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Florida Power & Light Company, P.O. Box 14000, Juno Beach, FL 33408-0420

May 12, 2009

Michael P. Halpin, Program Administrator
Office of Siting Coordination
Department of Environmental Protection
3900 Commonwealth Blvd. MS#48
Tallahassee, FL 32399-3000

RECEIVED

MAY 21 2009

RE: FPL West County Energy Center
PA 05-47
Amendment to the Site Certification
Hurricane Shelters

BUREAU OF AIR REGULATION

Dear *Mike* Mr. Halpin,

In keeping with Florida Administrative Code section 62-1705 (1) F.A.C., Florida Power & Light Company (FPL) requests a postcertification amendment to the Site Certification for FPL West County Energy Center. The purpose of this amendment request is to obtain approval for FPL to place, two side by side, International Disaster Service Hurricane shelters on the site to facilitate the rapid return to plant operations after a storm event.

The shelters are International Disaster Service Hurricane shelters custom built ISO 8323 freight containers with applicable accessories to sustain team members (storm riders) in the event of a hurricane or other significant weather event. The shelters will be reinforced to with stand Category 5 Hurricanes. Each shelter is approximately 40 feet long and 8 feet wide. The shelters will be anchored to a 2.5 foot thick reinforced concrete slab using steel anchor bolts. The slab will measure approximately 40 feet long and 19 feet wide to accommodate both shelters. The shelters and associated emergency propane generators (one primary and one back up) will be placed adjacent to the control room and in the already designated impervious area.

The shelters will each be powered by two 30k W Liquid Propane (LP) fired emergency generators (one primary and one back up). Generator output voltage will be 120/240V, 1-phase and will not be used to generate electricity for sale to FPL customers. The generators are "Unregulated Sources", Categorically Exempt from permitting as provided by Rule 62-210.300(3) (a). The generators are also exempt from 40 CFR Part 60 Subparts JJJJ due to their manufactures date (02/06/2006) and from ZZZZ due to their size (less than 500 Hp).

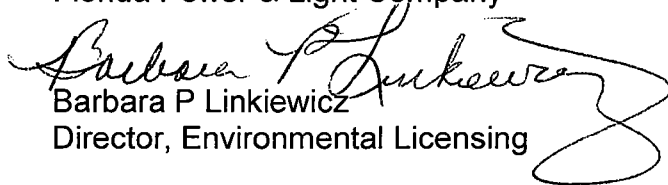
Each shelter will have a 1,050 gallon one compartment, concrete holding tank reinforced with rebar. The holding tank will be pumped immediately after a storm event similar to a port-o-john.

Potable water will be provided to the shelters by plumbing into the plants existing potable water line. Potable water is provided to the site by the Palm Beach County municipal potable water line.

