An LCD display will provide local gas concentration readings.
- C. Transmitter will be capable of operating within relative humidity ranges of 5-95% non-condensing and temperature ranges of -4°F to 122°F.
- D. Unit will be certified to ANSI/UL 61010-1 label and CAN/CSA-C22.2 No. 61010. Transmitter must be manufactured in and ISO 9001-2000 production environment.
- E. The transmitter should have a plug-in capability for a gas cartridge with a smart sensor capable of self-testing.
- F. For local activation of audible alarms, the transmitter shall have an on-board device able to generate an audible output of 85 dBA @ 10 ft.
- G. Detector alarm levels are to be activated and the unit is to be installed in accordance with the following parameters:

GASES 1 ST ALAI SET POIN	2 ND ALARM Г	3 RD ALARM	MOUNTING HEIGHT	COVERAGE RADIUS
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Carbon			225 PPM	5 ft (150 cm)	
Monoxide	25 PPM	200 PPM	above		50 ft (15 m)
(CO)				finished floor	
Nitrogen			9.0 PPM	1 ft (30 cm) from	
Dioxide	0.72 PPM	2.0 PPM		ceiling	50 ft (15 m)
(NO ₂)					
Hydrogen			20 PPM	1 ft (30 cm) above	
Sulphide (H ₂ S)	10 PPM	15 PPM		finished floor	23 ft (7 m)
Hydrogen (H ₂)			90% LEL	1 ft (30cm) from	
	25% LEL	50% LEL		ceiling	23 ft (7 m)
Oxygen (O ₂)			22.5% Vol	5 ft (150cm)	
	19.5 % Vol	22.0 % Vol	above		23 ft (7 m)
				finished floor	
Methane (CH ₄)			90% LEL	1 ft (30cm) from	
	25% LEL	50% LEL		ceiling	23 ft (7 m)
Propane (C ₃ H ₈)			90% LEL	1 ft (30cm) above	
	25%LEL	50% LEL		finished floor	23 t (7 m)

2.3 Relay Module

A. The System shall have a 301-R8 Relay Module. The Relay Module provides 8 DPDT relays for the indirect activation of fans, louvers, etc. at programmable alarm levels.

2.4 ACCESSORIES

- A. Strobe and Horn type STAS for 24 Vac, FHS-240 for 24 Vdc or STACKSTAS for 120 Vac:
 - Strobe & Horn unit will be capable of operating within relative humidity ranges of 0-100% and temperature ranges of -30° F to 150° F. Rating of horn will be no less than 72dBA at 10 feet. Intensity of light will be no less than 40W and will flash at frequency of 1 per second. Unit will be certified by CSA. Honeywell Analytics.
- B. Transformer
 - 1. Transformer shall have an input voltage of 120 V AC and an output voltage of 24 Vac with a VA range of 50-300VA. Operating frequency shall be 60 Hz. Unit will provide insulation systems up to 130°C. Unit will operate at sound levels of less than 40 dBA. Transformers shall be of fused type.
- C. Detector Guards E3PT GUARD:
 - 1. The grid is made of a 9-guage steel wire. The guard must be designed to allow calibration without removing the guards.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Install hazardous gas monitoring equipment including sensors, audible alarms, as shown on Contract Drawing, and as recommended by manufacturer of equipment, and as required by authorities having jurisdiction.
- B. Install conduit and wiring from sensors to control panel and to the fan starters/HVAC control panel as recommended by manufacturer of equipment.

3.2 SEQUENCE OF OPERATION:

A. If any (CH4) Methane Sensor detects 25% LEL gas, the exhaust fans come on, evap. cooler comes on and motorized dampers open. Alarm A indicator light on control panel comes on and display indicates which

sensor is in alarm. If any (CH4) Methane Sensor detects 50% LEL the overhead door between LNG Bay and Main Shop Closes. Alarm B indicator light on control panel comes on and display indicates which sensor is in alarm. If any (CH4) Methane Sensor detects 90% LEL the exterior overhead doors open, remote strobe & horn are activated and contacts to Fire Panel operate. Alarm C indicator light on control panel comes on and display indicates which sensor is in alarm.

If any (CO) Carbon Monoxide Sensor detects 25 PPM gas, the exhaust fans come on, evap. cooler comes Β. on and motorized dampers open. Alarm A indicator light on control panel comes on and display indicates which sensor is in alarm. If any (CO) Carbon Monoxide Sensor detects 100 PPM the overhead door between LNG Bay and Main Shop Closes. Alarm B indicator light on control panel comes on and display indicates which sensor is in alarm. If any (CO) Carbon Monoxide Methane Sensor detects 200 PPM the exterior overhead doors open, remote strobe & horn are activated and contacts to Fire Panel operate. Alarm C indicator light on control panel comes on and display indicates which sensor is in alarm.

