

RECIPROCATING INTERNAL COMBUSTION ENGINES
AIR GENERAL PERMIT REGISTRATION FORM

RECEIVED

OCT 26 2009

Part II. Notification to Permitting Office

(Detach and submit to appropriate permitting office; keep copy onsite)

Bureau of Air Monitoring
& Mobile Sources

Instructions: To give notice to the Department of an eligible facility's intent to use this air general permit, the owner or operator of the facility must detach and complete this part of the Air General Permit Registration Form and submit it to the appropriate Department of Environmental Protection or local air pollution control program office which has permitting authority. Please type or print clearly all information, and enclose the appropriate air general permit registration processing fee pursuant to Rule 62-4.050, F.A.C. (\$100 as of the effective date of this form)

0571252-004

Registration Type

Check one:

INITIAL REGISTRATION - Notification of intent to:

- Construct and operate a proposed new facility.
- Operate an existing facility not currently using an air general permit (e.g., a facility proposing to go from an air operation permit to an air general permit).

RE-REGISTRATION (for facilities currently using an air general permit) - Notification of intent to:

- Continue operating the facility after expiration of the current term of air general permit use.
- Continue operating the facility after a change of ownership.
- Make an equipment change requiring re-registration pursuant to Rule 62-210.310(2)(e), F.A.C., or any other change not considered an administrative correction under Rule 62-210.310(2)(d), F.A.C.

Surrender of Existing Air Operation Permit(s) - For Initial Registrations Only

If the facility currently holds one or more air operation permits, such permit(s) must be surrendered by the owner or operator upon the effective date of this air general permit. In such case, check the first box, and indicate the operation permits being surrendered. If no air operation permits are held by the facility, check the second box.

- All existing air operation permits for this facility are hereby surrendered upon the effective date of this air general permit; specifically permit number(s):
0571252-003-AG
- No air operation permits currently exist for this facility.

General Facility Information

Facility Owner/Company Name (Name of corporation, agency, or individual owner who or which owns, lease, operates, controls, or supervises the facility.)

Verizon Data Services

Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility owned, a registration form must be completed for each.)

Verizon Data Services - Data Center, Office, Power Chiller Plant Generaor Plants and FEIGS
Central Energy Plant

Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)

Street Address: 7701 East Telecom Parkway (address formerly One East Telecom Dr.)

City: Temple Terrace

County: Hillsborough

Zip Code: 33637

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
2009 OCT 16 PM 5:30
FINANCE & ACCOUNTING

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)
N/A - Add two new 2000 kW generators in mid November 2009. Remove one 1,100 kW generator and two 1,250 kW generators from permit based on the fact that these gneerators are no longer at the facility.

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Owner/Authorized Representative

Name and Position Title (Person who, by signing this form below, certifies that the facility is eligible to use this air general permit.)

Print Name and Title: Zach Feingold, Environmental Manager

Owner/Authorized Representative Mailing Address

Organization/Firm: Verizon Data Services

Street Address: P.O Box 725

City: Chino State: California County: San Bernardino Zip Code: 91708

Owner/Authorized Representative Telephone Numbers

Telephone: 909-620-5498

Fax: 909-629-1080

Cell phone (optional):

Facility Contact (If different from Owner/Authorized Representative)

Name and Position Title (Plant manager or person to be contacted regarding day-to-day operations at the facility.)

Print Name and Title: John Willis, Supervisor REO

Facility Contact Mailing Address

Organization/Firm: Verizon Data Services

Street Address: 7701 E. Telecom Parkway, Room B1-C02

City: Temple Terrace County: Hillsborough Zip Code: 33637

Facility Contact Telephone Numbers

Telephone: 813-978-4856

Fax: 813-978-4950

Cell phone (optional):

Owner/Authorized Representative Statement

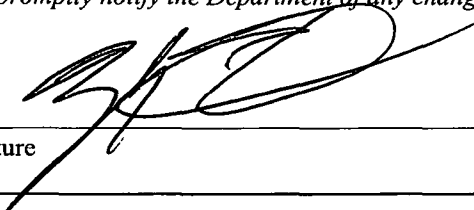
This statement must be signed and dated by the person named above as owner or authorized representative

I, the undersigned, am the owner or authorized representative of the owner or operator of the facility addressed in this Air General Permit Registration Form. I hereby certify, based on information and belief formed after reasonable inquiry, that the facility addressed in this registration form is eligible for use of this air general permit and that the statements made in this registration form are true, accurate and complete. Further, I agree to operate and maintain the facility described in this registration form so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof.

I will promptly notify the Department of any changes to the information contained in this registration form.

Signature

Date



10/14/09

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Fuel Consumption

If this is an **initial registration** for reciprocating internal combustion engine operations, provide an estimate of the total amount of fuel expected to be consumed over a 12-month period. Note: the general permit limits fuel consumption by all reciprocating internal combustion engines at the facility to 20,000 gallons per year of gasoline, 250,000 gallons per year of diesel fuel, 1.15 million gallons per year of propane, 40 million standard cubic feet per year of natural gas, or an equivalent prorated amount if multiple fuels are used

If this is a **re-registration** for reciprocating internal combustion engine operations, provide the highest 12-month total fuel consumption amount, in appropriate units, for the last five years. Indicate the 12-month period over which this fuel consumption occurred.

Highest fuel consumption in last 5 years -18,601 gallons of diesel fuel (01/01 - 12/31/2006).

Estimated additional annual fuel usage for two new generators = 160.1 gallons per hour per generator x 39 hours maximum operation from 2008 x 2 generators = 12,488 gallons diesel fuel.

Description of Facility

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Below, or as an attachment to this form, provide a description of the reciprocating internal combustion engine operations at the facility in sufficient detail to demonstrate the facility's eligibility for use of this air general permit and to provide a basis for tracking any future equipment or process changes at the facility. Describe all air pollutant-emitting processes and equipment at the facility, and identify any air pollution control measures or equipment used.

Data Center Generator Plant- Currently, six (6) Cummins diesel powered standby emergency generators are located in the Data Center Generator Plant (three (3) 1,100 kW and three (3) 2,250 kW). Each unit operated 39 hours in 2008. Diesel fuel is supplied to the Data Center Generator Plant by three (3) 20,000 gallon underground storage tanks.

Office Building Power/Chiller Plant-Three (3) Caterpillar diesel powered standby emergency generators are located in the Office Building Power/Chiller Plant (two (2) 1,500 kW and one (1) 1,000 kW). Each unit operated 18 hours in 2008. Diesel fuel is supplied by one (1) 10,000 gallon aboveground storage tank (FAC#298627929).

Proposed New Power/Chiller Plant - Three (3) Cummins diesel powered standby emergency generators previously removed from the Data Center Generator Plant in 2008 (one (1) 1,100 kW unit and two (2) 1,250 kW units), as indicated in the 2008 re-registration, were never installed in the proposed New Power/Chiller Plant, as indicated in the 2008 re-registration for this site. These three generators have been permanently removed from the site.

Combined diesel fuel consumption at the entire site in 2008 was 14,625 gallons.

Proposed FIOS Central Energy Plant - Two (2) new Kohler Power Systems 2,000 kW diesel powered emergency generators/Mitsubishi engines (engine serial numbers 14635 and 14637, respectively) will be installed at the proposed new FIOS Central Energy Plant. These units will be connected to two (2) of the three (3) existing 20,000 gallon underground storage tanks. The specification sheets for the new identical 2,000 kW units are attached. Based on the above and previous "Fuel Consumption" section of this form, all units combined will use less than 250,000 gallons/year of diesel fuel.

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KOHLER POWER SYSTEMS

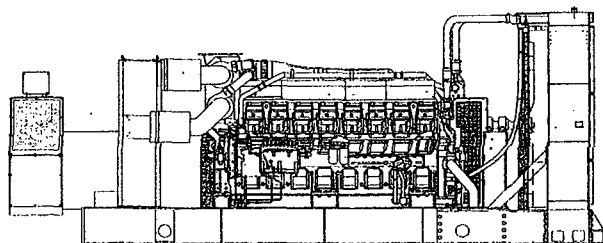
380-4160 V

Diesel



Ratings Range

60 Hz			
Standby:	kW	1590-2000	
	kVA	1988-2500	
Prime:	kW	1440-1820	
	kVA	1800-2275	



Standard Features

- Kohler Co. provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL 2200 listing.
- The generator set accepts rated load in one step.
- The 60 Hz generator set meets NFPA 110, Level 1, when equipped with the necessary accessories and installed per NFPA standards.
- The generator set complies with ISO 8528-5, Class G3, requirements for transient performance.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA) to conform to Tier 2 nonroad emissions regulations.
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Alternator features:
 - The pilot-excited, permanent-magnet (PM) alternator provides superior short-circuit capability.
 - The brushless, rotating-field alternator has broadrange reconnectability.
- Other features:
 - The low coolant level shutdown prevents overheating (standard on radiator models only).
 - The generator set is direct-mounted to the skid.
 - An electronic, isochronous governor delivers precise frequency regulation.