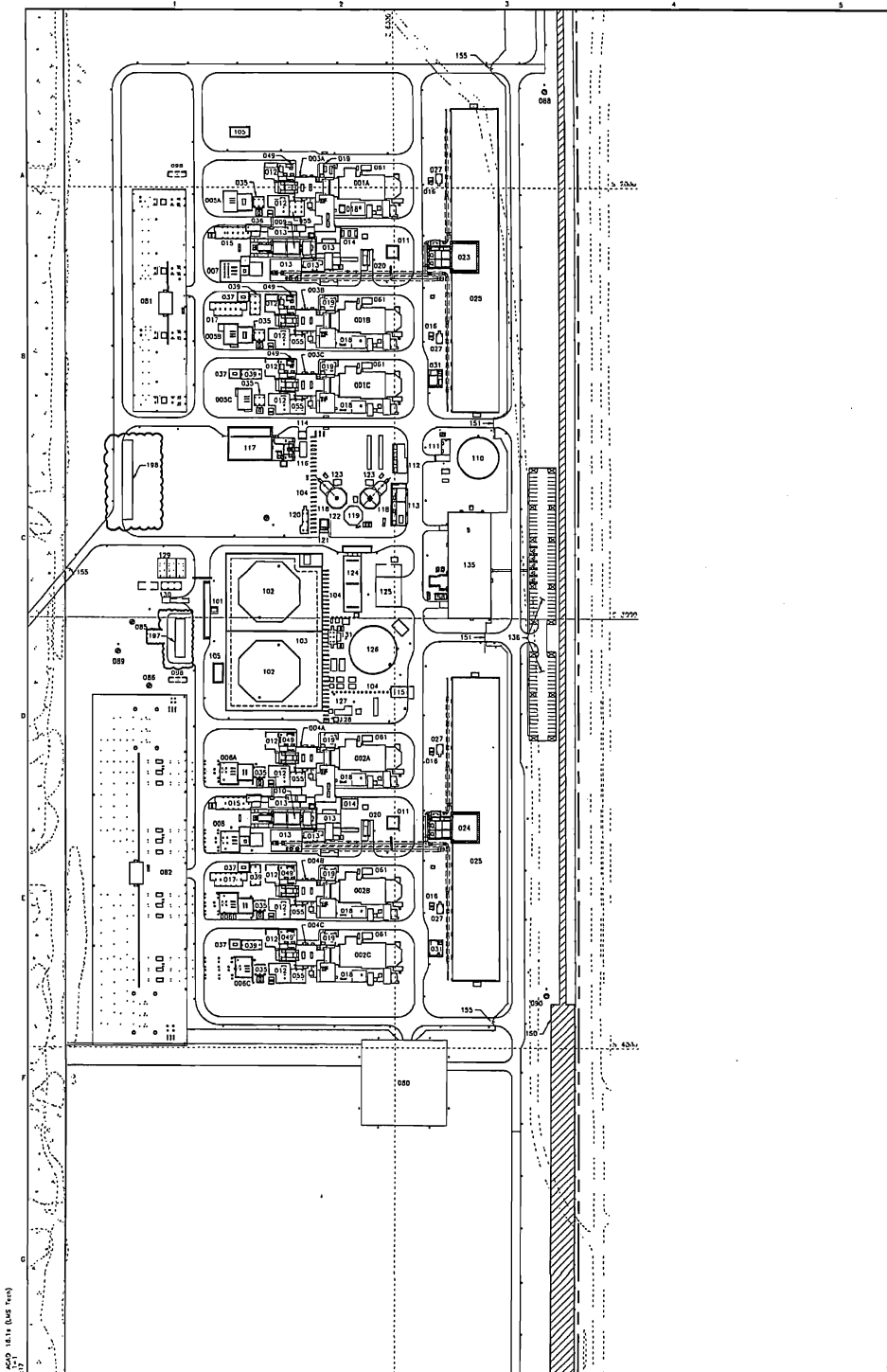
Enclosed, please find copies of the site plan showing the location of the shelters, drawings of the International Disaster Services shelter and the Standby Generator, Model 005220-0 Owner's Manual.

Thank you for your attention and consideration of FPL's request to amend the Site Certification for the West County Energy Center. If you have any questions regarding this submittal, please contact me at (561) 691-7518 or Jan Kirwan at (561)-691-2820.

Sincerely,
Florida Power & Light Company


Barbara P Linkiewicz
Director, Environmental Licensing

cc: Tim Gray, FDEP Southeast District
Trina Vielhauer, FDEP Bureau of Air Regulation
James Stormer, PBC Health Dept
Thomas Tittle, PBC Health Dept
Scott Shiplack, FDEP Bureau of Air Regulations
Carmine Priore, FPL WCEC (w/o attachments)
Timothy Bryant, FPL WCEC (w/o attachments)
Dave Fawcett, FPL WCEC (w/o attachments)



