## GENERATOR STEP LOADING NOTES

STEP #1 -
- PANEL "L"
- PANEL "P1"
- PANEL "P2"
- PANEL "P3"

STEP #2 - (VIA CONTACTOR "LC-P4-1")
- PANEL "P4"
- PANEL "P5"

STEP #3 -
- MOTOR - PANEL "H" - AHU-1
- MOTOR - PANEL "H" - HP-1
- MISC. NON-LINEAR LOAD - PANEL "H" - WH1 (PROVIDE TIME DELAY RELAY IN BOX AT UNIT)
- MISC. NON-LINEAR LOAD - PANEL "H" - WH2 (PROVIDE TIME DELAY RELAY IN BOX AT UNIT)
- MISC. NON-LINEAR LOAD - PANEL "H" - EWH-1 (PROVIDE TIME DELAY RELAY IN BOX AT UNIT)
- MISC. NON-LINEAR LOAD - PANEL "H" - DCU-1 (PROVIDE TIME DELAY RELAY IN BOX AT UNIT)

STEP #4 -
- MOTOR - PANEL "H" - AHU-2
- MOTOR - PANEL "H" - HP-2

STEP #5 -
- MOTOR - PANEL "H" - AHU-3
- MOTOR - PANEL "H" - HP-3

STEP #6 -
- MOTOR - PANEL "H" - AHU-4
- MOTOR - PANEL "H" - HP-4

STEP #7 -
- MOTOR - PANEL "H" - AHU-5
- MOTOR - PANEL "H" - HP-5

STEP #8 -
- MOTOR - PANEL "H" - AHU-6
- MOTOR - PANEL "H" - HP-6

STEP #9 -
- MOTOR - PANEL "H" - AHU-7
- MOTOR - PANEL "H" - HP-7

SCHEDULE NOTES:
1. FOR STEPS 3 THRU 9 CONTRACTOR IS TO REFER TO SHEET E4.1 FOR TIME DELAY DEVICE TO BE PROVIDED AT EACH OUTDOOR UNIT.

2. CONTRACTOR PROVIDE ALL REQUIRED CONDUIT AND LOW VOLTAGE WIRING ALONG WITH PROGRAMMING OF GENERATOR CONTROL PANEL FOR TIME DELAYS AS LISTED.

## GENERATOR NOTES

1. PROVIDE AN EMERGENCY STOP BREAK GLASS STATION FOR THE EMERGENCY GENERATOR. PROVIDE ADDITIONAL CONTACTS AT CONTROL PANEL ALONG WITH CONDUIT INTERCONNECTIONS.

2. CONTRACTOR IS TO PROVIDE CERTIFICATION OF GENERATOR TESTING AND ANNUNCIATION.

3. PROVIDE AN ON SITE FULL LOAD GENERATOR TEST IN ACCORDANCE WITH NFPA-110 CHAPTER 5-13. THESE TEST RESULTS SHALL BE MADE AVAILABLE AT THE FINAL INSPECTION. AFTER THIS TEST. PROGRAMMING IS TO BE SET AS DEFINED BY OWNER. TESTING EXERCISES TO BE DONE WITH LOAD.

4. PROVIDE ALL REQUIRED LOW VOLTAGE WIRING FROM THE GENERATOR TO TRANSFER SWITCH IN 1"C..

5. NEUTRAL IS NOT TO BE GROUNDED AT THE GENERATOR.

6. PROVIDE A BATTERY CHARGER MALFUNCTION INDICATION AT THE GENERATOR CONTROL PANEL AND AT THE REMOTE ANNUNCIATOR.

7. PROVIDE CONNECTION TO 120V AUX CONTACTS AT TRANSFER SWITCH.

8. PROVIDE CONDUIT AND WIRING FROM GENERATOR TO CONTROL PANEL AND TO ANNUNCIATOR. COORDINATE WITH VENDOR FOR WIRING REQUIREMENTS.

9. CONTRACTOR TO PROVIDE CONCRETE PAD FOR GENERATOR IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.

10. CONTACT MIKE MARTIN WITH NIXON POWER SYSTEMS AT 615-244-8806 FOR ASSISTANCE OR LOCAL KOHLER REP..

11. 10 AMP EQUALIZED FLOAT TYPE CHARGER WITH NFPA 110 ALARMS IS TO BE PROVIDED. FLOAT CHARGE UNIT IS IN GEN SET HOUSING.

