



WALT DISNEY World Co.

**RECEIVED**

**MAR 16 1998**

**BUREAU OF  
AIR REGULATION**

March 2, 1998

Mr. Clair Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Installation of natural gas fired hot water generators

Dear Mr. Fancy:

In recent conversations with Bruce Mitchell, he and I have discussed the approach that Florida Department of Environmental Protection (DEP) wants to take regarding permitting of natural gas-fired hot water generators (NGHWGs). In the past, the Walt Disney World Co. has permitted any NGHWGs with a heat input greater than 1 million BTUs per hour (MMBtu/hr) as regulated emissions units subject to the associated construction permitting process, visible emissions testing, emissions limits and annual operating report requirements. It is our understanding that the DEP does not intend to include such units any longer as regulated emissions units in a Title V facility. Mr. Mitchell and I plan to modify the Walt Disney World Co. Title V permit in the near future to reclassify all of the NGHWGs as unregulated emissions units.

In addition, as development of the Walt Disney World Resort property continues, NGHWGs will continue to be installed in new and existing projects. Since a construction permit is not required for unregulated emissions units, Mr. Mitchell has instructed me to send a letter to you whenever a NGHWG is planned to be installed at the Walt Disney World Resort. The units would then be added to the Title V permit.

Currently, there are three NGHWGs planned for installation at the Walt Disney World Resort that would have been, in the past, permitted as regulated emissions units: two pool water heaters at Disney's Animal Kingdom (DAK) and one at the Magic Kingdom's (MK) Splash Mountain attraction. The following table lists the information pertinent to these units:

Designation	Location	Manufacturer	Model	Maximum Heat Input, MMBtu/hr
MK-U-1	MK Splash Mountain	Lochinvar	CFN2070 PM	2.070
DAK-U-1	DAK Hippo Enclosure	Ray Pak	P-514	0.5115
DAK-U-2	DAK Hippo Enclosure	Ray Pak	P-1758	1.758



Clair Fancy  
Page 2  
March 2, 1998

The Animal Kingdom units will be used to heat water in crocodile and hippopotamus pools and in an aviary habitat. The Magic Kingdom unit will replace a heat exchanger which is used to control moisture condensation inside the Splash Mountain building. Please refer to the enclosed documents for specifications and plot plans.

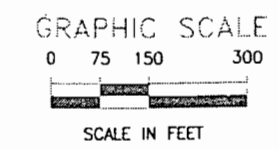
It would be appreciated if you could send a response to this letter which indicates concurrence with this procedure and that these units will be added to our Title V permit. If you have any questions or need any further information, please call me at 407-827-2748.

Sincerely,

Rich Bumar  
Environmental Control Representative  
Environmental Control Department