Generator Set Ratings

Alternator	Voltage	Ph	Hz	150°C Rise Standby Rating		130°C Rise Standby Rating		125°C Rise Prime Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
7M4054	220/380	3	60	1590/1988	3020	1590/1988	3020	1440/1800	2735	1440/1800	2735
	240/416	3	60	1840/2300	3192	1840/2300	3192	1800/2250	3123	1680/2100	2915
	277/480	3	60	2000/2500	3007	2000/2500	3007	1820/2275	2736	1820/2275	2736
7M4056	220/380	3	60	1850/2313	3513	1790/2238	3400	1750/2188	3324	1650/2063	3134
	240/416	3	60	2000/2500	3470	1950/2438	3383	1820/2275	3157	1780/2225	3088
	277/480	3	60	2000/2500	3007	2000/2500	3007	1820/2275	2736	1820/2275	2736
7M4058	220/380	3	60	2000/2500	3798	1950/2438	3703	1820/2275	3457	1790/2238	3400
	240/416	3	60	2000/2500	3470	2000/2500	3470	1820/2275	3157	1820/2275	3157
	277/480	3	60	2000/2500	3007	2000/2500	3007	1820/2275	2736	1820/2275	2736
7M4176	220/380	3	60	2000/2500	3798	2000/2500	3798	1820/2275	3457	1820/2275	3457
7M4292	347/600	3	60	2000/2500	2406	2000/2500	2406	1820/2275	2189	1820/2275	2189
7M4374	2400/4160	3	60	2000/2500	347	2000/2500	347	1820/2275	316	1820/2275	316

RATINGS: All three-phase units are rated at 0.8 power factor. **Standby Ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3048/1, BS 5514, AS 2789, and DIN 6271. **Prime Power Ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3048/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIB-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. **GENERAL GUIDELINES FOR DERATION:** Altitude: Derate 2.5% per 300 m (984 ft.) elevation above 1500 m (4921 ft.). Temperature: Derate 11.5% per 10°C (18°F) temperature above 40°C (104°F) up to a maximum temperature of 55°C (131°F).

Alternator Specifications

Specifications	Alternator
Type	4-Pole, Rotating-Field
Exciter type	Brushless, Permanent-Magnet Pilot Exciter
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material	Class H, Synthetic, Nonhygroscopic
Temperature rise	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125%
Voltage regulation, no-load to full-load (with <0.5% drift due to temp. variation)	3-Phase Sensing, ±0.25%
One-step load acceptance	100% of Rating
Unbalanced load capability	100% of Rated Standby Current
Peak motor starting kVA:	(35% dip for voltages below)
380 V	7M4176 (4 bus bar) 5400
480 V	7M4054 (4 bus bar) 7000
480 V	7M4056 (4 bus bar) 7200
480 V	7M4058 (4 bus bar) 11000
600 V	7M4292 (4 bus bar) 4250
4160 V	7M4374 (6 lead) 6200

- NEMA MG1, IEEE, and ANSI standards compliance for temperature rise and motor starting.
- Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- Sustained short-circuit current enabling downstream circuit breakers to trip without collapsing the alternator field.
- Self-ventilated and dripproof construction.
- Superior voltage waveform from two-thirds pitch windings and skewed stator.
- Digital solid-state, volts-per-hertz voltage regulator with ±0.25% no-load to full-load regulation.
- Brushless alternator with brushless pilot exciter for excellent load response.

Application Data

Engine

Engine Specifications	
Manufacturer	Mitsubishi
Engine model	S16R-Y2PTAW2-1
Engine type	4-Cycle, Turbocharged
Cylinder arrangement	16 V
Displacement, L (cu. in.)	65.4 (3989)
Bore and stroke, mm (in.)	170 x 180 (6.69 x 7.09)
Compression ratio	14.0:1
Piston speed, m/min. (ft./min.)	648 (2126)
Main bearings: quantity, type	7, Precision Half-Shell
Rated rpm	1800
Max. power at rated rpm, kWm (BHP)	2180 (2923)
Cylinder head material	Cast Iron
Crankshaft material	Forged Steel
Governor type	Electronic
Frequency regulation, no-load to full-load	Isochronous
Frequency regulation, steady state	±0.25%
Frequency	Fixed
Air cleaner type, all models	Dry

Exhaust

Exhaust System	
Exhaust manifold type	Dry
Exhaust flow at rated kW, m ³ /min. (cfm)	544 (19209)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	526 (979)
Maximum allowable back pressure, kPa (in. Hg)	5.9 (1.7)
Exhaust outlet size at engine hookup, mm (in.)	See ADV drawing

Engine Electrical

Engine Electrical System		
Battery charging alternator:		
Ground (negative/positive)		Negative
Volts (DC)		24
Ampere rating		30
Starter motor rated voltage (DC)		Dual, 24
Battery, recommended cold cranking amps (CCA):		
Quantity, CCA rating each		Four, 1150
Battery voltage (DC)		12

Fuel

Fuel System	
Fuel supply line, min. ID, mm (in.)	19 (0.75)
Fuel return line, min. ID, mm (in.)	19 (0.75)
Max. lift, engine-driven fuel pump, m (ft.)	1.0 (3.0)
Max. fuel flow, Lph (gph)	660 (174)
Max. fuel pump restriction, kPa (in. Hg)	10 (3.0)
Fuel filter: quantity, type	4, Secondary
Recommended fuel	#2 Diesel

Lubrication

Lubricating System	
Type	Full Pressure
Oil pan capacity, L (qt.)	200 (211)
Oil pan capacity with filter, L (qt.)	230 (243)
Oil filter: quantity, type	4, Cartridge
Oil cooler	Water-Cooled

Application Data

Cooling

Radiator System	
Ambient temperature, °C (°F)	40 (104)
Engine jacket water capacity, L (gal.)	170 (44.9)
Radiator system capacity, including engine, L (gal.)	367 (96.9)
Engine jacket water flow, Lpm (gpm)	1850 (489)
Charge cooler water flow, Lpm (gpm)	920 (243)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	780 (44374)
Heat rejected to charge cooler water at rated kW, dry exhaust, kW (Btu/min.)	780 (44374)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	2057 (81)
Fan kWm (HP)	81 (109)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)
High Ambient Radiator System	
Ambient temperature, °C (°F)	50 (122)
Engine jacket water capacity, L (gal.)	170 (44.9)
Radiator system capacity, including engine, L (gal.)	386 (102)
Engine jacket water flow, Lpm (gpm)	1850 (489)
Charge cooler water flow, Lpm (gpm)	920 (243)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	780 (44374)
Heat rejected to charge cooler water at rated kW, dry exhaust, kW (Btu/min.)	780 (44374)
Water pump type	Centrifugal
Fan diameter, including blades, mm (in.)	2362 (93)
Fan kWm (HP)	63 (84)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125 (0.5)
Remote Radiator System*	
Exhaust manifold type	Dry
Connection sizes:	
Jacket water engine inlet, mm (in.)	95 (3.75)
Jacket water engine outlet, mm (in.)	95 (3.75)
Intercooler water engine inlet, mm (in.)	83 (3.25)
Intercooler water engine outlet, mm (in.)	83 (3.25)
Static head allowable above engine, kPa (ft. H ₂ O)	98 (32.8)

* Contact your local distributor for cooling system options and specifications based on your specific requirements.

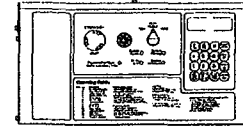
Operation Requirements

Air Requirements	
Radiator-cooled cooling air, m ³ /min. (scfm)†	2112 (74600)
High ambient radiator-cooled cooling air, m ³ /min. (scfm)†	2532 (89400)
Cooling air required for generator set when equipped with city water cooling or remote radiator, based on 14°C (25°F) rise, m ³ /min. (scfm)†	
991 (35100)	
Combustion air, m ³ /min. (cfm)	206 (7274)
Heat rejected to ambient air:	
Engine, kW (Btu/min.)	180 (10240)
Alternator, kW (Btu/min.)	97 (5516)

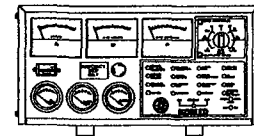
† Air density = 1.20 kg/m³ (0.075 lbm/ft³)

Fuel Consumption	
Diesel, Lph (gph) at % load	Standby Rating
100%	606 (180.1)
75%	442 (116.8)
50%	299 (79.0)
25%	164 (43.2)
Diesel, Lph (gph) at % load	Prime Rating
100%	536 (141.6)
75%	403 (106.6)
50%	271 (71.6)
25%	154 (40.6)

Controllers



Decision-Maker™ 550 Controller
 Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Alternator safeguard circuit protection. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to G6-46 for additional controller features and accessories.



Decision-Maker™ 3+, 16-Light Controller
 Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features. 12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to G6-30 for additional controller features and accessories.

Additional Standard Features

- Alternator Protection
- Oil Drain Extension
- Operation and Installation Literature

Available Accessories

Open Unit

- Exhaust Silencer, Hospital (kit: PA-361627)
- Exhaust Silencer, Critical (kit: PA-361625)
- Flexible Exhaust Connector, Stainless Steel

Cooling System

- Block Heater
 [recommended for ambient temperatures below 20°C (68°F)]

Fuel System

- Flexible Fuel Lines
- Fuel Pressure Gauge

Electrical System

- Battery
- Battery Charger, Equalize/Float Type
- Battery Heater
- Battery Rack and Cables

Engine and Alternator

- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Alternator Strip Heater
- Bus Bar Kits (standard on 7M alternators, 380-600 volt only)
- Crankcase Emissions Canister
- Fuel/Water Separator
- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)
- Oil Temperature Gauge
- Rated Power Factor Testing
- Spring Isolators

Paralleling System

- Load-Sharing Module
- Voltage Adjustment Control (manual)

Maintenance

- General Maintenance Literature Kit
- Maintenance Kit (includes air, oil, and fuel filters)
- NFPA 110 Literature
- Overhaul Literature Kit
- Production Literature Kit

Controller

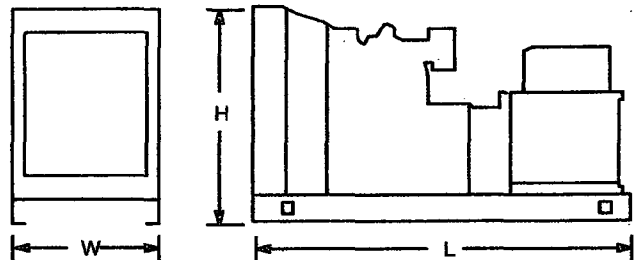
- Common Failure Relay Kit
- Communication Products and PC Software
- Customer Connection Kit
- Dry Contact Kit (isolated alarm)
- Remote Annunciator Panel
- Remote Audiovisual Alarm Panel
- Remote Emergency Stop Kit
- Remote Mounting Cable
- Run Relay Kit

