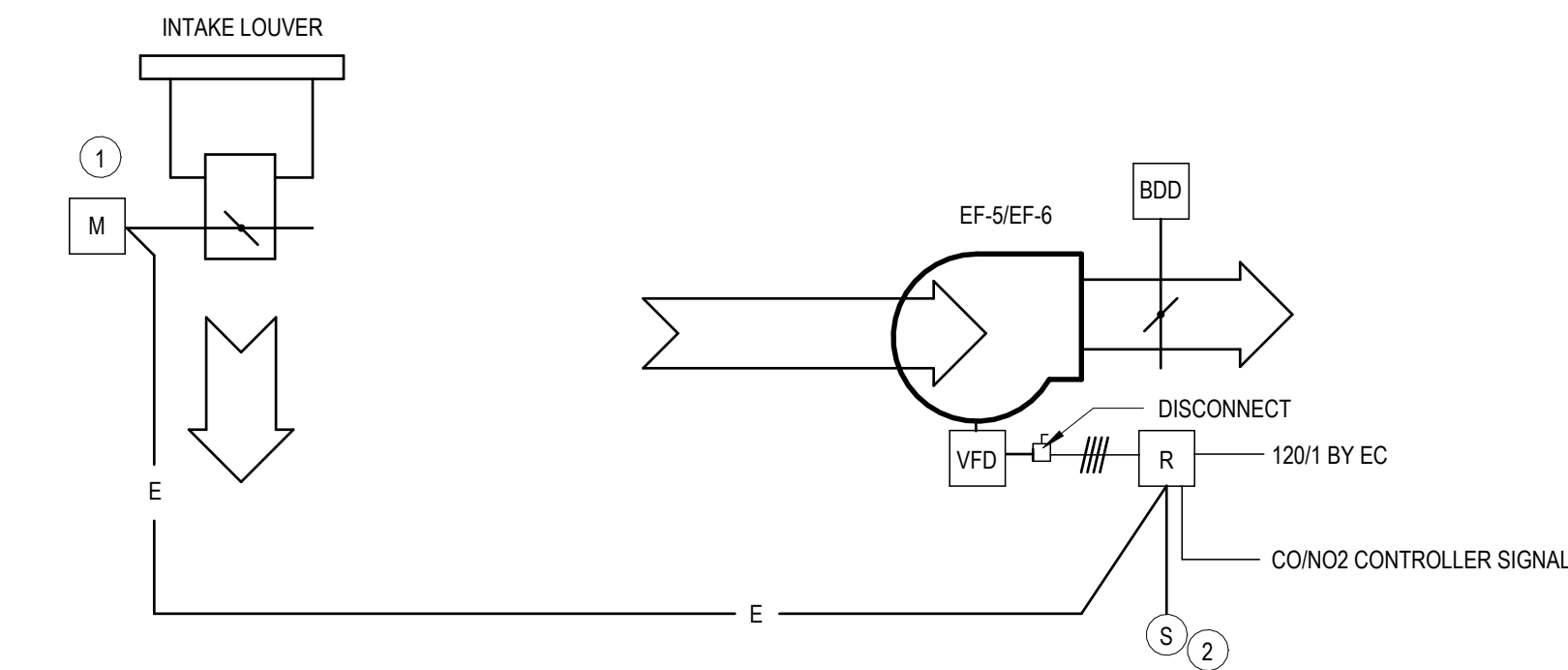




- APPARATUS BAYS**
THE GAS DETECTION SYSTEM SHALL BE ABLE TO ACTIVATE THE PURGE FANS, AND ALERT OCCUPANTS OF HAZARDOUS CONDITIONS.
- A. ALARM LEVELS:
1. LOW LEVEL ALARM GAS CONCENTRATION ARE AS FOLLOWS:
A. CO(CARBON MONOXIDE) - 35 PPM
B. NO2(NITROGEN DIOXIDE) - 1 PPM
2. HIGH LEVEL ALARM GAS CONCENTRATION ARE AS FOLLOWS:
A. CO(CARBON MONOXIDE) - 100 PPM
B. NO2(NITROGEN DIOXIDE) - 3 PPM
- B. NORMAL OPERATION (IN CONJUNCTION WITH EF -6 AND LV1C):
1. UNDER NORMAL OPERATING CONDITIONS, EXHAUST FAN EF -6 AND ITS ASSOCIATED INTAKE LOUVER LV1C SHALL BE INTERLOCKED WITH THE OCCUPANCY SENSOR(S) INSTALLED WITHIN THE APPARATUS BAY. UPON DETECTION OF OCCUPANCY, EF -6 SHALL AUTOMATICALLY ENERGIZE AND LV1C SHALL OPEN. UPON VACANCY, EF -6 AND LV1C SHALL DE-ENERGIZE AND CLOSE, RESPECTIVELY, FOLLOWING A FIELD-ADJUSTABLE OFF-DELAY (MINIMUM 5 MINUTES) TO EXHAUST RESIDUAL CONTAMINANTS.
2. IN PARALLEL, THE RADIANT HEATERS SHALL BE INTERLOCKED WITH THE SAME OCCUPANCY SENSOR(S) AND SHALL BE ENABLED TO ENERGIZE PER THEIR THERMOSTAT SETPOINT ONLY WHILE OCCUPANCY IS DETECTED. UNLIKE THE FAN AND LOUVER, THE RADIANT HEATERS SHALL DE-ENERGIZE IMMEDIATELY (WITHOUT ANY TIME DELAY) UPON DETECTION OF VACANCY TO PREVENT UNNECESSARY ENERGY CONSUMPTION.
3. THE OCCUPANCY-BASED CONTROL FOR THE HEATERS, EF -6, AND LV1C SHALL ALL BE OVERRIDDEN DURING GAS DETECTION ALARM CONDITIONS (PER SECTION B.4). WHEREUPON THE COINQZ CONTROLLER SHALL FORCEBLY ENERGIZE EF -6, OPEN LV1C, AND DEACTIVATE ALL RADIANT HEATERS REGARDLESS OF OCCUPANCY STATUS.
4. PURGE OPERATION:
A. LOW LEVEL ALARM: WHEN A LOW LEVEL ALARM IS DETECTED FROM THE GAS DETECTION SYSTEM THE FOLLOWING SEQUENCE SHALL BE IMPLEMENTED:
a. UPON SIGNAL FROM COINQZ CONTROLLER, THE ASSOCIATED DAMPER SHALL BE OPENED AND ASSOCIATED EF SHALL BE ENERGIZED.
b. DETECTION OF COINQZ SHALL OVERRIDE THE MANUAL SWITCH CONTROL.
c. ALL RADIANT HEATERS IN THE SPACE SHALL BE DEACTIVATED.
d. LOW LEVEL ALARM SHALL TURN ON.
B. HIGH LEVEL ALARM: WHEN A HIGH LEVEL ALARM IS DETECTED FROM THE GAS DETECTION SYSTEM THE FOLLOWING SEQUENCE SHALL BE IMPLEMENTED:
a. UPON SIGNAL FROM COINQZ CONTROLLER, THE ASSOCIATED DAMPER SHALL BE OPENED AND ASSOCIATED EF SHALL BE ENERGIZED.
b. DETECTION OF COINQZ SHALL OVERRIDE THE MANUAL SWITCH CONTROL.
c. ALL RADIANT HEATERS IN THE SPACE SHALL BE DEACTIVATED.
d. HIGH LEVEL ALARM SHALL TURN ON.
e. STROBE LIGHT AND SIRENS SHALL TURN ON.
C. ONCE ACTIVATED THE FAN SHALL RUN FOR 5 MINUTES AFTER THE ALARM IS CLEARED.
C. MOTORIZED DAMPER OPERATION
1. THE MOTORIZED DAMPERS SHALL BE INTERLOCKED WITH THE PURGE FAN OPERATION AND BE OPEN WHEN THE PURGE FAN IS ENERGIZED AND CLOSED WHEN THE PURGE FAN IS DE-ENERGIZED.
D. WHEN GAS DETECTION SYSTEM CONTROLLER IS IN FAULT STATUS, EF-5, EF-6 SHALL ENERGIZE AND THE FAULT LIGHT SHALL BE ENERGIZED IN THE CONTROLLER.
- PLAN NOTES**
1. OUTSIDE AIR DAMPER SHALL BE PROVIDED WITH LOUVER.
2. MANUAL ON/OFF SWITCH TO BE PROVIDED.

GAS DETECTION SYSTEM, PURGE FAN & OUTSIDE AIR DAMPER SEQUENCE OF OPERATION
1
NO SCALE



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RFP 2027-3500-01

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BID DOCUMENTS

Project No.: 25-02527
Date: 08/31/26
Drawn by: VRJ
Checked by: ANM
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MECHANICAL
DIAGRAMS

M710