Enclosure

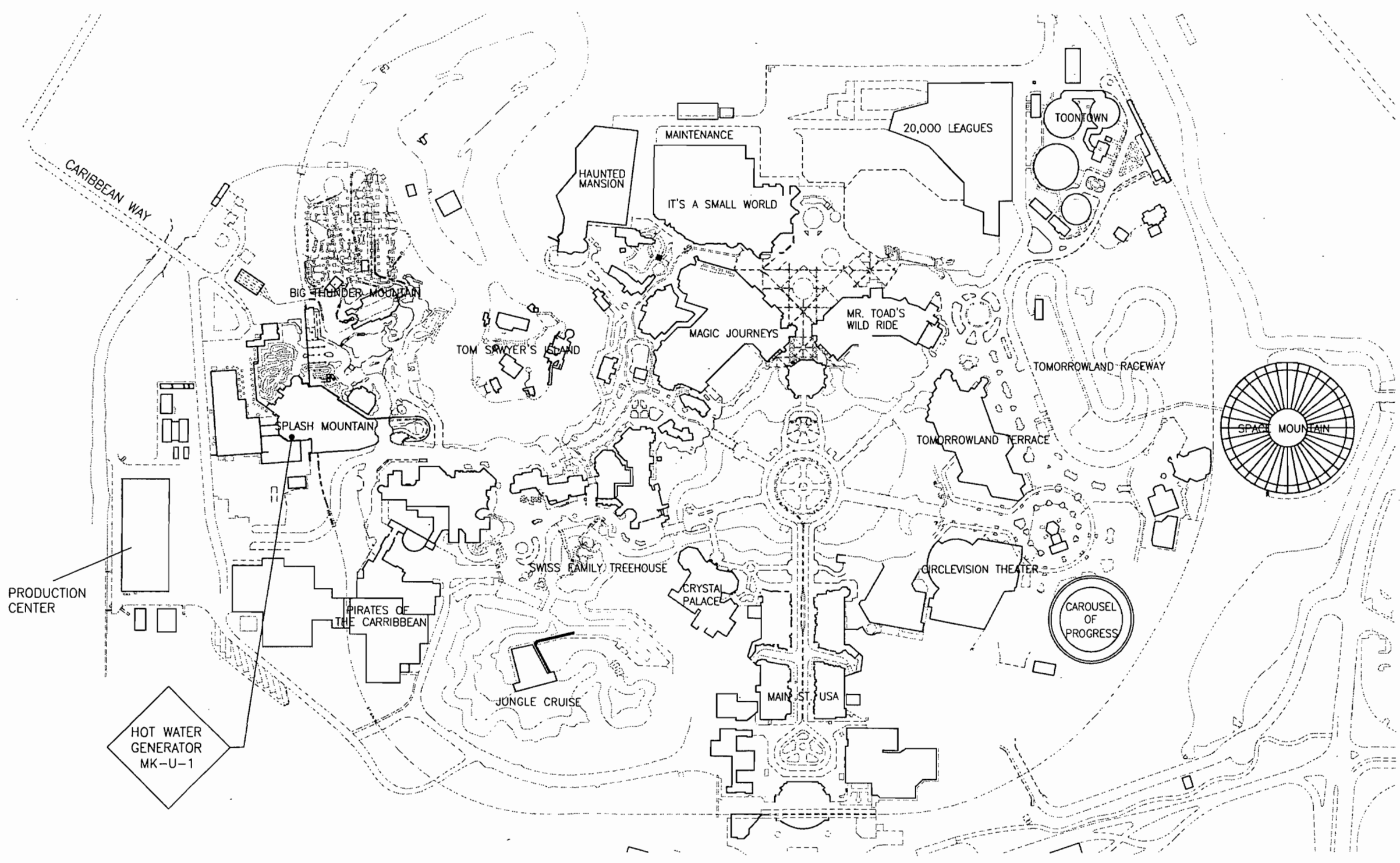
cc: Bob Beaver  
Leonard Kozlov  
Bruce Mitchell  
Armando Rodriguez (w/o enclosure)  
Lee Schmudde (w/o enclosure)