PROJECT SURVEY CONTROL							FACILITIES LEGEND					
NEW CONTROL MONUMENT LOCATIONS							ID	FACILITY	FOUNDATION	GROUND LOCATION	REMARKS	
MONUMENT NO.	PLANT COORDINATES		PLANT ELEVATION	STATE PLANE COORDINATES		NGV88 ELEVATION						
	NORTH/SOUTH	EAST/WEST		NORTHING	EASTING							
BN-1	S 1211.75	E 6262.75	-	852,711.6253	860,581.3127	-	001A	HEAT RECOVERY STEAM GENERATOR/STACK 1A	XB8B-52301	2000.00	6000.00	CL STACK
BN-2	S 1785.25	E 6133.50	-	862,140.2921	860,530.8975	-	001B	HEAT RECOVERY STEAM GENERATOR/STACK 1B	XB8B-52301	2307.00	6000.00	CL STACK
BN-3	S 1785.25	E 6133.50	-	862,140.2921	860,530.8975	-	001C	HEAT RECOVERY STEAM GENERATOR/STACK 1C	XB8B-52301	2307.00	6000.00	CL STACK
BN-4	S 2037.25	E 6103.50	-	861,338.8038	860,494.1911	-	002A	HEAT RECOVERY STEAM GENERATOR/STACK 2A	XB8B-52301	1347.00	6000.00	CL STACK
BN-5	S 2037.25	E 6103.50	-	861,338.8038	860,494.1911	-	002B	HEAT RECOVERY STEAM GENERATOR/STACK 2B	XB8B-52301	1347.00	6000.00	CL STACK
BN-6	S 2103.75	E 6114.75	-	860,812.1956	860,493.2737	-	002C	HEAT RECOVERY STEAM GENERATOR/STACK 2C	XB8B-52301	1378.00	6000.00	CL STACK
BN-7	S 2943.75	E 5298.00	-	859,490.6217	856,894.5583	-	003A	COMBUSTION TURBINE/GENERATOR UNIT 1A	XT0C-55101	2000.00	5778.10	CL AIR INLET
BN-8	S 8132.25	E 6308.50	-	858,791.4372	860,615.9153	-	003B	COMBUSTION TURBINE/GENERATOR UNIT 1B	XT0C-55101	2307.00	5778.10	CL AIR INLET
CP-1	S 2000.00	E 6000.00	-	861,927.4753	860,391.3358	-	003C	COMBUSTION TURBINE/GENERATOR UNIT 1C	XT0C-55101	2467.00	5778.10	CL AIR INLET
CP-2	S 2207.00	E 6000.00	-	861,820.2598	860,393.9418	-	004A	COMBUSTION TURBINE/GENERATOR UNIT 2A	XT0C-55101	1337.00	5778.10	CL AIR INLET
CP-3	S 2437.00	E 6000.00	-	861,470.9221	860,397.7941	-	004B	COMBUSTION TURBINE/GENERATOR UNIT 2B	XT0C-55101	1337.00	5778.10	CL AIR INLET
CP-4	S 2327.00	E 6000.00	-	862,000.6113	860,375.3394	-	004C	COMBUSTION TURBINE/GENERATOR UNIT 2C	XT0C-55101	1384.00	5778.10	CL AIR INLET
CP-5	S 2424.00	E 6000.00	-	860,293.8427	860,370.8444	-	005A	CT GENERATOR STEP-UP XFMR UNIT 1A	XT0C-55130	3784.00	5778.10	CL AIR INLET
CP-6	S 2784.00	E 6000.00	-	860,143.6581	860,363.7970	-	005B	CT GENERATOR STEP-UP XFMR UNIT 1B	XT0C-55130	-	-	-
Z-1	S 2000.00	E 6417.50	-	861,051.4983	860,811.7940	23.816	006A	CT GENERATOR STEP-UP XFMR UNIT 2A	1C1L-55130	-	-	-
Z-2	S 3000.00	E 6417.50	-	860,831.6208	860,797.4780	24.156	006B	CT GENERATOR STEP-UP XFMR UNIT 2B	1C1L-55130	-	-	-
Z-3	S 4000.00	E 6417.50	-	859,821.7033	860,783.1619	24.22	006C	CT GENERATOR STEP-UP XFMR UNIT 2C	1C1L-55130	-	-	-
Z-4	S 5000.00	E 6417.50	-	858,811.6058	860,768.8458	24.303	006D	CT GENERATOR STEP-UP XFMR UNIT 2D	1C1L-55130	-	-	-
CONTROL POINTS CP-1 THRU CP-5 ARE LOCATED AT CENTER OF STACKS.												
EXISTING CONTROL MONUMENT LOCATIONS							ID	FACILITY	FOUNDATION	GROUND LOCATION	REMARKS	
MONUMENT NO.	PLANT COORDINATES		PLANT ELEVATION	STATE PLANE COORDINATES		NGV88 ELEVATION						
	NORTH/SOUTH	EAST/WEST		NORTHING	EASTING							
1	S 3352.97	E 4687.01	88.55	860,815.0300	855,063.0252	12.45	007	ST GENERATOR STEP-UP XFMR UNIT 2	1C1B-55030	-	-	-
2	S 177.65	E 4888.59	67.87	863,768.2003	850,089.1500	12.37	008	ST GENERATOR STEP-UP XFMR UNIT 1	1C1B-55050	-	-	-
3	S 1288.80	E 6083.89	97.72	862,838.8024	860,483.2340	22.22	009	STEAM TURBINE UNIT 1	XT0A-50001	2110.00	5783.32	CL OF ST LP EXHAUST A
4	S 878.24	E 4497.88	60.88	855,470.1092	856,299.6025	15.28	010	STEAM TURBINE UNIT 2	XT0A-50001	2447.00	5783.32	CL OF ST LP EXHAUST A
5	S 858.27	E 7200.70	91.09	855,372.6835	861,301.3077	15.28	011	WASTE WATER SLUMP	XB5U-53853	-	-	-
							012	CT AIR INLET	XB5U-55120	-	-	-
							013	STEAM TURBINE AREA GROUND FLOOR	XB5A-51025	-	-	-