Miscellaneous Accessories

- _____
- _____
- _____
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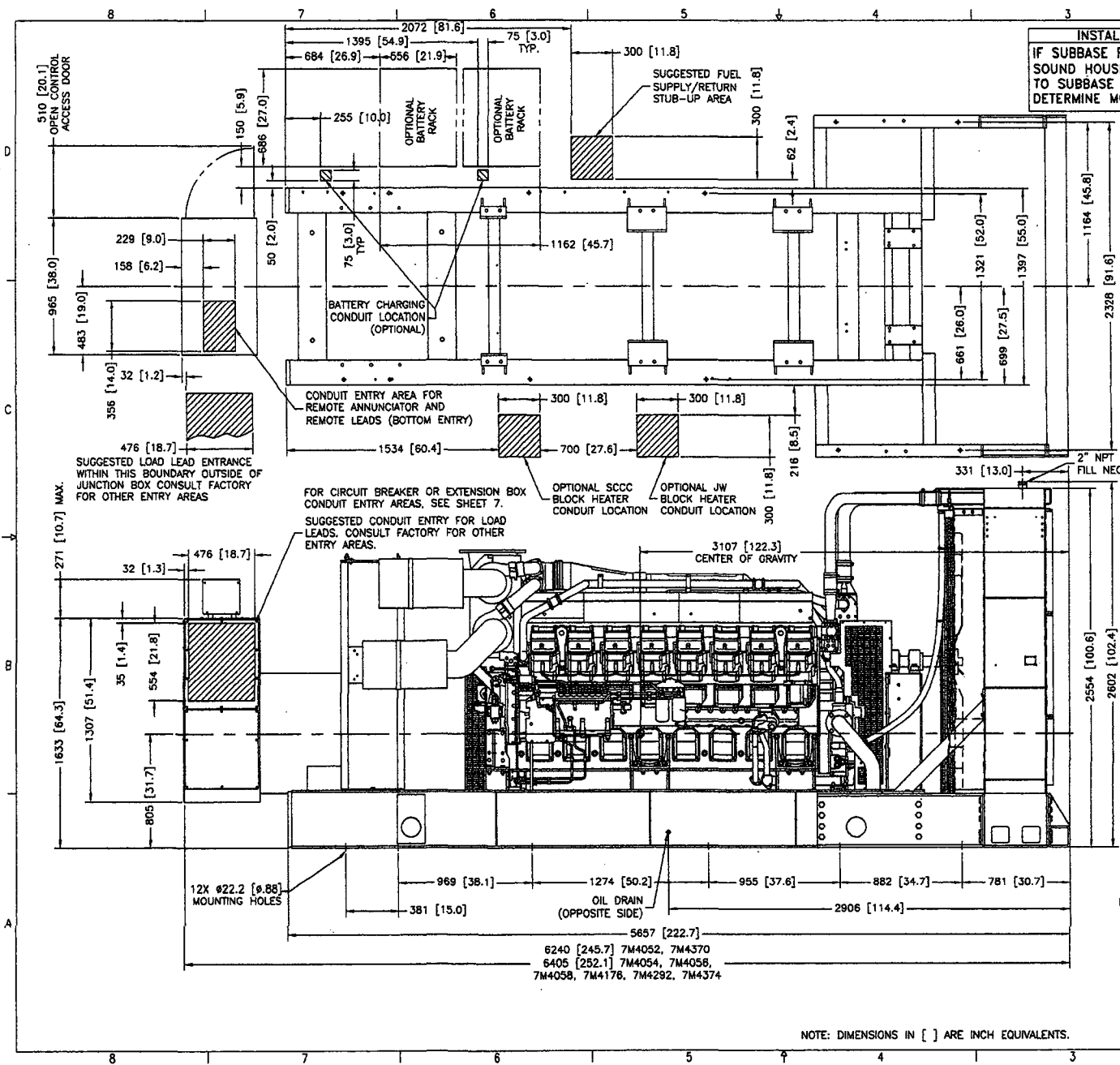
Dimensions and Weights

Overall Size, L x W x H, max., mm (in.): 6445 x 2766 x 3091
 (253.7 x 108.9 x 121.7)
 Weight (radiator model), wet, max., kg (lb.): 15876 (35000)



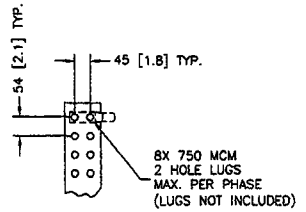
Note: This drawing is provided for reference only and should not be used for planning the installation. Contact your local distributor for more detailed information.

DISTRIBUTED BY:

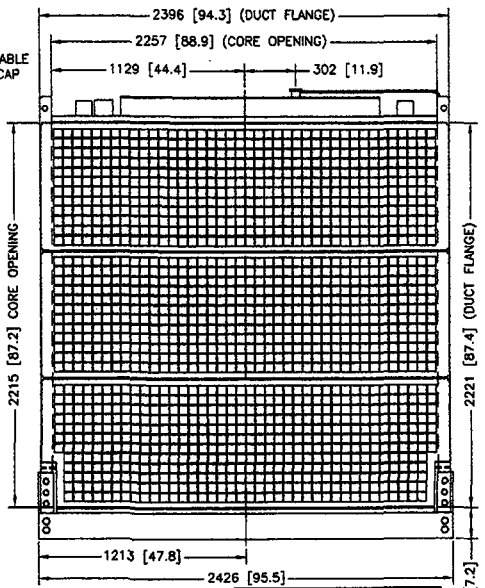


INSTALLATION NOTE
 IF SUBBASE FUEL TANK AND/OR SOUND HOUSING IS USED, REFER TO SUBBASE FUEL TANK ADV TO DETERMINE MOUNTING LOCATIONS.

REV	DATE	REVISION	BY
-	12-8-00	NEW ORIGINAL [79126]	RAC
A	3-9-07	(A-3) 1750 ADDED, (A-4,5,6) 7M4050, 7M4174, 7M4290 & 7M4389 REMOVED, 7M4054, 7M4058, 7M4292 & 7M4374 ADDED.	RAC
		(C-1) SECOND BLOCK HEATER CONDUIT LOCATION ADDED. [80042]	RAC



BUS CONNECTIONS
 LO, L1, L2, & L3 TYP.



NOTE:
 MAXIMUM WET WEIGHT OF GENSET LESS ACCESSORIES: 15422 KG [34000 LBS].

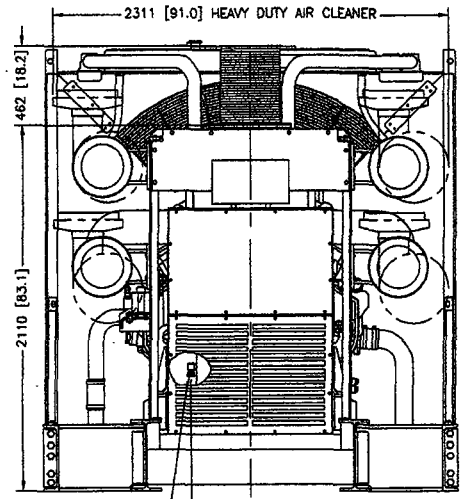
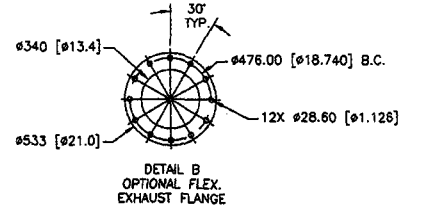
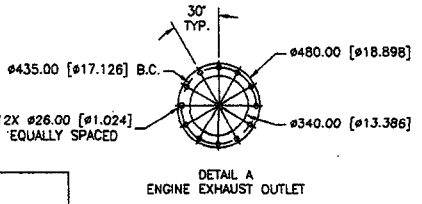
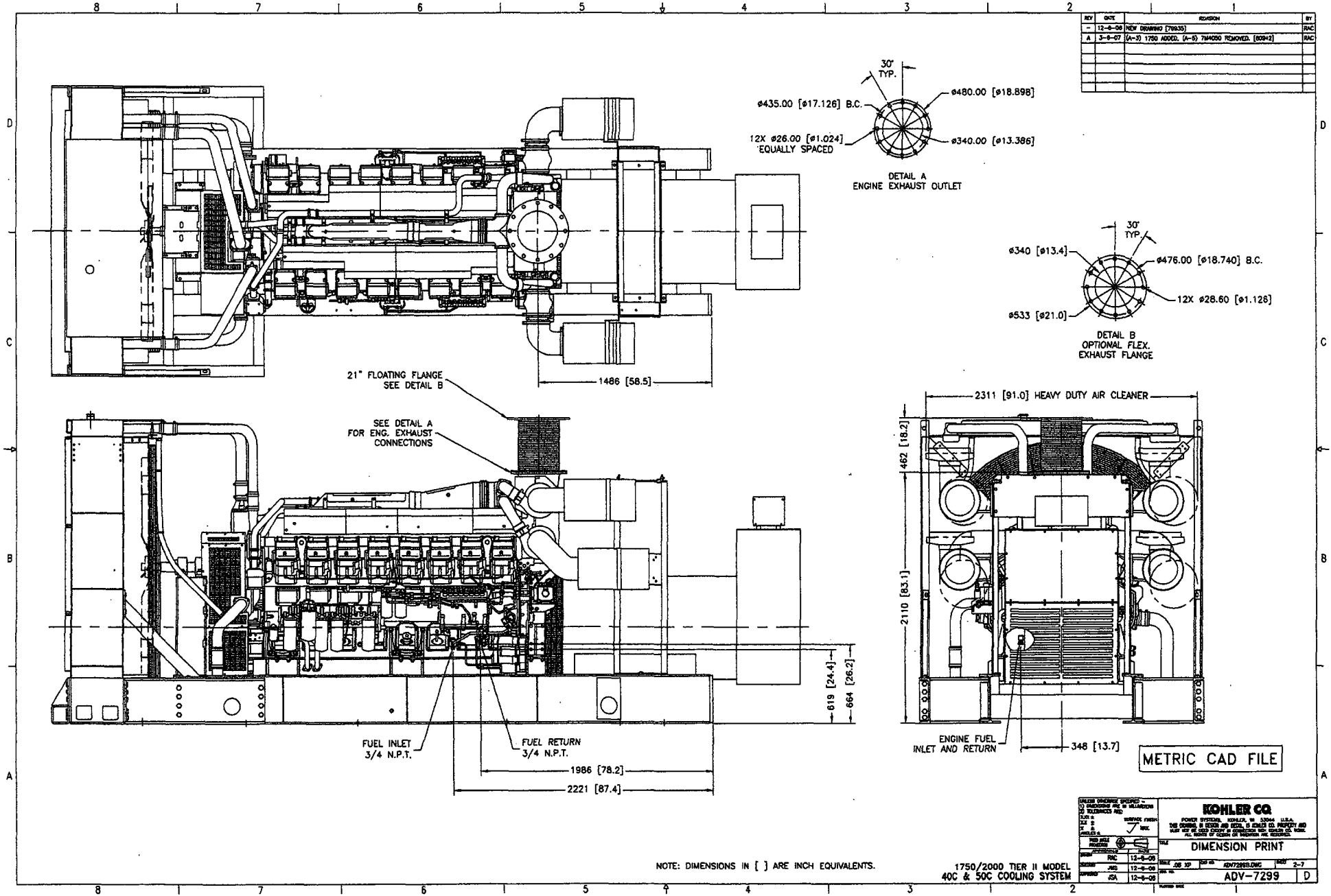
METRIC CAD FILE

KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING IS UNLESS AND SHALL BE KEPT AS PROPERTY AND NOT BE LOANED, COPIED, OR REPRODUCED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF KOHLER CO.	
DIMENSION PRINT	
SHEET NO. 1-7 REV. 12-8-00 DATE 12-8-00 DRAWN JSA CHECKED JSA	PART NO. ADV7299/ENC SIZE 1-7 ADV-7299

NOTE: DIMENSIONS IN [] ARE INCH EQUIVALENTS.

1750/2000 TIER II MODEL
 40C COOLING SYSTEM

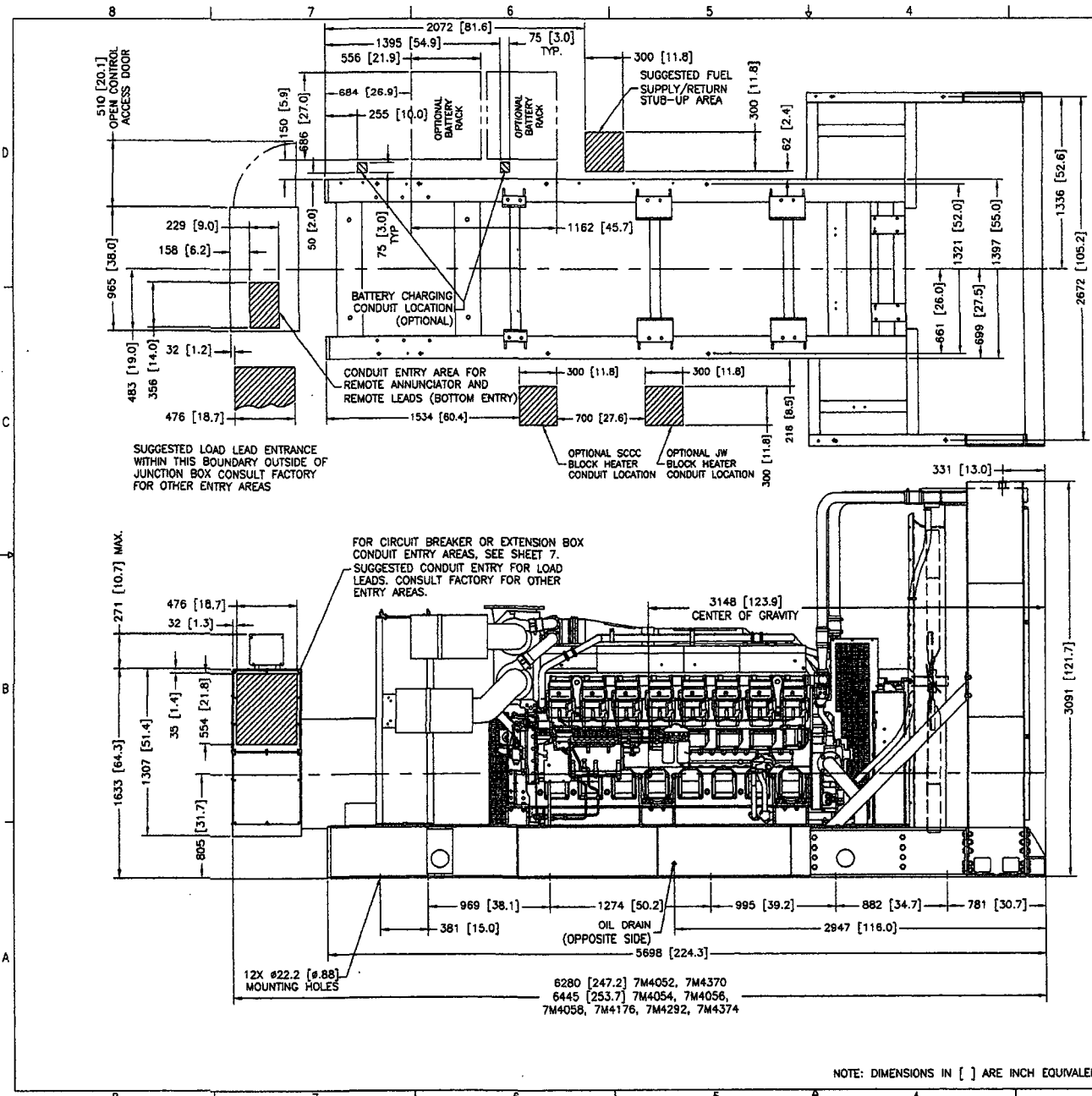
REV	DATE	REVISION	BY
-	12-8-00	NEW DRAWING [70835]	RAC
A	3-8-07	(A-3) 1750 ADDED, (A-5) 704020 REMOVED, [80942]	RAC



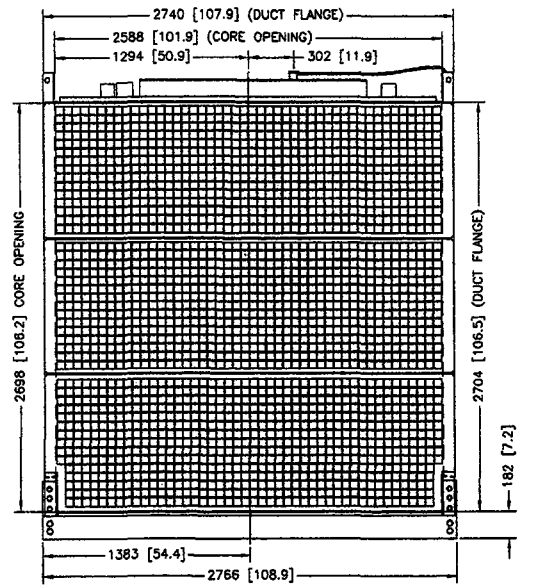
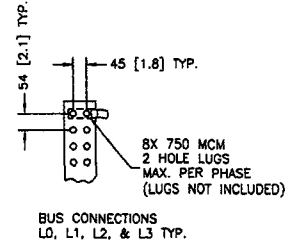
METRIC CAD FILE

<small>PLEASE OBSERVE CAREFULLY: 1) DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED. 2) DIMENSIONS ARE TO UNLESS OTHERWISE NOTED. 3) DIMENSIONS ARE TO UNLESS OTHERWISE NOTED. 4) DIMENSIONS ARE TO UNLESS OTHERWISE NOTED.</small>		KOHLER CO. <small>POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THE KOHLER NAME AND DESIGN IS REGISTERED TRADEMARK AND SERVICE MARK OF KOHLER CO. OR KOHLER INC. ALL RIGHTS OF COHLER OR TRADEMARK ARE RESERVED.</small>	
<small>DATE: 12-8-00 DRAWN BY: RAC CHECKED BY: JMS APPROVED BY: JSA</small>		<small>SCALE: 1:1 SHEET NO. 2-7 PART NO. ADV-7299</small>	
<small>1750/2000 TIER II MODEL 40C & 50C COOLING SYSTEM</small>		<small>ADV-7299</small>	

NOTE: DIMENSIONS IN [] ARE INCH EQUIVALENTS.



REV	DATE	REVISION	BY
-	12-8-06	NEW DRAWING (70933)	RAC
A	3-6-07	(A-A.3.5) 7M4056, 7M4174, 7M4290 & 7M4376 REMOVED. 7M4056, 7M4056, 7M4292 & 7M4374 ADDED. (C-8) SECOND BLOCK HEATER CONDUIT LOCATION ADDED. (60942)	RAC



NOTE:
MAXIMUM WET WEIGHT OF GENSET LESS
ACCESSORIES: 16329 KG (36000 LBS).