LEGEND



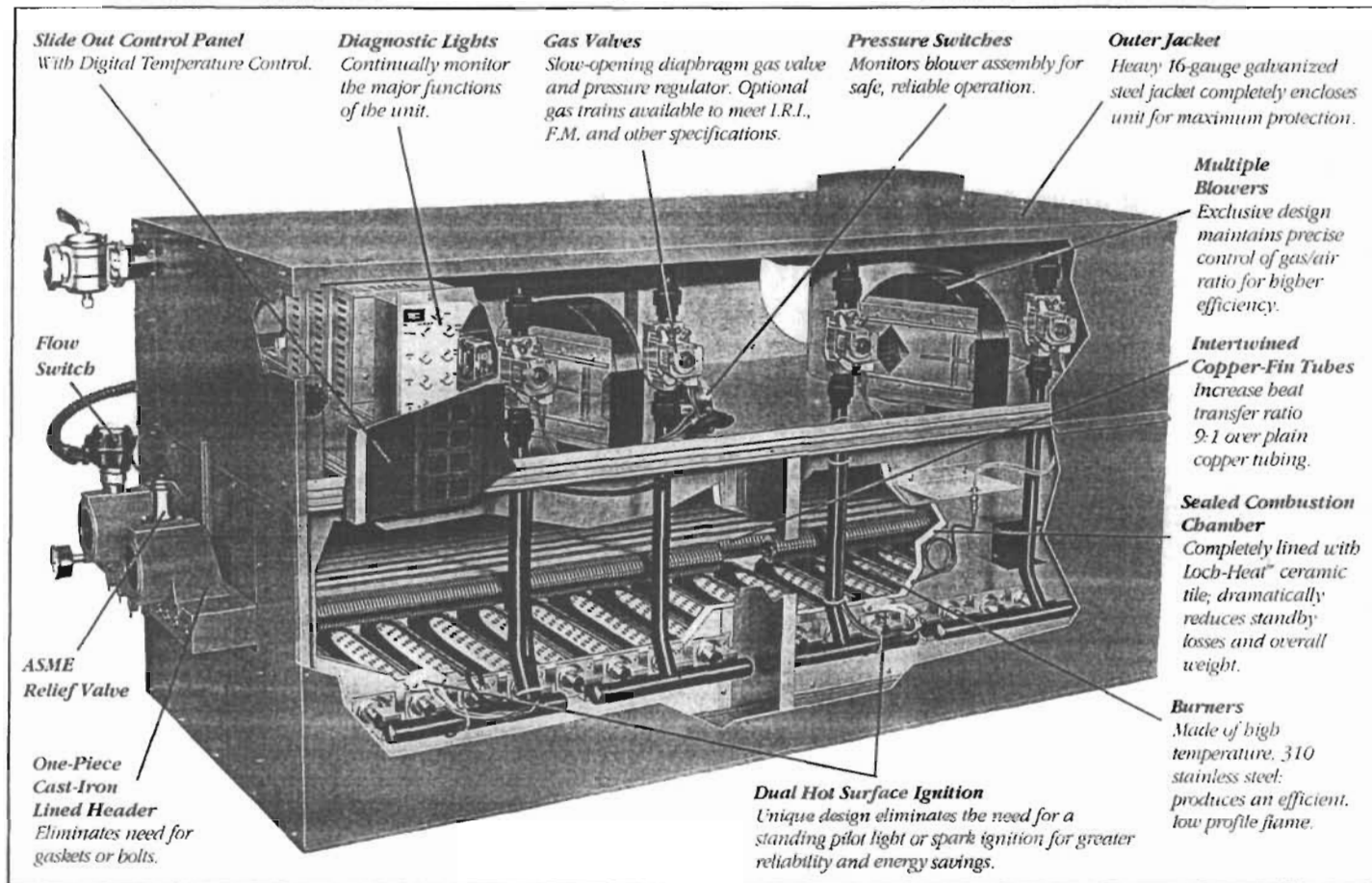
EMISSION POINT



FACILITY PLOT PLAN  
MAGIC KINGDOM UNREGULATED EMISSIONS UNITS



MK-U-1  
**Copper-Fin II® 990-2070**  
*Featuring Proportional Firing*



### What Is Proportional Firing?

All Copper-Fin II commercial water heaters feature a sealed combustion chamber to minimize heat loss, and a power-assisted fan provides just the right amount of combustion air to ensure the best combustion. But with the newest additions to the Copper-Fin II line, we've taken that a step further.

These new models not only maintain the ideal blend of gas and air for combustion, they do so in proportional amounts. They provide a measured response to the demand for heat—as much or as little as needed—while always maintaining the ideal gas/air ratio.

### How It Works

Multiple gas valves supply the burners in stages, and multiple blowers maintain the proper airflow to ensure the most efficient combustion at each level of use. All are controlled by our built-in sequencer\*. With digital accuracy, it carefully monitors the need for heat, and as demand increases or decreases, it automatically adjusts the blower output and gas valves.

As the demand is met, the system shuts down gradually, turning off gas valves and reducing combustion air intake in direct proportion. This allows the Copper-Fin II to maintain a virtually constant setting. In fact, it's accurate to within 1° Fahrenheit—a remarkable achievement in a unit of this capacity!

\*Featuring Digital Temperature Control (DTC).

### Consistent Performance

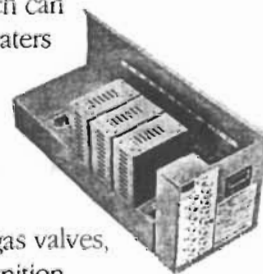
Conventional water heaters achieve peak efficiency only when they're running at maximum capacity. When the demand for hot water is lower, the efficiency is lower too. But the Copper-Fin II models with proportional firing not only offer more accurate temperature control, they consistently provide peak performance even while operating at lower inputs.

Plus, our Copper-Fin heat exchanger provides superior heat transfer. In fact, it's nine times more efficient than conventional copper tubing. And the high-velocity flow eliminates the lime scale build-up which can reduce the efficiency of other water heaters by as much as 40% in five years.

### Total System Redundancy

Proportional firing also means unmatched reliability. Every major component has a back-up—multiple gas valves, multiple fans, even dual Hot Surface Ignition Systems—so downtime is virtually eliminated.