## GENERATOR SPECIFICATIONS

1. KOHLER #250REOZJE, 208/120V-3PH 250 KW - 312.5 KVA, STAND-BY WITH THE OPTIONAL ACCESSORIES LISTED BELOW:

- WEATHERPROOF ENCLOSURES;
- CONTROL PANEL MOUNTED EMERGENCY STOP;
- SOUND ATTENUATED ENCLOSURE, STEEL; DIGITAL CONTROL PANEL;
- REMOTE ANNUNCIATOR WITH NFPA REQUIRED SIGNALS;
- 800A CIRCUIT BREAKER;
- LOAD BANK TEST;
- SEE BELOW ENGINE SIZE: 6 CYLINDER;
- 5.4 LITER;
- 50°C AMBIENT RADIATOR;
- 1800RPM. ENGINE RUNNING SPEED;
- ALTERNATOR RATE OF RISE 125°, 1 BEARING;
- PERMANENT MAGNET GENERATOR EXCITATION;
- FUEL TYPE: DIESEL;
- FUEL CONSUMPTION: 17.6 GALLONS AT FULL LOAD;
- 5 YEAR EXTENDED COMPREHENSIVE WARRANTY TO COVER PARTS, LABOR, AND TRAVEL. WARRANTY TO BE BY SINGLE SOURCE MANUFACTURER. SUBMIT ALL WARRANTY INFORMATION WITH SHOP DRAWINGS. WARRANTY TO BE FROM DATE OF STARTUP.
- NOTE THAT THIS GENERATOR SATISFIES TIER 3 REQUIREMENTS FOR EPA EMISSION STANDARDS.
- GENERATOR DIMENSIONS: 52.7"W x 161.2"L x 99.3"H
- DRAWINGS SHALL OVERRIDE SPEC'S IN THE EVENT OF A CONFLICT.

## AUTOMATIC TRANSFER SWITCH (ATS) NOTES

1. ATS IS AN AUTOMATIC TRANSFER SWITCH WITH ENCLOSURE, 3-POLE.

   SIZE: 800 AMPERE, 600V RATED
   VOLTAGE: 208/120 VOLTS, 3 PHASE, 4 WIRE
   CABINET: NEMA 3R
   TYPE: UTILITY TO GENERATOR

2. PROVIDE SOLID NEUTRAL.

3. ATS MUST HAVE A PAIR OF WIRES RUN TO THE GENERATOR FOR FOR STARTING CIRCUITRY.

4. PROVIDE ALL REQUIRED CONTACT CLOSURES.

5. PROVIDE AN ENGINE GENERATOR EXERCISING TIMER IN ACCORDANCE WITH NFPA-110, CHAPTER 4-2.5.9: NO LOAD, 7-DAY..

6. CONTACT MIKE MARTIN WITH NIXON POWER SYSTEMS AT 615-244-8806 FOR ASSISTANCE OR LOCAL KOHLER REP..

7. CHARGER BUILT INTO GEN SET.

8. DRAWINGS SHALL OVERRIDE SPEC'S IN THE EVENT OF A CONFLICT.

9. PROVIDE 16 SETS OF OUTPUTS OF NECESSARY CONTACTS AND CONNECTIONS FOR DELAYED RESTART OF DESIGNATED MECHANICAL UNITS ON LOSS OF POWER. SEE HVAC UNIT WIRING TABLE.

## SUB BASE FUEL TANK NOTES

1. PROVIDE AND INSTALL A SUB BASE FUEL TANK ON THE GENERATOR SIZED FOR CAPACITY TO RUN THE GENERATOR AT FULL LOAD FOR 26.8 HOURS. THE TANK SHALL BE MANUFACTURED IN COMPLIANCE WITH ALL NATIONAL AND LOCAL CODES. THE TANK SHALL BE AIR TESTED AT THE SITE PRIOR TO INSTALLATION.

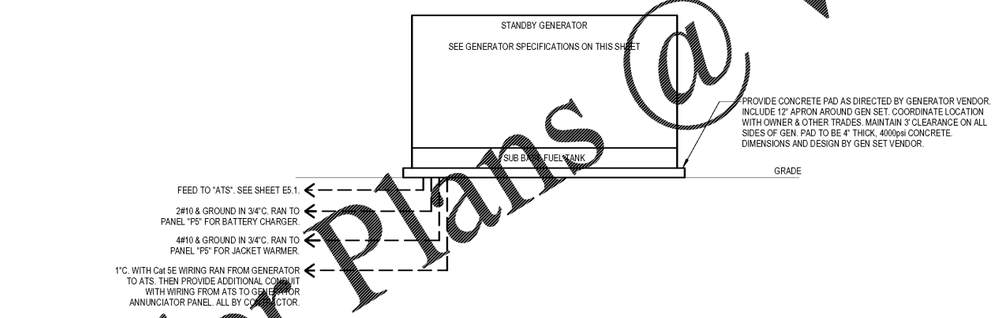
2. THE TANK SHALL BE OF DOUBLE WALL CONSTRUCTION AND THE TANK SHALL BE PROVIDED WITH EMERGENCY VENT PIPING.

3. THE TANK IS TO BE SUPPLIED WITH HIGH AND LOW FUEL LEVEL SENSORS.

4. THE TANK SHALL BE SUPPLIED WITH AN OVERFILL CONTAINMENT CHAMBER AND LEAK SENSING SYSTEM WITH AUDIBLE AND VISUAL ALARMS.

5. THE TANK AND CONTROLS PACKAGE IS TO BE SUPPLIED WITH ALL THE NECESSARY EQUIPMENT REQUIRED TO FURNISH A COMPLETE AND WORKING SYSTEM.

6. THE SUBJECT TANK IS TO BE WARRANTED BY THE MANUFACTURER FREE FROM DEFECTS IN MANUFACTURING, WORKMANSHIP AND MATERIALS FOR A PERIOD OF FIVE YEARS(COMPREHENSIVE). ALL OTHER COMPONENTS SHALL BE WARRANTED BY THEIR RESPECTIVE MANUFACTURERS.




1 **STANDBY SYSTEM SERVICE RISER DIAGRAM**
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**E5.2**
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