METRIC CAD FILE

8280 [247.2] 7M4052, 7M4370
6445 [253.7] 7M4054, 7M4056,
7M4056, 7M4176, 7M4292, 7M4374

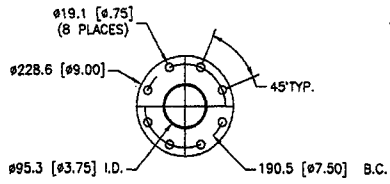
NOTE: DIMENSIONS IN [] ARE INCH EQUIVALENTS.

2000 TIER II MODEL
SOC COOLING SYSTEM

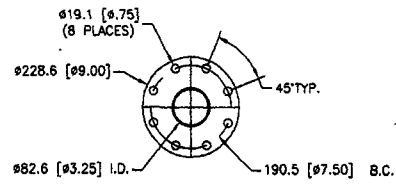
<small>PLEASE CONTACT SERVICE:</small> (1) ENGINEER OR (2) MANUFACTURER (3) SUPPLIER OF PARTS (4) DISTRIBUTOR (5) SALES (6) SERVICE CENTER (7) LOCAL SERVICE CENTER (8) LOCAL SERVICE CENTER (9) LOCAL SERVICE CENTER (10) LOCAL SERVICE CENTER (11) LOCAL SERVICE CENTER (12) LOCAL SERVICE CENTER (13) LOCAL SERVICE CENTER (14) LOCAL SERVICE CENTER (15) LOCAL SERVICE CENTER (16) LOCAL SERVICE CENTER (17) LOCAL SERVICE CENTER (18) LOCAL SERVICE CENTER (19) LOCAL SERVICE CENTER (20) LOCAL SERVICE CENTER (21) LOCAL SERVICE CENTER (22) LOCAL SERVICE CENTER (23) LOCAL SERVICE CENTER (24) LOCAL SERVICE CENTER (25) LOCAL SERVICE CENTER (26) LOCAL SERVICE CENTER (27) LOCAL SERVICE CENTER (28) LOCAL SERVICE CENTER (29) LOCAL SERVICE CENTER (30) LOCAL SERVICE CENTER (31) LOCAL SERVICE CENTER (32) LOCAL SERVICE CENTER (33) LOCAL SERVICE CENTER (34) LOCAL SERVICE CENTER (35) LOCAL SERVICE CENTER (36) LOCAL SERVICE CENTER (37) LOCAL SERVICE CENTER (38) LOCAL SERVICE CENTER (39) LOCAL SERVICE CENTER (40) LOCAL SERVICE CENTER (41) LOCAL SERVICE CENTER (42) LOCAL SERVICE CENTER (43) LOCAL SERVICE CENTER (44) LOCAL SERVICE CENTER (45) LOCAL SERVICE CENTER (46) LOCAL SERVICE CENTER (47) LOCAL SERVICE CENTER (48) LOCAL SERVICE CENTER (49) LOCAL SERVICE CENTER (50) LOCAL SERVICE CENTER (51) LOCAL SERVICE CENTER (52) LOCAL SERVICE CENTER (53) LOCAL SERVICE CENTER (54) LOCAL SERVICE CENTER (55) LOCAL SERVICE CENTER (56) LOCAL SERVICE CENTER (57) LOCAL SERVICE CENTER (58) LOCAL SERVICE CENTER (59) LOCAL SERVICE CENTER (60) LOCAL SERVICE CENTER (61) LOCAL SERVICE CENTER (62) LOCAL SERVICE CENTER (63) LOCAL SERVICE CENTER (64) LOCAL SERVICE CENTER (65) LOCAL SERVICE CENTER (66) LOCAL SERVICE CENTER (67) LOCAL SERVICE CENTER (68) LOCAL SERVICE CENTER (69) LOCAL SERVICE CENTER (70) LOCAL SERVICE CENTER (71) LOCAL SERVICE CENTER (72) LOCAL SERVICE CENTER (73) LOCAL SERVICE CENTER (74) LOCAL SERVICE CENTER (75) LOCAL SERVICE CENTER (76) LOCAL SERVICE CENTER (77) LOCAL SERVICE CENTER (78) LOCAL SERVICE CENTER (79) LOCAL SERVICE CENTER (80) LOCAL SERVICE CENTER (81) LOCAL SERVICE CENTER (82) LOCAL SERVICE CENTER (83) LOCAL SERVICE CENTER (84) LOCAL SERVICE CENTER (85) LOCAL SERVICE CENTER (86) LOCAL SERVICE CENTER (87) LOCAL SERVICE CENTER (88) LOCAL SERVICE CENTER (89) LOCAL SERVICE CENTER (90) LOCAL SERVICE CENTER (91) LOCAL SERVICE CENTER (92) LOCAL SERVICE CENTER (93) LOCAL SERVICE CENTER (94) LOCAL SERVICE CENTER (95) LOCAL SERVICE CENTER (96) LOCAL SERVICE CENTER (97) LOCAL SERVICE CENTER (98) LOCAL SERVICE CENTER (99) LOCAL SERVICE CENTER (100) LOCAL SERVICE CENTER		KOHLER CO. POWER SYSTEMS, DIVISION OF KOHLER CO. 1000 KOHLER DRIVE, PORTLAND, IN 47371 TEL: 765/486-1000 FAX: 765/486-1001 WWW.KOHLER.COM ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES. DIMENSION PRINT DATE: 12-8-06 DRAWN BY: JSA CHECKED BY: JSA APPROVED BY: JSA PART NO: ADV7299L000 REV: 3-7 ADV-7299 D
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8 7 6 5 4 3 2 1

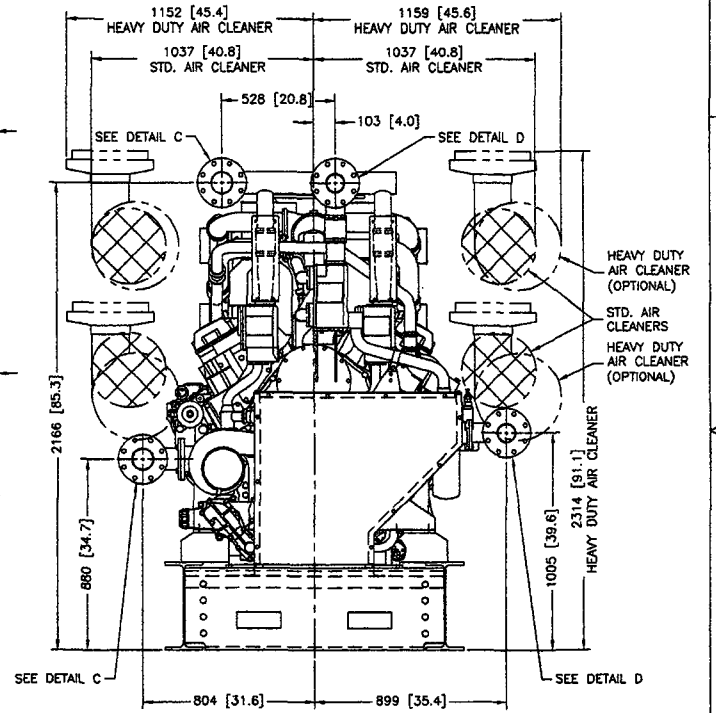
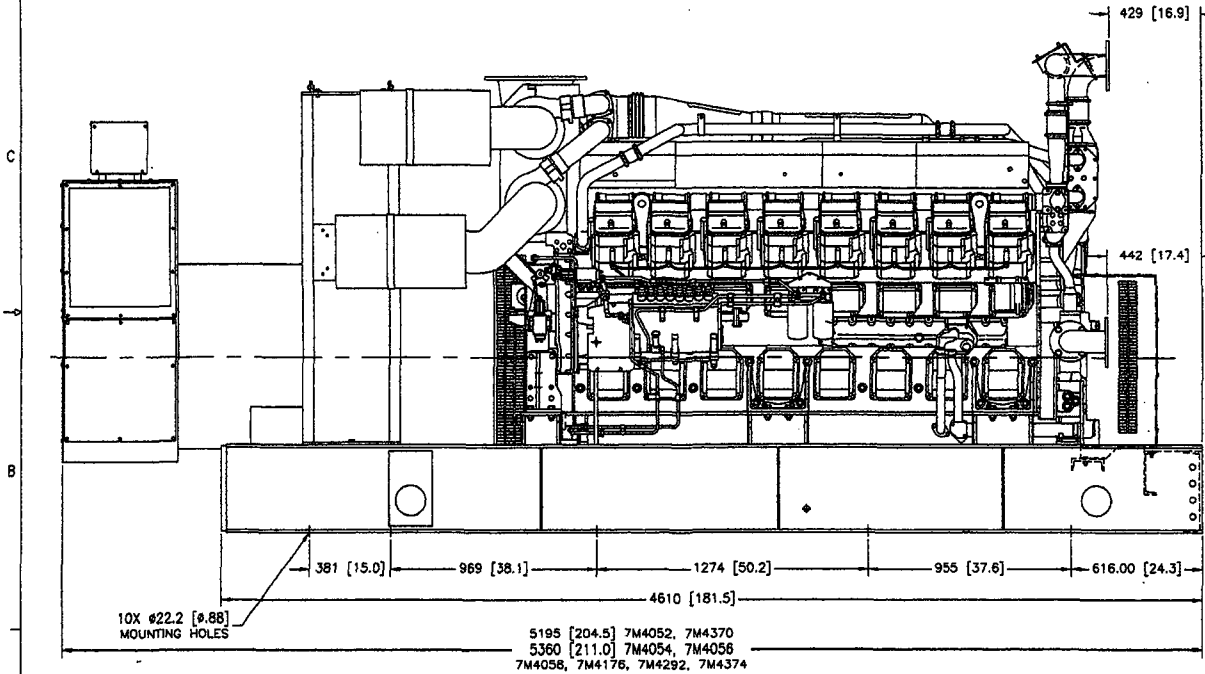
REV	DATE	REVISION	BY
-	12-8-08	NEW DRAWING (719235)	TRAC
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		DETAIL E REMOVED, (C-2) SEE VIEW D THIS VIEW E, (80M-2)	TRAC



DETAIL C



DETAIL D



METRIC CAD FILE

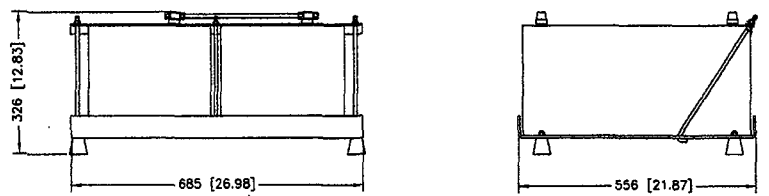
NOTES:
 1) FOR PLAN VIEW SEE SHEET 1.
 2) DIMENSIONS IN [] ARE INCH EQUIVALENTS.