3.3 COMMISSIONING

- After installation, test and calibrate equipment to demonstrate operation of functions described above A. under sequence of operation by manufacturers certified service technician. Contact Brian Duffy, Relevant Solutions, Direct (801) 214-3305 Ext. 3305, Mobile (801) 556-1391, Brian.Duffy@relevantsolutions.com.
- B. Provide testing kits (including gas bottles) for testing and calibration by Commission technician.

3.4 WARRANTY:

Limited Warranty – Honeywell Analytic, Inc. warrants to the original purchaser and/or ultimate customer Α. ("Purchaser") of Vulcain products ("Product") that if any part thereof proves to be defective in material or workmanship within twelve (12) months, such defective part will be repaired, or replaced free of charge, at Honeywell Analytics' discretion if shipped prepaid to Honeywell Analytics in a package equal to or in the original container. The product will be returned freight prepaid and repaired or replaced if it is determined by Honeywell Analytics that the part failed due to defective materials or workmanship. The repair or replacement or any such defective part shall be Honeywell Analytics sole and exclusive responsibility and liability under this limited warranty.

END OF SECTION 23 0997

3

SECTION 23 2112 - STEAM AND CONDENSATE PIPING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings, General Provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, and Section 22 0100 apply to this Section.

1.2 SUMMARY

A. Furnish and install steam and condensate piping as described in Contract Documents.

1.3 QUALITY ASSURANCE

- A. Cleaning System:
 - 1. Thoroughly clean equipment, piping, and other material under this contract.
 - 2. Remove rust, scale, and other dirt before painting or covering.
 - 3. Remove rust, scale, and other dirt before operating the system.
- B. Operate heating system at 10 psi for at least 6 hours, then -
 - 1. Fill boiler to the top with water to wash any film, oil or grease over the top.
 - 2. Drain boiler and refill to proper level with fresh water.
 - 3. Use 1 pound tri-sodium phosphate for every 100 gallons of water during cleaning operation.
- C. Tests:
 - 1. No piping systems shall be covered or concealed until hydraulically tested at 50 psi in excess of maximum working pressure (100 psi minimum) and inspected and approved by Architect and any local inspector having jurisdiction.
 - 2. When directed by Architect or Engineer, Contractor shall conduct an operating test on any piece of equipment to demonstrate its capacity and operating characteristics.

PART 2 - PRODUCTS

2.1 MANUFACTURED UNITS

- A. Steam Supply Piping
 - 1. Schedule 40-316 Stainless pipe and fittings.
 - 2. Pipe ends shall be reamed out before being made up into fittings.
 - 3. Fittings shall be 316 Stainless full weld.
- B. Condensate Piping:
 - 1. Schedule 40 316 Stainless Pipe and fittings.
 - 2. Pipe ends shall be reamed out before being made up into fittings.
 - 3. Fittings shall be 316 Stainless Full Weld.

PART 3 - EXECUTION

- 3.1 INSTALLATION
 - A. Heating piping shall run generally as indicated on the Drawings.
 - B. Pipe ends shall be reamed and burrs removed.

- C. Unions shall be installed where necessary and on both sides of equipment and drip traps.
- D. Install float and thermostatic drip traps in sizes shown on drawings.
 - 1. Install at ends of steam mains.
 - 2. Install on raises in steam mains.
 - 3. Install dirt strainer and gate valve ahead of each drip trap.
- E. Runs of main piping shall start as high as possible.
- F. Keep as close to the ceiling as possible.
- G. Make sufficient allowance for grade and branches to be taken off top at 45 degree angles.
- H. Steam and return mains shall be graded downward in direction of flow 1 inch in 20 feet.
- I. Runouts and branches that grade back against flow of steam shall be graded 1/4 inch per foot.

END OF SECTION 23 2112

23 21 15 - STEAM AND CONDENSATE SPECIALTIES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings, General Provisions of Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, and Section 23 0100 apply to this Section.

1.2 SUMMARY

A. Furnish and install steam and condensate specialties as described in Contract Documents.

PART 2 - PRODUCTS

B.