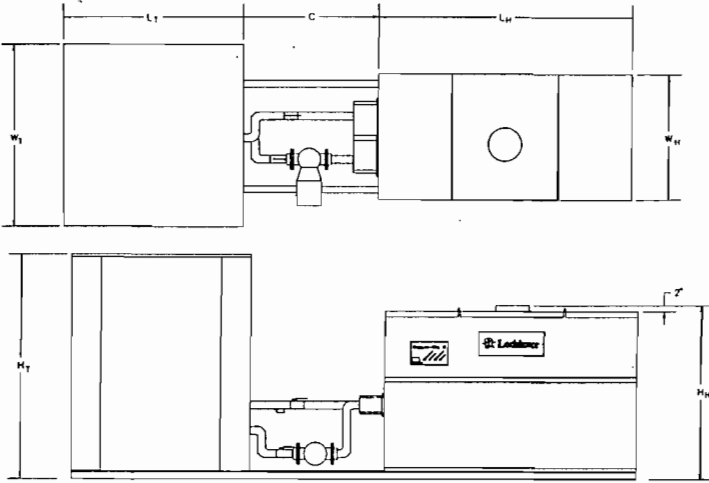
What's more, each unit is equipped with a comprehensive Diagnostic Information Center; it alerts the operator if there is a problem and helps to isolate it quickly. The 990-2070 series also features the industry's first slide-out control panel with plug-in components. A built-in circuit breaker eliminates fuses, too—making servicing fast and easy.



## Copper-Fin II Package System Configurations and Dimensions

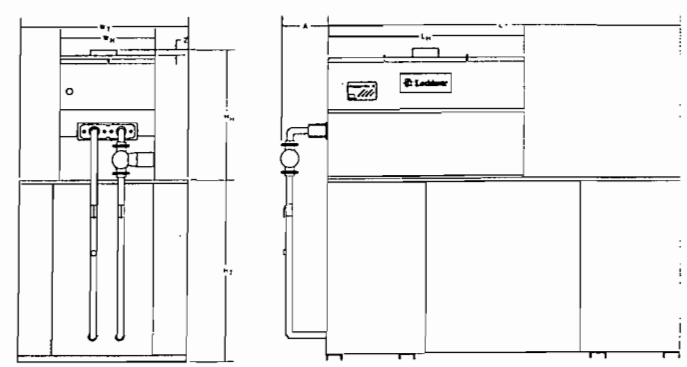
### PS Configuration

CFN300-2070PM with a 119-504 gallon capacity Jacketed and Insulated Lock-Temp Vertical Tank.



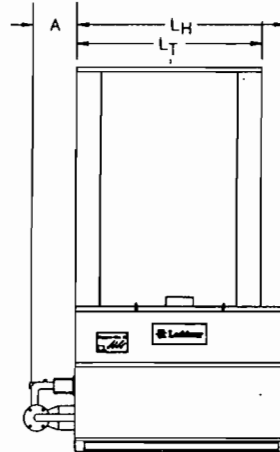
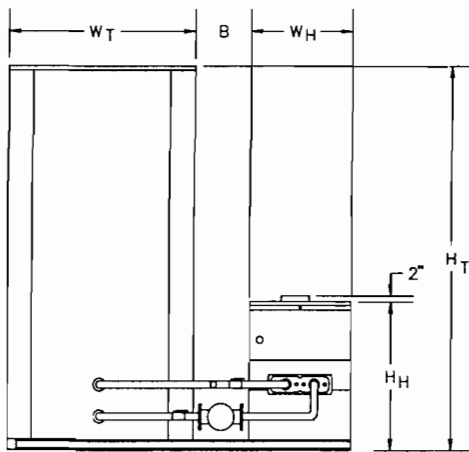
### PT Configuration

CFN300-2070PM with a 300-2500 gallon capacity Jacketed and Insulated Lock-Temp Horizontal Tank.

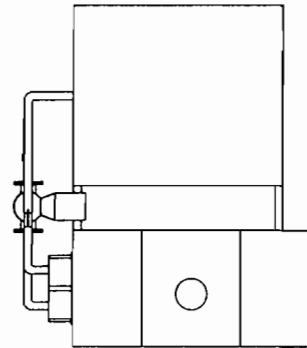


### PU Configuration

CFN300-2070PM with a 119-504 gallon capacity Jacketed and Insulated Lock-Temp Vertical Tank.