							014	CECH HEAT EXCHANGER	XB5U-52777	-	-	-
							015	CT ELECTRICAL EQUIPMENT ENCLOSURE	XB5A-55085	-	-	-
							016	COOLING TOWER WCC XFMR ENCLOSURE	XB5U-55160	-	-	-
							017	HV SWITCHGEAR ELECTRICAL EQUIP ENCLOSURE	XB5U-55165	-	-	-
							018	HRSO PIPE RACK/LINE OIL AREA	XB5B-52550	-	-	-
							019	HRSO PIPE RACK/PULD OIL AREA	XB5B-52530	-	-	-
							020	CYCLE CHEMICAL FEED	CB5U-53045	-	-	-
							021	COOLING TOWER PUMP PIT UNIT 1	XHRC-53801	2123.83	6087.73	CL PUMP (HRC-P-0018)
							022	COOLING TOWER PUMP PIT UNIT 2	XHRC-53801	2000.83	6087.73	CL PUMP (HRC-P-0018)
							023	COOLING TOWER BASIN	XHRC-53804	-	-	-
							024	COOLING TOWER ELEC EQUIPMENT ENCLOSURE	XHRC-55885	-	-	-
							027	CIRCULATING WATER CHEMICAL FEED	XB5U-52820	-	-	-
							031	EXCITATION COMPARTMENT	XB5U-55151	-	-	-
							036	CT GENERATOR EXCITATION XFMR	XB5U-55131	-	-	-
							037	SFC XFMR (TRANS B & C)	XT0C-55135	-	-	-
							038	CT GENERATOR XFMR ENCLOSURE	XB5U-55138	-	-	-
							044	CT LINE OIL SHED & ENCLOSURE	XB5U-55180	-	-	-
							055	CT GEN ELECTRICAL & CONT COUPT	XB5U-55120	-	-	-
							061	AMMONIA EVAPORATOR TANK	XB5U-55277	-	-	-
							080	CUL/STREAM METERING & REGULATING STATION 705	-	-	-	-
							081	330V RY COLLECTOR YARD	-	-	-	BY OTHERS
							082	300 VV COLLECTOR YARD	-	-	-	BY OTHERS
							083	ARMONIZED CONSTRUCTION WELL	-	3012.00	5385.50	CL WELL
							084	ARMONIZED CONSTRUCTION WELL	-	3198.48	5424.75	CL WELL
							085	FLORIDIAN ADAPTER WELL FAW-1	CB5U-53776	1771.00	6354.28	CL WELL
							089	FLORIDIAN ADAPTER WELL FAW-2	CB5U-53776	3080.00	6355.00	CL WELL
							090	FLORIDIAN ADAPTER WELL FAW-3	CB5U-53776	3877.00	6354.28	CL WELL
							098	OIL/WATER SEPARATOR	CS1U-53950	-	-	-
							101	FUEL OIL UNLOADING STATION	CB5U-55850	-	-	-
							102	FUEL OIL TANK	CB5U-55860	-	-	-
							103	FUEL OIL CONTAINMENT	CB5U-55854	-	-	-
							104	PIPE SLEEPERS	CB5U-53258	-	-	-
							105	STORM WATER SLUMP	CS1U-53952	-	-	-
							110	SERVICE/FIREWATER STORAGE TANK	CB5U-53725	-	-	-
							111	FIREWATER PUMP ENCLOSURE	CB5U-53727	-	-	-
							112	LIME & SODA ASH STORAGE SILD	CB5U-52711	-	-	-
							113	CHEMICAL PREP AREA	CB5U-52710	-	-	-
							114	POLYMER STORAGE	CB5U-52710	-	-	-
							115	H2 BULK STORAGE (BY P/L)	CB5U-52710	-	-	-
							116	SLUDGE HOLDING TANKS	CB5U-52710	-	-	-
							117	SLUDGIC STOCKYD AREA	CB5U-53708	-	-	-
							118	SDU CLARIFIER & REACTOR TANK	CB5U-53701	-	-	-
							119	CIRCULATING WATER SURGE TANK	CB5U-53705	-	-	-
							120	WATER TREATMENT AREA P/LC/WCC ENCLOSURE	CB5U-53735	-	-	-
							121	CHEMICAL STORAGE AREA	CB5U-53825	-	-	-
							122	CENTRAL LAB & STORAGE ENCLOSURE	CB5U-53776	-	-	-
							123	SLUDGE WASTE/RECIRC PUMP	CB5U-53776	-	-	-
							124	AMMONIA STORAGE TANK	CB5U-53730	-	-	-
							125	DEMIN WATER TRAILER AREA	CB5U-53740	-	-	-
							126	DEMINERALIZED WATER STORAGE TANK	CB5U-53720	-	-	-
							127	AUX BOILER AREA	CB5U-53401	-	-	-
							128	AUX BOILER CHEMICAL FEED	CB5U-53401	-	-	-
							129	STANDBY DIESEL GENERATOR	CB5U-55665	-	-	-
							130	DIESEL GENERATOR SWITCHGEAR ENCLOSURE	CB5U-55665	-	-	-
							131	COMMON AREA WCC ENCLOSURE & SUS	CB5U-55785	-	-	-
							135	CONTROL/ADMIN/WAREHOUSE BUILDING	CB5F-55301	3000.00	6125.00	SW CORNER COL ROW AH/A3
							136	PARKING AREA	-	-	-	-
							150	EAST LITILEY CORRIDOR	-	-	-	-
							151	MOTORISED SLIDE GATE	-	-	-	-
							155	SHING DATE	-	-	-	-
							156	WAREHOUSE UNLOADING AREA	-	-	-	-
							197	MISC MATERIAL ACCUMULATION FACILITY	-	3093.50	5486.00	SOUTH-WEST CORNER
							198	TRASH ROLL OFF AREA	-	2789.50	5363.00	SOUTH-WEST CORNER