- 2.1 MANUFACTURED UNITS
 - A. Drip Traps: 316 Stainless Steel
 - 1. Combination float and thermostatic type.
 - a. Thermostatic element shall form automatic air vent and conform to applicable requirements of thermostatic radiator traps.
 - b. Main trap body, float, and valve mechanism shall be capable of withstanding constant steam pressure of 125 psi.
 - c. Traps shall deliver rated capacity called for on drawings at 1/2 pound differential pressure.
 - 2. Approved Manufacturers:
 - a. Illinois
 - b. Hoffman
 - c. Armstrong
 - Valves:316 Stainless Steel
 - 1. Approved Manufacturers:
 - a. Crane
 - b. Nibco
 - c. Jenkins
 - d. Stockham
 - e. Milwaukee
 - 2. Full port ball valves rated for steam service at 250°F.
 - C. Swing Check Valves: 316 Stainless Steel
 - 1. Provision for re-grinding without removal of the valve from the line.
 - 2. 2 Inch & Smaller All bronze, 125 psi swp at 350 deg F.
 - 3. 2-1/2 Inch & Larger Flanged iron body, bronze mounted, 125 psig swp at 450 deg F.
 - 4. Approved Manufacturers:
 - a. 2 Inch & Smaller:
 - 1) Stockham B319
 - b. 2-1/2 Inch & Larger:
 - 1) Stockham G931
 - c. Equals by Crane, Jenkins, Lunkenheimer, or Walworth.
 - D. Strainers:
 - 1. Strainers shall be basket type with 316 Stainless body and brass basket easily removable.
 - 2. Provide manual blowdown valve with removable handle and hose connection on each strainer.
 - a. Barnes & Jones
 - b. or approved equal

END OF SECTION 23 21 15

Intermountain Packing HW Sets TI only Ver 04, 04-09-21

HW SET: 01

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI115B TI115C

HARDWARE	BY DOOR MFG/SUPPLIER	B/O

HW SET: 11

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI117

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	WIRELESS ELECTRONIC	NDEBP6D LAT BATTERY	≠ 626	SCE
		LOCK	OPERATED		
1	EA	GATEWAY	GWE	×	SCE
			(IF REQ'D FOR INTEGRATED		
			SYSTEM)		
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

NDEB (WIRELESS, MOBILE ENABLED LOCK) - SET UP AND CONFIGURED (UNLOCK SCHEDULE, ACCESS) OVER BLE WITH A CONNECTED SMARTPHONE OR TABLET. REQUIRES NO PROPRIETARY DEVICE. COMMISSION AND CONFIGURED USING THE FREE SCHLAGE ENGAGE CLOUD-BASED APP, DOWNLOADED FROM THE MOILE APP STORE. DOOR POSITION IS MONITORED THROUGH INTEGRAL DOOR POSITION SENSOR.

HW SET: 12 DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI119

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	WIRELESS ELECTRONIC	NDEBP6D LAT BATTERY	₩ 626	SCE
		LUCK	OPERATED	,	
1	EA	GATEWAY	GWE	×	SCE
			(IF REQ'D FOR INTEGRATED		
			SYSTEM)		
1	EA	SURFACE CLOSER	4050A RW/PA	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

NDEB (WIRELESS, MOBILE ENABLED LOCK) - SET UP AND CONFIGURED (UNLOCK SCHEDULE, ACCESS) OVER BLE WITH A CONNECTED SMARTPHONE OR TABLET. REQUIRES NO PROPRIETARY DEVICE. COMMISSION AND CONFIGURED USING THE FREE SCHLAGE ENGAGE CLOUD-BASED APP, DOWNLOADED FROM THE MOILE APP STORE. DOOR POSITION IS MONITORED THROUGH INTEGRAL DOOR POSITION SENSOR.

Intermountain Packing HW Sets TI only Ver 04, 04-09-21

HW SET: 20

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI115A TI116

3	EA	HINGE	5BB1 4.5 X 4.5 NRP	652	IVE
1	EA	PUSH PLATE	8200 4" X 16"	630	IVE
1	EA	PULL PLATE	8305 10" 4" X 16"	630	IVE
1	EA	SURFACE CLOSER	4050A HCUSH TBWMS	689	LCN
1	EA	KICK PLATE	8400 10" X 2" LDW B-CS	630	IVE
1	EA	WALL STOP	WS406/407CCV	630	IVE
3	EA	SILENCER	SR64	GRY	IVE

HW SET: 27

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

TI12	20	TI121 T	TI123	TI126	TI127		
3	EA	HINGE	5BB	1 4.5 X 4.5		652	IVE
1	EA	PRIVACY W/DB & IN	D L949	06P6 LATA L58	3-363	626	SCH
1	EA	SURFACE CLOSER	4050	A RW/PA		689	LCN
1	EA	KICK PLATE	8400	10" X 2" LDW	B-CS	630	IVE
1	EA	WALL STOP	WS4	06/407CCV		630	IVE
1	EA	GASKETING	488S	BK PSA		BK	ZER
1	EA	COAT AND HAT HOC	OK 507			626	IVE