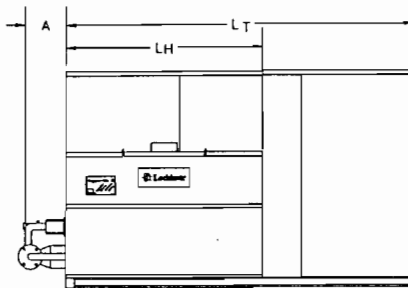
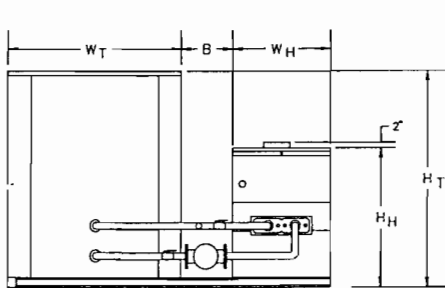


TOP VIEW

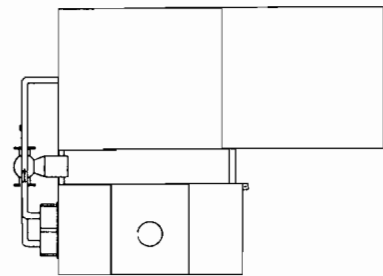


### PW Configuration

CFN300-2070PM with a 300-2500 gallon capacity Jacketed and Insulated Lock-Temp Horizontal Tank.



TOP VIEW



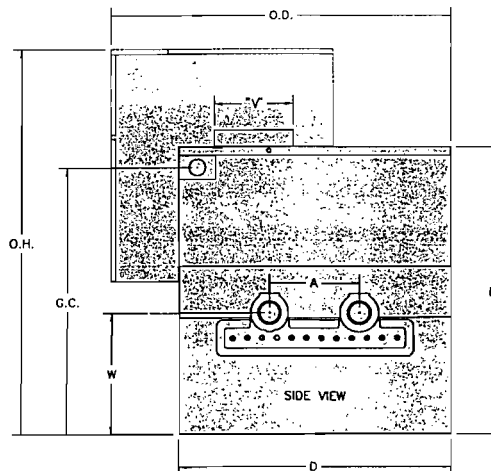
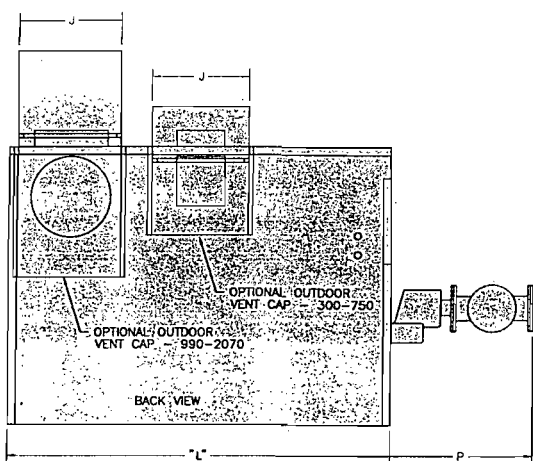
HEATER #	W <sub>H</sub>	L <sub>H</sub>	H <sub>H</sub>
CFN0300 PM	22 1/4"	30 1/4"	31 3/8"
CFN0400 PM	22 1/4"	37 1/2"	31 3/8"
CFN0500 PM	22 1/4"	45 1/4"	31 3/8"
CFN0650 PM	22 1/4"	56 3/8"	31 3/8"
CFN0750 PM	22 1/4"	63 7/8"	31 3/8"
CFN0990 PM	33 1/2"	48 3/8"	38 1/8"
CFN1260 PM	33 1/2"	58 1/2"	38 1/8"
CFN1440 PM	33 1/2"	68 3/8"	38 1/8"
CFN1800 PM	33 1/2"	82 1/8"	38 1/8"
CFN2070 PM	33 1/2"	92 3/8"	38 1/8"

VERTICAL TANK DIMENSIONS			
TANK SIZE	W <sub>T</sub>	L <sub>T</sub>	H <sub>T</sub>
220	38 3/8"	34 1/8"	84"
318	42 3/8"	42 3/8"	84"
432	48 3/8"	48 3/8"	84"
504	48 3/8"	48 3/8"	96"

