RECEIVED

RECIPROCATING INTERNAL COMBUSTION ENGINES AIR GENERAL PERMIT REGISTRATION FORM FEB 2.4 2011

Part II. Notification to Permitting Office

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

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):				
No air operation permits currently exist for this facility.				
General Facility Information				
<u>Facility Owner/Company Name</u> (Name of corporation, agency, or individual owner who or which owns, leases, operates, controls, or supervises the facility.)				
South Florida Water Management District				
Site Name (Name, if any, of the facility site; e.g., Plant A, Metropolis Plant, etc. If more than one facility is owned, a registration form must be completed for each.) Pump Station S-140				
Facility Location (Provide the physical location of the facility, not necessarily the mailing address.)				
Street Address: 23.8 miles west of US 27 on I-75 (Jct of L-28 and C-60 canals) (Lat: 26.10.18/Long: 80.49.39)				
City: Unincorporated Broward Co. County: Broward Zip Code: N/A				

DEP Form No. 62-210.920(1)(b) Effective: January 10, 2007

Facility Start-Up Date (Estimated start-up date of proposed new facility.)(N/A for existing facility)

DEP Form No. 62-210.920(1)(b) Effective: January 10, 2007

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: Fred Remen, Department Director, Field Operations South, Operations and Maintenance Resource Area

Owner/Authorized Representative Mailing Address

Organization/Firm:South Florida Water Management District

Street Address:3301 Gun Club Road

City: West Palm Beach

County:Palm Beach

Zip Code:33406

Owner/Authorized Representative Telephone Numbers

Telephone:(561) 682-2124

Fax:(561) 681-6232

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: Jeffrey A. Smith, Lead Environmental Scientist

Facility Contact Mailing Address

Organization/Firm:South Florida Water Management District

Street Address:3301 Gun Club Road

City: West Palm Beach

County:Palm Beach

Zip Code:33406

Facility Contact Telephone Numbers

Telephone: (561) 682-2516

Fax:(561) 681-6232

Cell phone (optional):

Owner/Authorized Representative Statement

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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

2/15/2011 Date

DEP Form No. 62-210.920(1)(b) Effective: January 10, 2007

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.

58,417 gallons of No. 2 diesel fuel consumed from March 2008 thru February 2009.

Description of Facility

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.

Station operates three Detroit Diesel, Model V1271, 485 hp diesel engines that power three pumps. Station maintains two Detroit Diesel, 227 hp diesel engines for emergency generators (100 kW). These existing pump engines and generator engines will be replaced. The new pump engines will be Caterpillar, C13 ACERT (Tier 3), 385 hp. The new generator engines will be John Deere, 158 hp, operating 100 kW generators.

Routine maintenance performed in accordance with District SOPs and inspections by the US Army Corp of Engineers.

Existing Air General Permit: 0112314-003-AG

GATERPILAR

C13 ACERT

287 bkW / 385 bhp

2100 rpm

Industrial

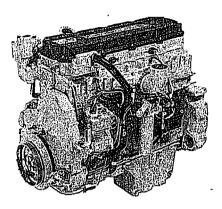


Image shown may not reflect actual engine

CATERPILLAR ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore	130.0 mm (5.12 in
Stroke	157.0 mm (6.18 in
Displacement	12.5 L (762.8 in ³
Aspiration	Turbocharged Aftercooled
Compression Ratio	17.3:1
	end) Counterclockwise
	ximate kg, lb) 939 kg, 2070 lb

FEATURES

Emissions

Meets Tier 3, Stage IIIA emission requirements. Tier Wide range of bolt-on system expansion 3 refers to EPA (U.S.) standards. Stage IIIA refers to attachments, factory designed and tested. European standards.

Worldwide Supplier Capability

Caterpillar

- Casts engine blocks, heads, and cylinder liners.
- Machines critical components
- Assembles complete engine

Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.

Factory-designed systems built at Caterpillar ISO certified facilities.

Testing

Prototype testing on every model:

- provés computer design
- verifies system torsional stability
- tests functionality on every model

Every Caterpillar engine is dynamometer tested under full load to ensure proper engine performance.

Full Range of Attachments

Unmatched Product Support Offered Through Worldwide Caterpillar Dealer Network

More than 1,500 dealer outlets.

Caterpillar factory-trained dealer technicians service every aspect of your industrial engine. 99.7% of parts orders filled within 24 hours worldwide.

Caterpillar parts and labor warranty.

Preventive maintenance agreements available for repair before failure options.

Scheduled Oil Sampling program matches your oil sample against Caterpillar set standards to determine:

- internal engine component condition
- presence of unwanted fluids
- presence of combustion by-products

Web Site

For all your industrial power requirements, visit www.cat-industrial.com.