1. SEE DRAWING CSTA-G1000 FOR OVERALL SITE PLOT PLAN.

LEGEND

EAST ELECTRICAL CORRIDOR

NOTES

NOTE: HORIZONTAL CONTROL IS BASED ON THE FLORIDA STATE PLANE COORDINATE - EAST ZONE (1983 NAD) SYSTEM. THE ELEVATIONS ARE BASED ON THE NAVD83 DATUM. PLANT GRID SYSTEM IS BASED ON STATE PLANE COORDINATE N 801.874533' E 860.29438' EQUALING PLANT GRID COORDINATE S 2,000.00' E 8,000.00'. THE PLANT GRID SYSTEM IS ROTATED 0.9413' CLOCKWISE FROM TRUE NORTH. PLANT ELEVATION 100.0' EQUALS 34.50' NAVD83 CONTROL MONUMENTS LABELED AS BENCHMARKS (BM) WILL BE A PERMANENT CONTROL POINT MONUMENT. SEE TYPICAL DETAIL OF THIS DRAWING. EXISTING CONTROL POINTS WERE PROVIDED BY ACRO-METRIC, INC.

ALL BACKCIRCLES PER ECN N-S-0219

APPROVED FOR CONSTRUCTION

Serial Number

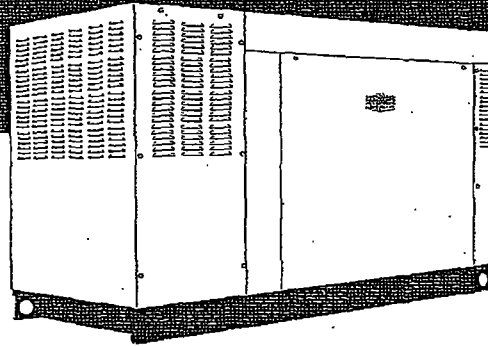
QT

3.0L

30kW

Model: 005220-0

STANDBY GENERATOR
OWNER'S MANUAL



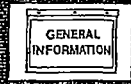
A new standard of reliability

QUIETSOURCE

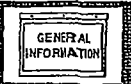
— ⚠ CAUTION ⚠ —

ONLY QUALIFIED ELECTRICIANS OR CONTRACTORS SHOULD ATTEMPT INSTALLATION!

This manual should remain with the unit.