HORIZONTAL TANK DIMENSIONS			
TANK SIZE	W <sub>T</sub>	L <sub>T</sub>	H <sub>T</sub>
300	42 1/4"	78 1/8"	48 1/2"
400	42 1/4"	102 1/8"	48 1/2"
500	48 1/4"	90 5/8"	54 1/2"
600	48 1/4"	114 1/8"	54 1/2"
700	48 1/4"	130 1/8"	54 1/2"
800	54 1/4"	124 1/8"	60 1/2"
1000	54 1/4"	138 1/8"	60 1/2"
1250	60 1/4"	130 1/8"	66 1/2"
1500	66 1/4"	126 1/8"	75 1/2"
2000	72 1/4"	138 1/8"	78 1/2"
2500	78 1/4"	144 1/8"	84 1/2"

SPECIAL DIMENSIONS		
A	B	C
12	10	35

# Copper-Fin II Water Heater Dimensions & Specifications



MODEL NO	BTU INPUT	GPH@100° TEMP RISE	GAS CONN.	WATER CONN.	A	D	O.D.	G.C.	H	O.H.	J	L	P	V	W	WT.
CFN0300 PM	300,000	309	3/4"	2"	6 1/2"	22 1/4"	27 7/8"	21"	28 3/8"	34 3/8"	12 1/4"	30 1/4"	18 1/2"	5"	11 3/4"	270
CFN0400 PM	399,999	412	1"	2"	6 1/2"	22 1/4"	27 7/8"	21"	28 3/8"	34 3/8"	12 1/4"	37 1/2"	18 1/2"	6"	11 3/4"	310
CFN0500 PM	500,000	515	1"	2"	6 1/2"	22 1/4"	27 7/8"	21"	28 3/8"	34 3/8"	12 1/4"	45 1/4"	18 1/2"	6"	11 3/4"	352
CFN0650 PM	650,000	670	1 1/4"	2"	6 1/2"	22 1/4"	27 7/8"	21"	28 3/8"	34 3/8"	12 1/4"	56 3/8"	18 1/2"	8"	11 3/4"	413
CFN0750 PM	750,000	773	1 1/4"	2"	6 1/2"	22 1/4"	27 7/8"	21"	28 3/8"	34 3/8"	12 1/4"	63 3/8"	18 1/2"	8"	11 3/4"	447
CFN0990 PM	990,000	1020	1 1/2"	2 1/2"	11 3/8"	33 1/2"	41 3/4"	33"	35 1/8"	47 1/4"	14"	48 3/8"	20 1/2"	10"	15"	804
CFN1260 PM	1,260,000	1298	1 1/2"	2 1/2"	11 3/8"	33 1/2"	41 3/4"	33"	35 1/8"	47 1/4"	16"	58 1/2"	20 1/2"	12"	15"	1018
CFN1440 PM	1,440,000	1484	2"	2 1/2"	11 3/8"	33 1/2"	41 3/4"	33"	35 1/8"	47 1/4"	16"	68 3/8"	20 1/2"	12"	15"	1126
CFN1800 PM	1,800,000	1855	2"	2 1/2"	11 3/8"	33 1/2"	41 3/4"	33"	35 1/8"	47 1/4"	18"	82 1/8"	20 1/2"	14"	15"	1269
CFN2070 PM	2,070,000	2133	2"	2 1/2"	11 3/8"	33 1/2"	41 3/4"	33"	35 1/8"	47 1/4"	18"	92 3/8"	20 1/2"	14"	15"	1376

\*Recovery based on actual heater performance at 85%. • Change 'N' to 'L' to denote L.P. model. No deration on L.P. models. • Pump pre-mounted on all PM models.

## Standard Features

- 85% Thermal Efficiency
- Sealed Combustion Chamber
- Hot Surface Ignition
- "310" Stainless Steel Burners
- Redundant Gas Valves
- Unique Gasketless Copper-Fin Heat Exchanger
- Loch-Heat™ Ceramic Tile Combustion Chamber
- ASME 160# W.P.
- 150# ASME Temperature and Pressure Relief Valve
- NOx Rating of 9.9 ppm
- Diagnostic Control Panel
- 24v Controls
- Terminal Strip
- Inlet/Outlet Temperature Gauge
- 180° F Operation
- Pre-Mounted Pump