GATERPILAR°

C13 ACERT ™

INDUSTRIAL ENGINE

287 bkW (385 bhp)

STANDARD ENGINE EQUIPMENT

Air Inlet System

Air to air aftercooled (ATAAC) Turbocharged

Control System

Electronic governing, PTO speed control
Programmable ratings
Cold mode start strategy
Automatic altitude compensation
Power compensation for fuel temperature
Programmable low and high idle and total engine
limit
Electronic diagnostics and fault logging
Engine monitoring system
J1939 Broadcast (diagnostic and engine status)
ADEM™ A4

Cooling System

Thermostats and housing, vertical outlet Jacket water pump, centrifugal Water pump, inlet

Exhaust System

Exhaust manifold, dry Optional exhaust outlet

Flywheels and Flywheel Housing

SAE No. 1 Flywheel housing

Fuel System

MEUI injection
Fuel filter, secondary (2 micron high performance)
Fuel transfer pump
Fuel priming pump
ACERT™ Technology

Lube System

Crankcase breather
Oil cooler
Oil filler
Oil filter
Oil pan front sump
Oil dipstick
Oil pump (gear driven)

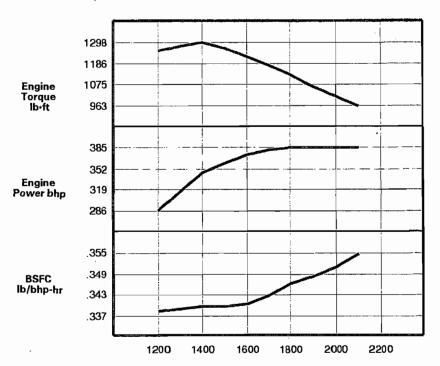
General

Paint, Caterpillar Yellow Vibration damper Lifting eyes

287 bkW (385 bhp)

PERFORMANCE CURVES

IND - A (Continuous) - DM7685-03



English

Engine Speed rpm

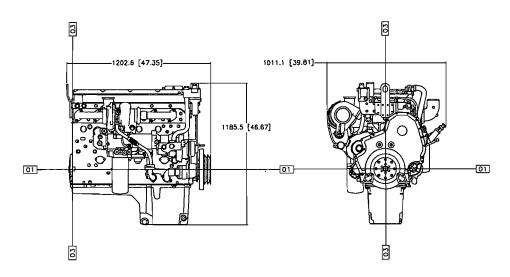
Engine Speed rpm	Engine Power bhp	Engine Torque lb-ft	BSFC lb/bhp-hr	Fuel Rate gal/hr
2100	385	963	.355	19.5
2000	385	1011	.351	19.3
1900	385	1064	.348	19.2
1800	385	1124	.346	19.0
1700	381	1177	.343	18.7
1600	373	1224	.340	18.1
1500	361	1266	.340	17.5
1400	346	1298	.339	16.8
1300	317	1281	.339	15.3
1200	286	1252	.338	13.8

287 bkW (385 bhp)

RATINGS AND CONDITIONS

IND - A (Continuous) Continuous heavy duty service where the engine is operated at maximum power and speed up to 100% of the time without interruption or load cycling.

Engine Performance Diesel Engines — 7 liter and higher All rating conditions are based on SAE J1995, inlet air standard conditions of 99 kPa (29.31 in. Hg) dry barometer and 25°C (77°F) temperature. Performance measured using a standard fuel with fuel gravity of 35° API having a lower heating value of 42,780 kJ/kg (18,390 btu/lb) when used at 29° C (84.2° F) with a density of 838.9 g/L.



Engine Dimensions			
(1) Length	47.35 in		
(2) Width	39.81 in		
(3) Height	46.67 in		

Note: Do not use for installation design. See general dimension drawings for detail (Drawing # 2588857).

Performance Number: DM7685-03

Feature Code: C13DI00 Arr. Number: 2413804

Materials and specifications are subject to change without notice.

15050890

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The International System of Units (SI) is used in this publication.

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SOUTH FLORIDA WATER MANAGEMENT DISTRICT

ADM 38-40

February 18, 2011

Florida Dept. of Environmental Protection - Receipts P.O. Box 3070 Tallahassee, FL 32315-3070

Subject:

Air General Permit Registration Form

South Florida Water Management District

ARMS: 0112314-003-AG

Enclosed please find Air General Permit Registration Form (DEP Form No. 62-210.920(1)(b)) for the South Florida Water Management District's Pump Station S-140.

The three existing Detroit Diesel pump engines will be replaced with Caterpillar C-13 ACERT engines. The two existing Detroit Diesel emergency generator engines will be replaced with John Deere engines. Enclosed are specification sheets for the new Caterpillar C-13 ACERT engines.

Please contact me at 561/682-2516 if you have any questions.

Sincerely,

Jeffrey A. Smith

Lead Environmental Scientist

Infrastructure Systems

Operations & Maintenance Resource Area

c: District O/M file (w/ enclosure)



South Florida Water Management District

P.O. Box 24682 3301 Gun Club Road West Palm Beach, FL 33416-4682

FLORIDA DEPT OF ENVIRON PROTECTION PO BOX 3070 TALLAHASSEE FL 32315-3070

MS 5332 SOUTH FLORIDA

WATER MANAGEMENT DISTRICT

3301 Gun Club Road

P.O. Box 24680 West Palm Beach, Florida 33416-4680





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Florich Dept. of Environmental Protection Receipts

P.O. Bux - 3070 Tallahassee, FL 32315-3070