Standby Generator Sets Specifications



SPECIFICATIONS

◆ GENERATOR

Type Synchronous
 Rotor Insulation Class F or H
 Stator Insulation Class H
 Total Harmonic Distortion < 3.5%
 Telephone Interference Factor (TIF) < 50
 Alternator Output Leads 3-phase 4-wire
 Bearings Sealed Ball
 Coupling Flexible Disc
 Load Capacity (Standby Rating) 30kW*

* NOTE: Generator rating and performance in accordance with ISO8528-5, BS5514, SAE J1349, ISO3046 and DIN 6271 Standards. KW rating is based on LPG fuel and may derate with natural gas.

Excitation System Direct
 Generator Output Voltage/kW - 60 Hz

	kW	Amp	CB Size
120/240V, 1-phase, 1.0 pf	30	125	150
120/208V, 3-phase, 0.8 pf	30	104	125
277/480V, 3-phase, 0.8 pf	30	45	50

Generator Locked Rotor KVA Available @ Voltage Dip of 35%
 Single-phase or 208 3-phase 60 KVA
 480V, 3-phase 70 KVA

◆ ENGINE

Make Generac
 Model V-type
 Cylinders and Arrangement 6
 Displacement 3.0 Liter
 Bore 3.55 in.
 Stroke 3.1 in.
 Compression Ratio 9.3-to-1
 Air Intake System Naturally Aspirated
 Valve Seats Hardened
 Lifter Type Hydraulic

Engine Parameters

Rated Synchronous RPM 60 Hz, 1800
 HP at rated kW 60 Hz, 48

Exhaust System

Exhaust Flow at Rated Output 60 Hz 200 cfm
 Exhaust Temperature at Rated Output 890° F

Combustion Air Requirements (Natural Gas)

Flow at rated power, 60 Hz 92 cfm

Governor

Type Electronic
 Frequency Regulation Isochronous
 Steady State Regulation ± 1/2%
 Adjustments:
 Speed Selectable

Engine Lubrication System

Type of Oil Pump Gear
 Oil Filter Full Flow, Cartridge
 Crankcase Oil Capacity 4 U.S. qts.

◆ COOLING SYSTEM

Type Closed
 Water Pump Belt Driven
 Fan Speed 2150
 Fan Diameter 18 inches
 Fan Mode Pusher
 Air Flow (inlet air including alternator and combustion air) 2460 ft³/min.
 Coolant Capacity (2.5 U.S. gal.)
 Heat Rejection to Coolant 115,000 Btu/h
 Maximum Operating Air Temp. on Radiator 60° C (150° F)
 Maximum Ambient Temperature 50° C (140° F)

◆ FUEL SYSTEM

Type of Fuel Natural Gas, Propane Vapor
 Carburetor Down Draft
 Secondary Fuel Regulator Standard
 Fuel Shut-off Solenoid Standard
 Operating Fuel Pressure 5 in. - 14 in. Water Column

Fuel Consumption - ft³/hr (Natural Gas/LPV)

Exercise Cycle	25% Load	50% Load	75% Load	100% Load
70/28.3	111/45	214/86.1	298/120	412/166

◆ ELECTRICAL SYSTEM

Battery Charge Alternator 12V, 30 Amp
 Static Battery Charger 2 Amp
 Recommended Battery 24F 525CCA
 System Voltage 12 Volts

Voltage Regulator

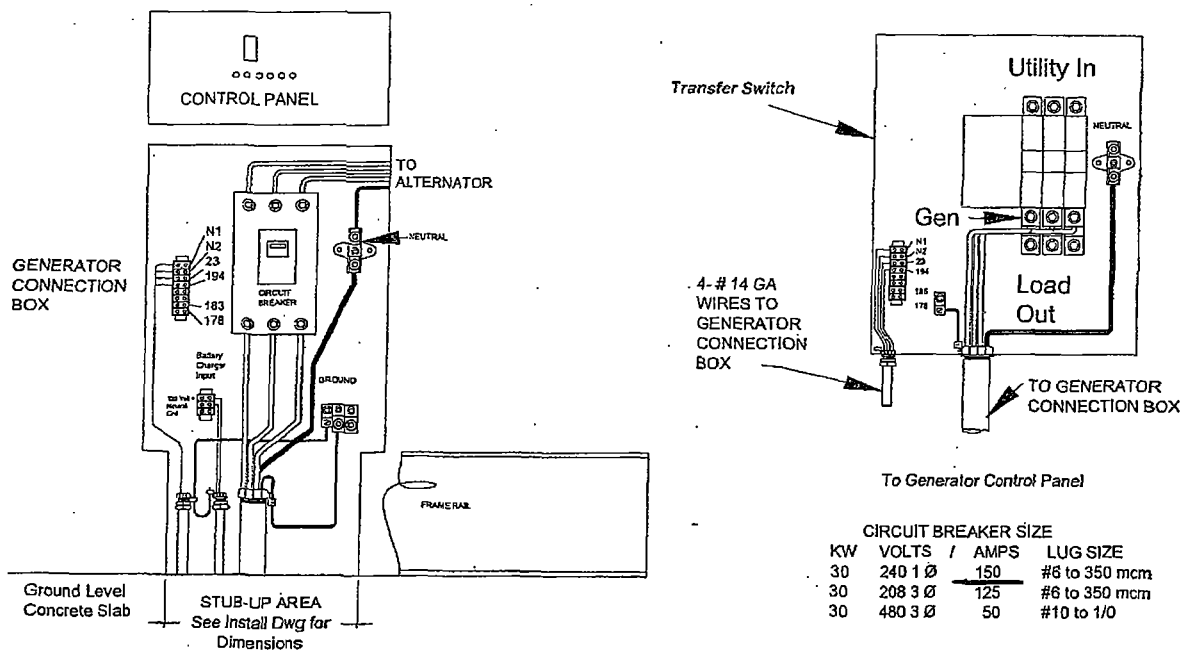
Type Electronic
 Sensing Single-phase
 Regulation ± 1%
 Features V/F Adjustable, Adjustable
 Voltage and Gain LED Indicators