- Air Pressure Switch
- Manually-Operated/Lubricated Plug Cock
- 5-Year Warranty
- Guaranteed Against Thermal Shock
- Stackable
- Smaller Footprint
- Fits Through Standard 36" Doorframe
- 3" Clearance To Combustible Walls

## Additional Features (990-2070 Models)

- Proportional Firing
- Category 1 Venting
- Dual Hot Surface Ignition Systems
- Multiple Blowers
- Built-In Sequencer
- Digital Temperature Control (DTC)
- Slide-Out Control Panel with Plug-In Components
- Expanded 15-Light Diagnostic Panel
- Flow Switch
- Terminal Strip for E.M.S. Hook-ups

## Optional Equipment

- Powered Vent Cap for Horizontal DirectAire™ Venting (110v)
- Cupro Nickel Heat Exchanger
- Manual Reset Hi-Limit
- Alarm Bell
- Flow Switch (300-750 models)
- Low Water Cut-Off
- Mod-u-Pak Sequencer
- All Bronze Pump
- Multi-Stack Stand

## Available Firing Systems

300-750 990-2070

F9	M9	Electronic Control with Hot-Surface Ignition (Standard)
F3	M3	FM Approved*
F4	M4	IRI*
F5	M5	Illinois School Code*
F7	M7	California Code

\* Indoor only.  
Patent Pending



Certified by A.G.A. as hot water supply boilers for both natural gas and propane gas.



All models comply with ASME Boiler Pressure Vessel Code, Section IV, 160 psi working pressure and registered with the National Board.



Canadian Gas Association



Printed in U.S.A.  
Litho 10M 3/95



# Lochinvar™

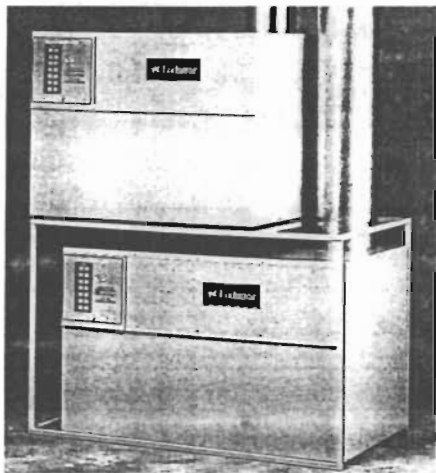
Lochinvar Corporation  
2005 Elm Hill Pike  
Nashville, TN 37210  
615/889-8900/Fax 615/885-4403

### A Space-Saving, Money-Saving Design

The entire Copper-Fin II line offers you greater flexibility and ease of installation. Because of their high efficiency, these units are also compact enough to fit through standard 36" doorways intact. Even our 2 million BTU model is only 33½" wide.

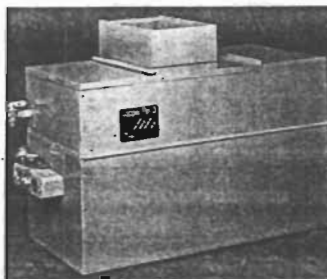
Once inside, these space-saving designs leave more room in the mechanical room. Plus, the Copper-Fin II offers four indoor venting options, including Lochinvar's own power-assisted DirectAire™ system. Or use them with the optional outdoor vent hood.

What's more, the sealed combustion chamber minimizes heat loss so dramatically that Copper-Fin II units require only 3" clearance from combustible walls. And the optional new Multi-Stack stand allows you to put two units in the space normally required for one.



Multi-Stack Stand

High-efficiency, fan assisted combustion means you can use a smaller diameter vent stack, up to 8" smaller than typically required—making installation less expensive and less time-consuming. So save energy, save space, and save on installation costs—with the Copper-Fin II.



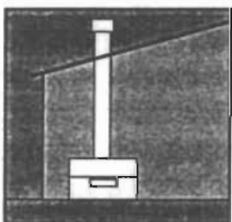
The Copper-Fin II® Outdoor Model

### Vent Cost Savings

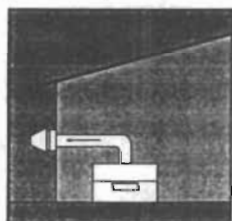
INPUT	CONVENTIONAL VENT SIZE	COPPER-FIN II VENT SIZE	\$ SAVINGS*
300,000	8"	5"	253.00
400,000	10"	6"	657.00
500,000	10"	6"	657.00
650,000	12"	8"	731.00
750,000	14"	8"	1,450.00
990,000	16"	10"	1,790.00
1,260,000	16"	12"	1,463.00
1,440,000	18"	12"	2,432.00
1,800,000	20"	14"	3,526.00
2,070,000	22"	14"	3,738.00

\*Comparison based on 25" vent system using Type "B" double wall vent material, storm collar and vent cap.