1750/2000 TIER II MODEL ADV-7299

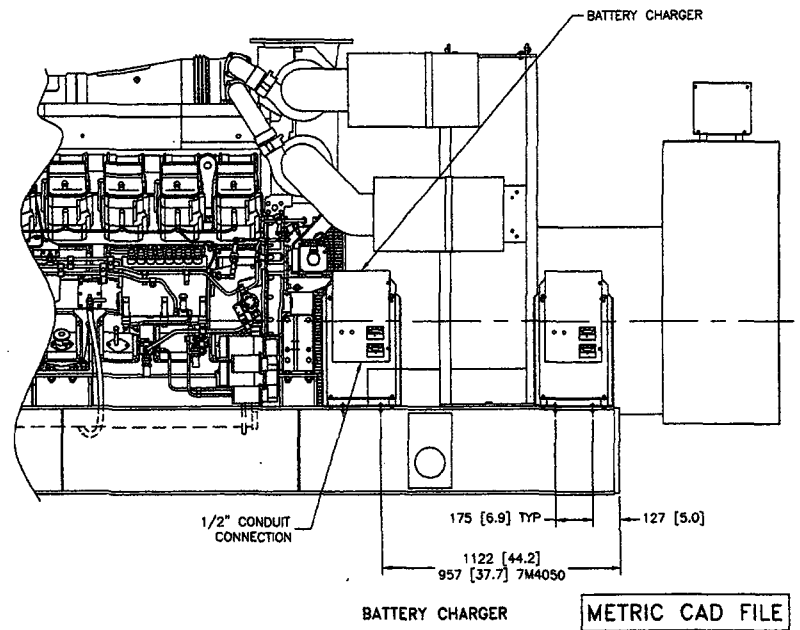
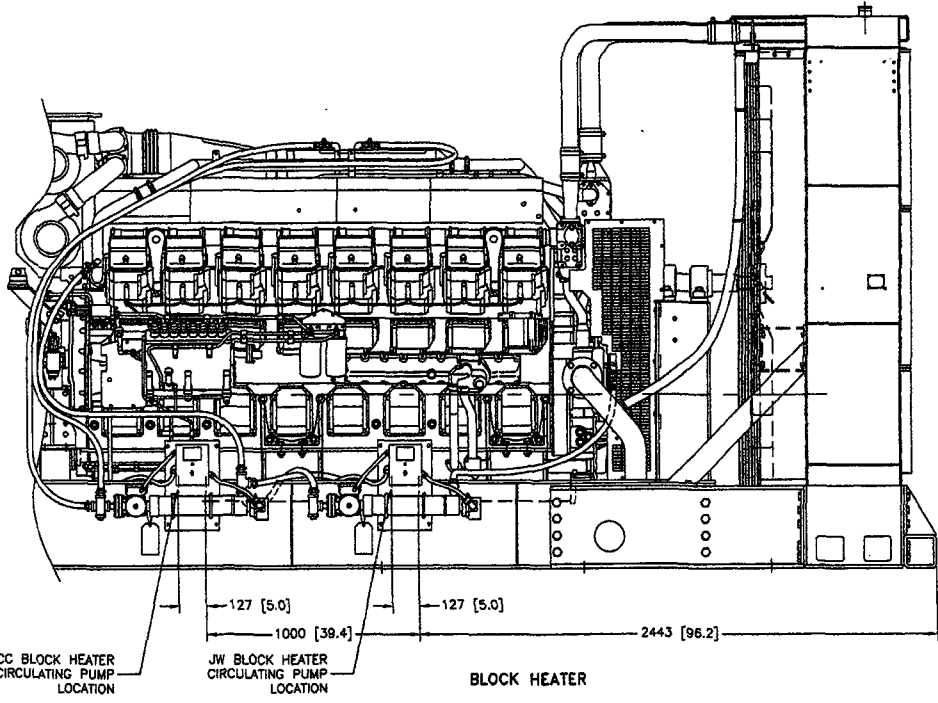
CHECK COORDINATE SYSTEM - (1) INSURE THE X Y Z COORDINATES OF SURFACES ARE 12.0 = SURFACE FINISH 12.0 = SURFACE FINISH 12.0 = SURFACE FINISH 12.0 = SURFACE FINISH		KOHLER CO. POWER SYSTEMS, KENOSHA, WI 53140 U.S.A. THE ABOVE IS A CAD FILE. IT IS NOT A DRAWING AND SHOULD NOT BE USED FOR CONSTRUCTION WITHOUT A FULL SET OF DIMENSIONS AND TOLERANCES.	
APPROVED	DATE	DIMENSION PRINT	
TRAC	12-8-08	SCALE	0.1
DATE	12-8-08	FILE NO.	ADV7299.DWG
APPROVED	JSA	12-8-08	REV

8 7 6 5 4 3 2 1

REV	DATE	REVISION	BY
-	12-8-06	NEW DRAWING, (70935)	MAC
A	3-8-07	(A-3) 1750 ADDED, (5-8) SECOND BLOCK HEATER ADDED. (80942) MAC	MAC



BATTERY AND BATTERY RACK (2-REQ'D)
SCALE: 2X

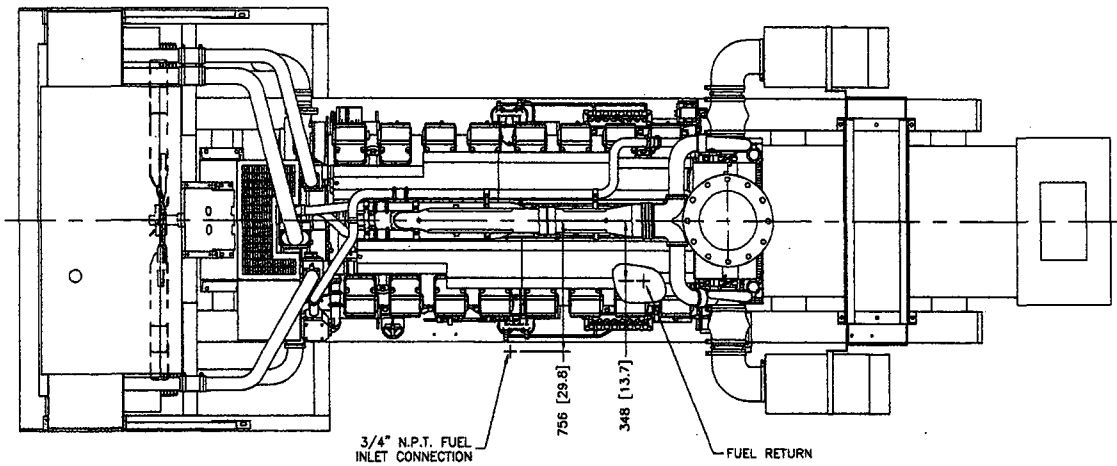


NOTE: DIMENSIONS IN [] ARE INCH EQUIVALENTS.

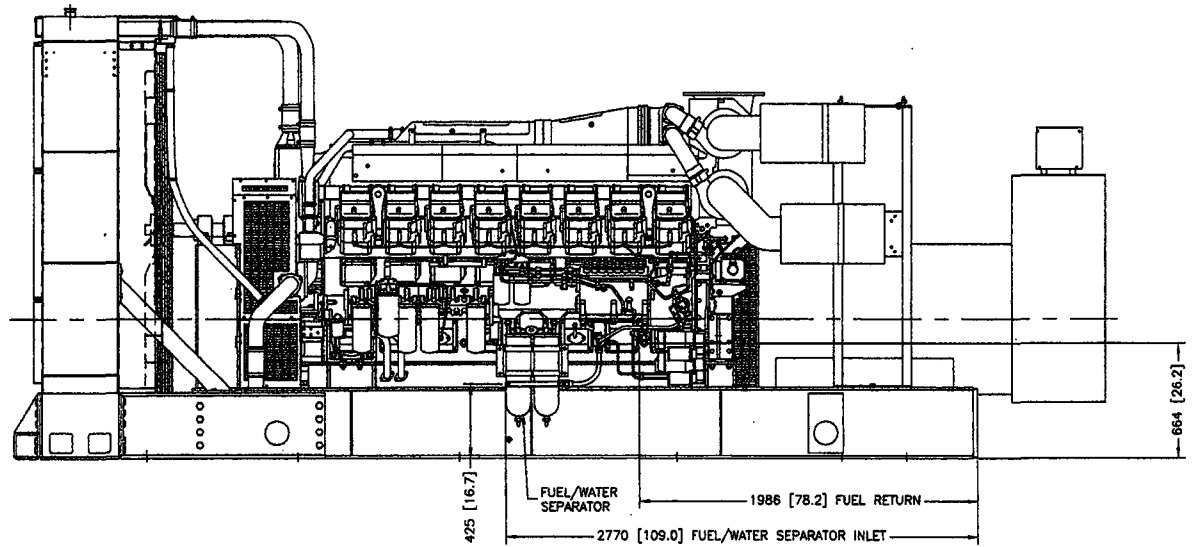
1750/2000 TIER II MODEL
40C & 50C COOLING SYSTEM

METRIC CAD FILE

CHECKED BY: _____ DATE: _____ DRAWN BY: _____ DATE: _____ APPROVED BY: _____ DATE: _____		KOHLER CO. POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THE COMPANY IS LOCATED AND OPERATES IN SEVERAL COUNTRIES AND HAS MANY SALES OFFICES IN VARIOUS PARTS OF THE WORLD. ALL DIMENSIONS OF THIS DRAWING ARE METRIC.
DIMENSION PRINT SCALE: 1:1 SHEET NO. 5-7 ADV7299E.DWG ADV-7299		DATE: 12-8-06 TIME: 12:43:08 USER: mac



OPTIONAL FUEL INLET AND RETURN LOCATIONS



FUEL AND WATER SEPARATOR

NOTE: DIMENSIONS IN [] ARE INCH EQUIVALENTS.