Power Adjustment for Ambient Conditions

Temperature Deration
 3% for every 10° C above °C 25
 1.65% for every 10° above °F 77
 Altitude Deration
 1% for every 100 m above m 183
 3% for every 1000 ft. above ft. 600

Controller R-100

Figure 1 — Interconnections



◆ COLD WEATHER KIT

For cold climates, optional cold weather kit (part number 0F6148) is recommended. The kit includes:

- Battery Warmer
- 4" Junction Box with hardware
- 6 qt. pack 5W-30 synthetic oil (engine)

◆ RECONFIGURING THE FUEL SYSTEM

NOTE:

All models are configured for natural gas or LP vapor from the factory.

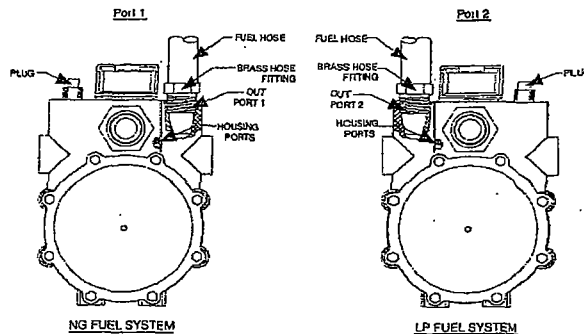
To reconfigure the fuel system from NG to LP, follow these steps:

1. Turn the main gas supply off.
2. Remove the carburetor fuel hose from the outlet port (Port 1) of the demand regulator (Figure 6.2).
3. Remove the brass hose fitting from the outlet port (Port 1) of the demand regulator.
4. Remove pipe plug from Port 2.
5. Install brass hose fitting into Port 2.
6. Install pipe plug into Port 1.
7. Connect carburetor gas hose to brass fitting.
8. Tighten all clamps and plugs.
9. Make sure fuel supply is of the proper pressure and type for configuration.