HW SET: 30

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI118 TI122

3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ALX53P6 LAT	626	SCH
1	EA	WALL STOP	WS406/407CCV	630	IVE
1	EA	GASKETING	488SBK PSA	BK	ZER

HW SET: 30-B

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

TI101		TI102	TI103	TI104	TI105	TI107	
TI108		TI109	TI110	TI111			
3	EA	HINGE		5BB1 4.5 X 4.5 NRP		BBLK/6 22	IVE
1	EA	ENTRANCE LOCK		ALX53P6 LAT		622	SCH
1	EA	WALL STOP		WS406/407CCV		BLK	IVE
1	EA	GASKETING		488SBK PSA		BK	ZER

Intermountain Packing HW Sets TI only Ver 04, 04-09-21

HW SET: B1

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS) TI100

2	EA	CONT. HINGE	112XY	315AN	IVE
2	EA	PUSH BAR	9100HD-STD	BLK	IVE
2	EA	LONG DOOR PULL	9264F 36" STD	BLK	IVE
2	EA	OH STOP	100S ADJ	BLK	GLY
2	EA	SURFACE CLOSER	4040XP EDAW/62G MC	693	LCN
2	EA	PA MOUNTING PLATE	4040XP-18PA	693	LCN
2	EA	5TH SCREW SUPPORT	4040XP-30	693	LCN
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER		B/O

HW SET: B2

DOOR NUMBER: (INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING DOORS)

TI112A TI112B

1 1	EA EA	CONT. HINGE WIRELESS ELECTRONIC LOCK	112XY NDEBP6D LAT BATTERY OPERATED	×	315AN 622	IVE SCE
1	EA	GATEWAY	GWE	×		SCE
1	EA	SURFACE CLOSER	4040XP EDAW/62G MC		693	LCN
1	EA	PA MOUNTING PLATE	4040XP-18PA		693	LCN
1	EA	5TH SCREW SUPPORT	4040XP-30		693	LCN
1	EA	WALL STOP	WS406/407CCV		BLK	IVE
1	SET	PERIMETER SEALS	BY DOOR MFG/SUPPLIER			B/O

NDEB (WIRELESS, MOBILE ENABLED LOCK) - SET UP AND CONFIGURED (UNLOCK SCHEDULE, ACCESS) OVER BLE WITH A CONNECTED SMARTPHONE OR TABLET. REQUIRES NO PROPRIETARY DEVICE. COMMISSION AND CONFIGURED USING THE FREE SCHLAGE ENGAGE CLOUD-BASED APP, DOWNLOADED FROM THE MOILE APP STORE. DOOR POSITION IS MONITORED THROUGH INTEGRAL DOOR POSITION SENSOR.



KEYED NOTES:

#	SYMBOL USED FOR CALLOUT
701	CONNECT LIGHITNG CIRCUIT AND 0-10V DIMMING WIRES SEE SHEET E4.2 FOR DETAILS.
702	TO LIGHTING CIRCUIT SHOWN ON SHEET E2.1.
703	CONNECT TO RECEPTACLE CIRCUIT ON E1.2.
704	CONNECT LIGHITNG CIRCUIT AND 0-10V DIMMING WIRES SEE SHEET E4.2 FOR DETAILS.
705	CONNECT LIGHITNG CIRCUIT TO LCP IN ROOM XXX. SEE S DETAILS.
706	OVERRIDE SWITCHES TO BE INSTALLED IN AN EASY TO AN ELECTRICAL CONTRACTOR TO PROGRAM OVERRIDE SWI PER PRODUCTION MANAGERS SPECIFICATIONS.
707	OVERRIDE SWITCHES TO BE INSTALLED IN AN EASY TO A ELECTRICAL CONTRACTOR TO PROGRAM OVERRIDE SWI SO THAT LIGHTING CAN ONLY BE TURNED OFF FROM THIS HOURS.

708 ELECTRICAL CONTRACTOR TO VERIFY EXACT HEIGHT AND LOCATION OF JUNCTION BOX SO THAT INSTALLED FIXTURE FITS BETWEEN CANOPY SUPPORTS.



S TO LCP IN ROOM XXX.

S TO LCP IN ROOM XXX.

SHEET E4.2 FOR

ACCESS AREA. WITCH FUNCTIONALITY

ACCESS AREA. WITCH FUNCTIONALITY HIS LOCATION AFTER



MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862

www.musgrovepa.com project number: 20-428







MUSGROVE ENGINEERING, P.A. 234 S. Whisperwood Way Boise, ID 83709 208.384.0585 645 West 25th Street Idaho Falls, ID 83402 208.523.2862 www.musgrovepa.com





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607 SEE SHEET E4.1 FOR THERMOSTAT ROUGH-IN DETAIL.



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