1750/2000 TIER II MODEL
40C & 50C COOLING SYSTEM

METRIC CAD FILE

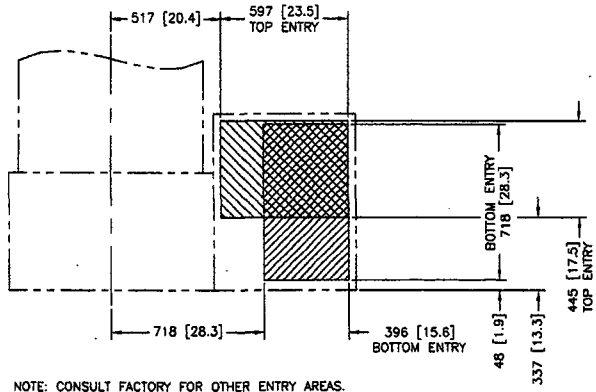
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-	12-8-06	INDY DRAWING [71935]	BAC
A	3-6-07	(A-3) 1750 ADDED, (A-4) 714050 REMOVED. [60942]	BAC

<small> (1) UNLESS OTHERWISE SPECIFIED - ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED </small>	
<small> DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED </small>	<small> UNLESS OTHERWISE SPECIFIED </small>
<small> DIMENSIONS IN MILLIMETERS UNLESS OTHERWISE SPECIFIED </small>	<small> UNLESS OTHERWISE SPECIFIED </small>

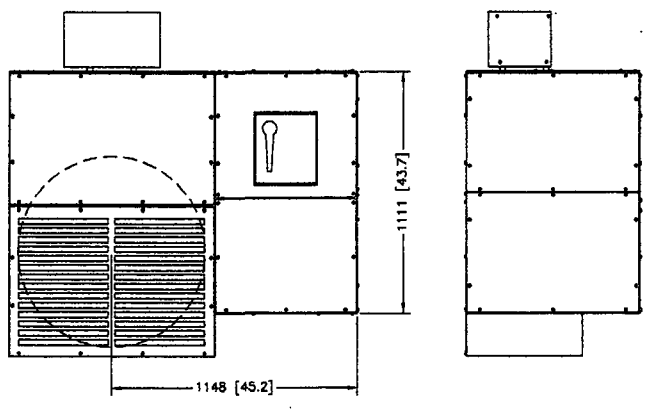
KOHLER CO.
 POWER SYSTEMS, WILMINGTON, OH 43084 U.S.A.
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 DIMENSION PRINT
 ADV-7299

DATE	12-8-06	BY	BAC
DESIGNED BY	JSA	CHECKED BY	JSA
DRAWN BY	JSA	APPROVED BY	JSA

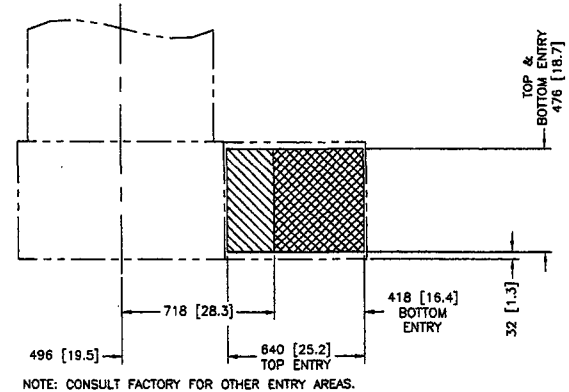
REV	DATE	DESCRIPTION	BY
-	12-8-08	NEW DRAWING. [79935]	RAC
A	3-8-07	(A-3) 1750 ADDED. [80942]	RAC



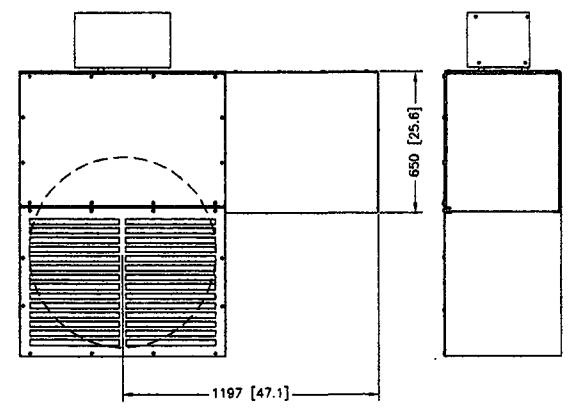
NOTE: CONSULT FACTORY FOR OTHER ENTRY AREAS.



1600-3000A BREAKER KITS



NOTE: CONSULT FACTORY FOR OTHER ENTRY AREAS.



EXTENSION BOX KIT

CIRCUIT BREAKER KIT LOAD CONNECTIONS:			QTY PER
CIRCUIT BREAKER	TRIP AMPS	MECHANICAL CONNECTOR (INCLUDED FOR A, B & C PHASE)	PHASE
UL SQUARE D	1600-2000	(1) #4-600MCM OR (2) 1/0-250MCM	6
UL SQUARE D	2500	(1) 1/0-750MCM OR (2) 1/0-300MCM	8
UL SQUARE D	3000	(1) #4-600MCM OR (2) 1/0-250MCM	8
IEC MERLIN GERIN	1600-2000	(1) #2-600MCM	6
IEC MERLIN GERIN	2500	(1) #2-600MCM	8

NEUTRALS FOR ABOVE UNITS SIZED FOR MAX (8) 750MCM 2-HOLE COMPRESSION LUGS (NOT INCLUDED)
SEE SHEET 1 FOR TYPICAL LUG HOLE SPACING.

METRIC CAD FILE

UNLESS OTHERWISE SPECIFIED -
 (1) DIMENSIONS ARE IN MILLIMETERS
 (2) TOLERANCES ARE:
 FRACTIONS DECIMALS
 1/16" 0.03125
 1/8" 0.0625
 1/4" 0.125
 3/8" 0.1875
 1/2" 0.25
 5/8" 0.3125
 3/4" 0.375
 7/8" 0.4375
 1" 0.5
 1 1/8" 0.5625
 1 1/4" 0.625
 1 3/8" 0.6875
 1 1/2" 0.75
 1 5/8" 0.8125
 1 3/4" 0.875
 1 7/8" 0.9375
 2" 1.0
 2 1/8" 1.0625
 2 1/4" 1.125
 2 3/8" 1.1875
 2 1/2" 1.25
 2 5/8" 1.3125
 2 3/4" 1.375
 2 7/8" 1.4375
 3" 1.5
 3 1/8" 1.5625
 3 1/4" 1.625
 3 3/8" 1.6875
 3 1/2" 1.75
 3 5/8" 1.8125
 3 3/4" 1.875
 3 7/8" 1.9375
 4" 2.0

KOHLER CO.
 POWER SYSTEMS, HEADQUARTERS IN ST. LOUIS, MO, U.S.A.
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DIMENSION PRINT

DATE: 12-8-08
 DRAWN BY: JAC
 CHECKED BY: JAC
 PROJECT NO: ADV7299
 SHEET NO: 2-7
 DRAWING NO: ADV-7299

NOTE: DIMENSIONS IN [] ARE IN ENGLISH EQUIVALENTS.

1750/2000 TIER II MODEL



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF TRANSPORTATION AND AIR QUALITY
WASHINGTON, DC 20460



CERTIFICATE OF CONFORMITY
2008 MODEL YEAR

Manufacturer: **MITSUBISHI HEAVY INDUSTRIES, LTD**
Engine Family: **8MVXL65.4BBA**
Certificate Number: **MVX-NRCI-08-22**
Intended Service Class: **NR 9 (>560)**
Fuel Type: **DIESEL**
FELs: g/kW-hr NMHC+NOx: N/A NOx: N/A PM: N/A
Effective Date: **12/12/2007**
Date Issued: **12/12/2007**

Karl J. Simon, Director
Compliance and Innovative Strategies Division
Office of Transportation and Air Quality

Pursuant to Section 213 of the Clean Air Act (42 U.S.C. section 7547) and 40 CFR Part 89, and subject to the terms and conditions prescribed in those provisions, this certificate of conformity is hereby issued with respect to the test engines which have been found to conform to applicable requirements and which represent the following nonroad engines, by engine family, more fully described in the documentation required by 40 CFR 89 and produced in the stated model year.

This certificate of conformity covers only those nonroad compression-ignition engines which conform in all material respects to the design specifications that applied to those engines described in the documentation required by 40 CFR Part 89 and which are produced during the model year stated on this certificate of the said manufacturer, as defined in 40 CFR Part 89.