10. Reverse the procedure to convert back to natural gas.

11. The Dip switch inside the control panel must be in the LP or NG position when switching to different fuels.

Figure 6.2 — Reconfigure the Fuel System

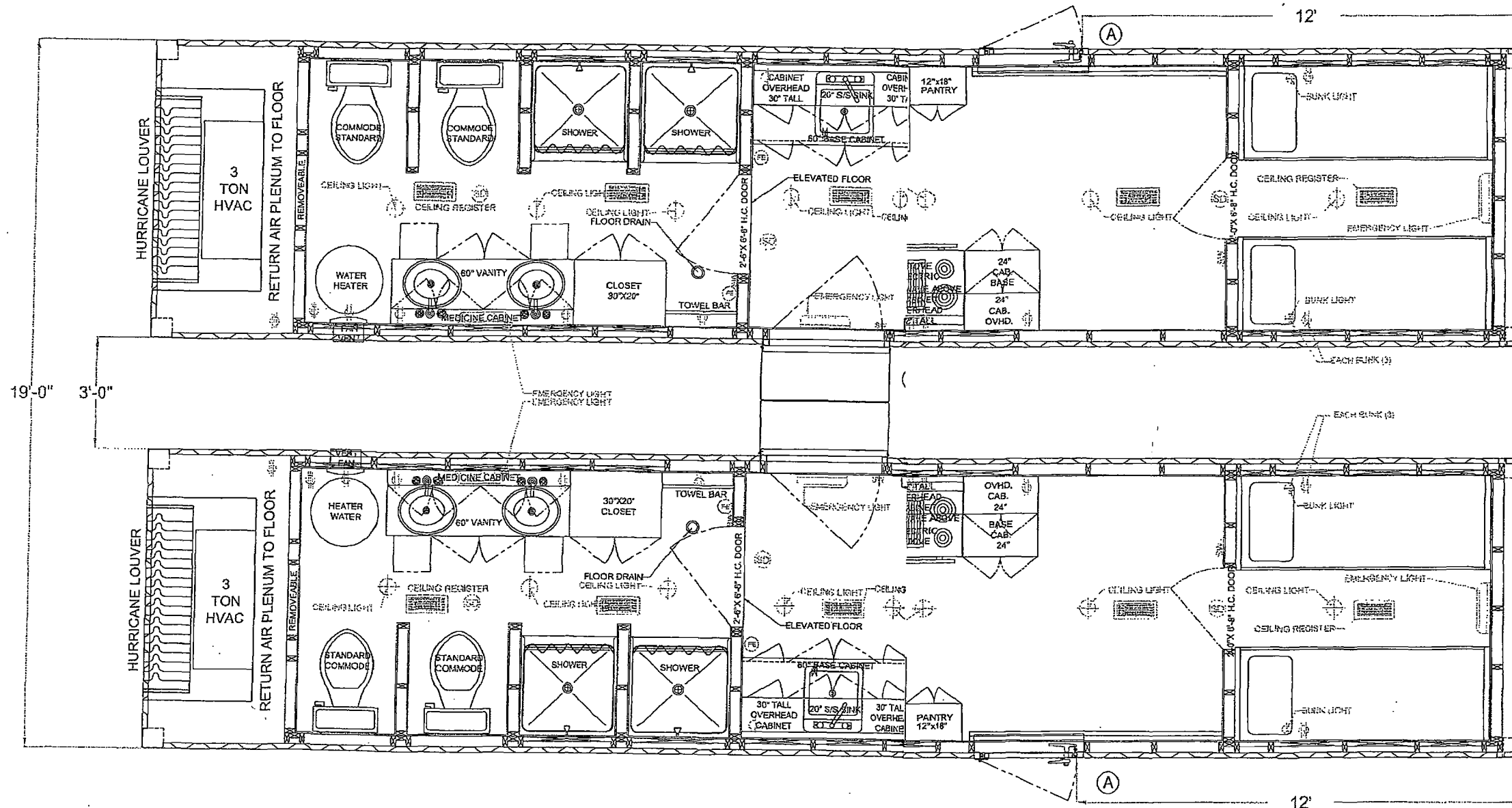


NOTE:

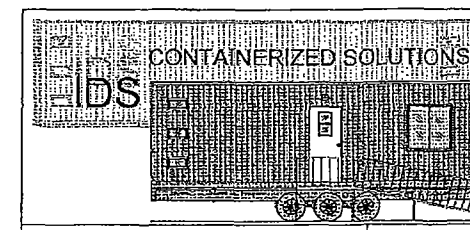
Port 1 is for NG only and Port 2 is for LP vapor only. No provision for dual fuel has been made.

NOTE:

For LP vapor application substitute LPG fuel inlet decal P/N 050280 for NG fuel inlet decal P/N 050279.



PLANT LOXAHATCHEE 6/6 MAN
EXTERIOR COATING ORGANIC ZINC
DUE DATE --2009
REVISICA"



International Disaster Services

703 Joe Tamplin Ind. Blvd.
 Macon, Georgia, U.S.A.
 Toll Free (866) 392-2674
 Local (478) 314-0750
 www.intl-disaster.com

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INTERNATIONAL DISASTER SERVICES
 MACON, GEORGIA, USA

6 MAN HURRICANE SHELTER
GENERAL ARRANGEMENT

SIZE	CLIENT	REV
B	F. P. & L. - PLANTLOXAHATCHEE-1 & 2	A
NUMBER	TYPE	SHEET
LAY1001	LAYOUT	1 of 1

REV.	DESCRIPTION
A	MOVE SIDE DOORS TO 12' FROM END
A	CHANGE PASS-TROM 18" TO 36"
	DESIGN