It is a term of this certificate that the manufacturer shall consent to all inspections described in 40 CFR 89.129-96 and 89.506-96 and authorized in a warrant or court order. Failure to comply with the requirements of such a warrant or court order may lead to a revocation or suspension of this certificate for reasons specified in 40 CFR Part 89. It is also a term of this certificate that this certificate may be revoked or suspended or rendered void ab initio for other reasons specified in 40 CFR Part 89.

This certificate does not cover nonroad engines sold, offered for sale, or introduced, or delivered for introduction, into commerce in the U.S. prior to the effective date of the certificate.

 AIR RESOURCES BOARD	MITSUBISHI HEAVY INDUSTRIES, LTD.	EXECUTIVE ORDER U-R-035-0251
		New Off-Road Compression-Ignition Engines

Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2008	8MVXL65.4BBA	65.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler			Generator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
KW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	--	--	5.5	0.6	0.19	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 23 day of January 2008.



Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-035-0251

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
3MVXL65.4BBA	S16R-Y2PTAW2-1	S16R-PTAW2	2923@1800	698	1120	NA	NA	NA	DITC, CAC
8MVXL65.4BBA	S16R-Y2PTAW-1	S16R-PTAW	2346@1800	554	892	NA	NA	NA	DITC, CAC

Certified for US EPA-Tier 2 / Constant Speed

Standard Model [2000kWe/60Hz]

S16R-Y2PTAW2-1

SPECIFICATION SHEET

MITSUBISHI

DIESEL ENGINES

GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled	
Aspiration	Turbo-Charged, Inter Cooler (Fresh water to Cooler)	
Cylinder Arrangement	60°V	
No. of Cylinders	16	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)	180	(7.09)
Displacement liter(in ³)	65.37	(3989)
Compression Ratio	14.0:1	
Dry Weight - Engine only - kg(lb)	6680	(14729)
Wet Weight - Engine only - kg(lb)	6830	(15060)

PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load		
Electric Governor - %	±0.25 or better	
Maximum Overspeed Capacity - rpm	2100	
Moment of inertia of Rotating Components - kgf·m ² (lbf·ft ²)	80.83	(1918.5)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel at 1800rpm	1/215	

ENGINE MOUNTING

Maximum Bending Moment at Rear Face of Flywheel Housing - kgf·m(lbf·ft)	450	(3255.6)
---	-----	----------

AIR INLET SYSTEM

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H ₂ O (in.H ₂ O)	400	(15.7)
With Dirty Filter Element - mm H ₂ O (in.H ₂ O)	635	(25.0)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H ₂ O (in.H ₂ O)	600	(23.6)
---	-----	--------

LUBRICATION SYSTEM

Oil Pressure at Idle - kgf/cm ² (psi)	2.3	(29.43)
at Rate Speed - kgf/cm ² (psi)	5.65	(71.93)
Maximum Oil Temperature - °C(°F)	110	230
Oil Capacity of Standard Pan	High - liter (U.S.gal)	200 (53)
	Low - liter (U.S.gal)	140 (37.0)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal)	230 (60.8)	
Maximum Angle of Installation (Std. Pan)	Front Down	5°
(Engine Only)	Front Up	5°
	Side to Side	22.5°

COOLING SYSTEM

Coolant Capacity of Jacket (Engine only) - liter (U.S.gal)	140	(37.0)
Coolant Capacity of Air cooler (Engine only) - liter (U.S.gal)	30	(7.9)
Maximum External Friction Head at Engine Outlet - kgf/cm ² (psi)		
(For Jacket and Air Cooler)	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft)	10	(32.8)
Standard Thermostat (modulating)Range of Jacket - °C(°F)	71.85	(160.185)
Standard Thermostat (modulating)Range of Air Cooler - °C(°F)	42.55	(108.131)
Maximum Coolant Temperature at Engine Outlet of Jacket - °C(°F)	98	(208)
Minimum Coolant Expansion Space - % of System Capacity		
(For Jacket and Air Cooler)	10	(0.4)
Maximum Coolant Temperature at Intercooler Inlet, PTAW type - °C(°F)	45	(113)
Maximum Air Restriction on Discharge Side of Radiator and Fan - mm H ₂ O(in.H ₂ O)	10	(0.4)

APPLICATION : GENERATOR

Pub. No. T13-0636-E

Certified for US EPA-Tier 2 / Constant Speed

Standard Model [2000kWe/60Hz]

mitsubishi

S16R-Y2PTAW2-1

SPECIFICATION SHEET

DIESEL ENGINES

FUEL SYSTEM

Fuel Injector _____ Mitsubishi PS8 Type × 2
Maximum Suction Head of Feed Pump - mm Hg (in. Hg) _____ 75 (3.0)
Maximum Static Head of Return Pipe - mm Hg (in.Hg) _____ 150 (5.9)

STARTING SYSTEM

Battery Charging Alternator - V- Ah _____ 24-30
Starting Motor Capacity - V - kW _____ 24-7.5 × 2
Maximum Allowable Resistance of Cranking Circuit - m • • _____ 1.5
Recommended Minimum Battery Capacity
At 5°C (41°F) and above - Ah _____ 300
Below 5°C (41°F) through - 5°C (23°F) _____ 600

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Pub. No. T13-0636-E

Certified for US EPA-Tier 2 / Constant Speed
Standard Model [2000kWe/60Hz]

..... MITSUBISHI
..... DIESEL ENGINES

S16R-Y2PTAW2-1

SPECIFICATION SHEET

ENGINE RATING

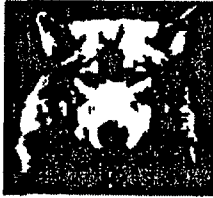
All data represent net performance with standard accessories such as air cleaner, inlet /exhaust manifolds, fuel oil system, L.O. pump, etc. under the condition of 100kPa(29.6inHg) barometric pressure, 77°F(25°C) ambient temperature and 30% relative humidity.

ITEM	UNIT	STAND-BY POWER	PRIME POWER		
		60Hz	60Hz		
Engine Speed	rpm	1800	1800		
No. of Cylinders		16			
Bore	mm	170			
	(in.)	(6.69)			
Stroke	mm	180			
	(in.)	(7.09)			
Displacement	liter	65.37			
	(in. ³)	(3989)			
Brake Horse power without Fan	HP	2923	2657		
	(kW)	(2180)	(1982)		
Brake Mean Effective Pressure without Fan	kgf/cm ²	22.7	20.6		
	(psi)	(323)	(293)		
Mean Piston Speed	m/s	10.8	10.8		
	(ft/min)	(2126)	(2126)		
Maximum Regenerative Power Absorption Capacity without Fan	HP	258	258		
	(kW)	(192)	(192)		
Intake Air flow	m ³ /min	206	185		
	(CFM)	(7274)	(6532)		
Exhaust Gas Flow	m ³ /min	544	490		
	(CFM)	(19209)	(17302)		
Coolant Flow	liter/min	1850	1850		
	(U.S. GPM)	(489)	(489)		
Coolant Flow to Intercooler (PTAW only)	liter/min	920	920		
	(U.S. GPM)	(243)	(243)		
Cooling Air Flow (Std. Fan)	m ³ /min
	(CFM)				
Allowable Fan Loss Horse Power	HP	67	67		
	(kW)	(50)	(50)		
Radiated Heat to Ambient	kcal/hr	154827	139347		
	(BTU/min)	(10240)	(9216)		
Heat Rejection to Coolant	kcal/hr	670918	603836		
	(BTU/min)	(44374)	(39937)		
Heat Rejection to Air Cooler (PTAW Version)	kcal/hr		
	(BTU/min)	(44374)	(39937)		
Heat Rejection to Exhaust	kcal/hr	1789333	1593690		
	(BTU/min)	(118344)	(105405)		
Noise Level (1 m height & distance) (excludes, Intake,Exhaust & Fan)	dB(A)	113	110		

The specifications are subject to change without notice.

APPLICATION : GENERATOR

Pub. No. T13-0636-E



SILVER WOLF

Consulting & Engineering, Inc.

107-G Dunbar Avenue, Oldsmar, Florida 34677 (813) 854-5474 (813) 854-1544 fax

Ms. Lora Webb
Hillsborough County Environmental Protection Commission
Air Management Division
3629 Queen Palm Drive
Tampa, Florida 33619

March 6, 2008

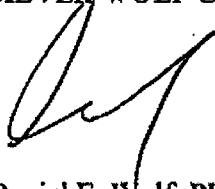
Re: Re-registration of Air General Permit 0571252-002-AG
Notification of Intent to Make Equipment Change
Verizon Data Services
One East Telecom Drive
Temple Terrace, Florida 33637

Dear Ms. Webb:

On behalf of Verizon Data Services (Verizon), Silver Wolf Consulting & Engineering, Inc. (Silver Wolf) has prepared the enclosed "Reciprocating Internal Combustion Engines Air General Permit Registration Form", Part II. Notification to Permitting Office. This replaces existing permit #0571252-002-AG that was submitted in 2005 for nine (9) emergency generators located at the referenced facility. Six (6) of the generators are located at the Data Center Generator Plant and three (3) are located at the Office Building Power/Chiller Plant. Verizon is replacing three of the Data Center generators with new larger units. The three (3) old units will be installed in the proposed New Power/Chiller Plant. After construction of the New Power/Chiller Plant there will be a total twelve (12) emergency generators at three locations. A map illustrating the three locations is attached to the permit form.

Your assistance with this matter is greatly appreciated. A check for the \$100 processing fee is enclosed. If you have questions or require additional information, please don't hesitate to call me at (352) 585-3389 or Mr. George Piasecki (Verizon) at (813) 978-6960.

Sincerely,
SILVER WOLF CONSULTING & ENGINEERING, INC.



Daniel E. Wolf, PE
Principal Engineer

Cc: Mr. George Piasecki
Verizon
One East Telecom Parkway, B1M
PO Box 290152
Temple Terrace, Florida 33637