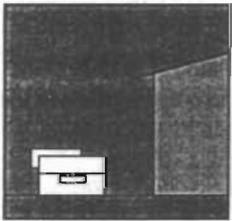
### Venting Options



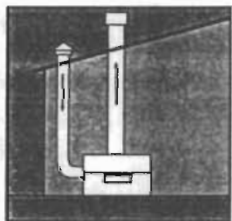
**Conventional**  
Vents into conventional flue or vent breaching using Type B wall vent.



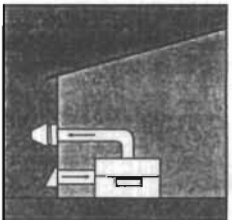
**Side Wall**  
Vents directly through the outside wall using the optional powered side wall cap. Ideal when a vent stack is not practical.



**Outdoor**  
Requires an add-on outdoor vent cap. Use when indoor space is a problem or if outdoor location gives better access.



**DirectAire Vertical**  
Draws fresh combustion air from outside, and vents combustion by-products through conventional vertical flue.

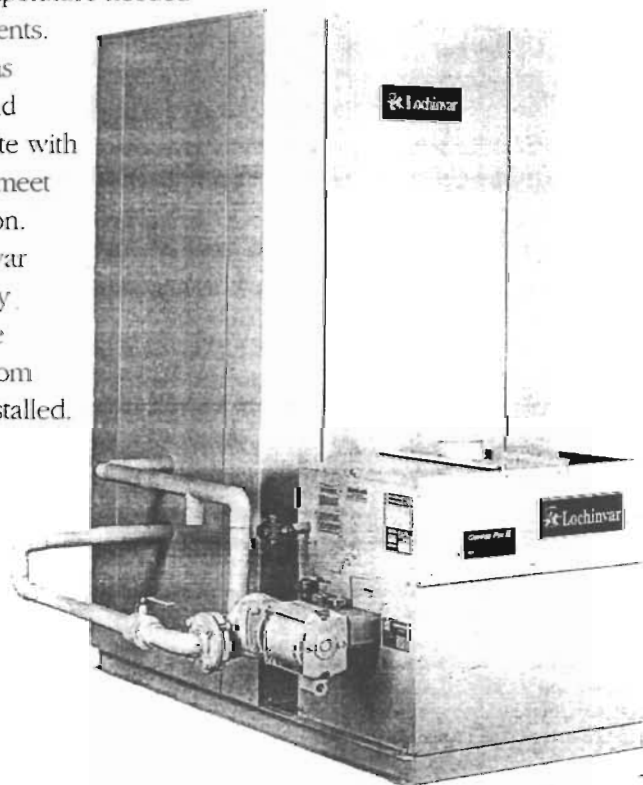


**DirectAire Horizontal**  
Again, draws fresh combustion air from outside, then vents by-products through side wall using optional powered vent cap.

### Copper-Fin II Packaged Systems

Select from multiple arrangements for storage and recovery to create one that exactly matches your application with our Packaged Systems. Teamed with our Lock-Temp tanks, the Copper-Fin II models provide the constant water temperature needed to meet load requirements.

All packaged systems are pre-engineered and pre-assembled complete with all piping to precisely meet your specific application. And like every Lochinvar product, we thoroughly pre-test them to ensure proper performance from the moment they're installed.



Best Available Copy

DAK-U-1,2

FROM : SUPERIOR SOLAR SYSTEMS 00  
FEB 02 '98 12:03 PUP LONGWOOD

PHONE NO. : 407 331 0305

Feb. 02 1998 01:26PM P1

*Ernie*  
480 3P/RW

# Commercial Pool Heaters

Rugged, efficient heaters  
for large pools

Clubs. Universities.  
Municipalities. Watersport  
Centers. Large residential pools.

23 model sizes — 511,500 to  
4,000,000 BTUH inputs.

Indoor and outdoor styles.

80-82% thermal efficiency.

Natural or propane gas.

Fuel-saving electronic ignition.

Precision water temperature  
control — to  $\pm 1^\circ\text{F}$ .

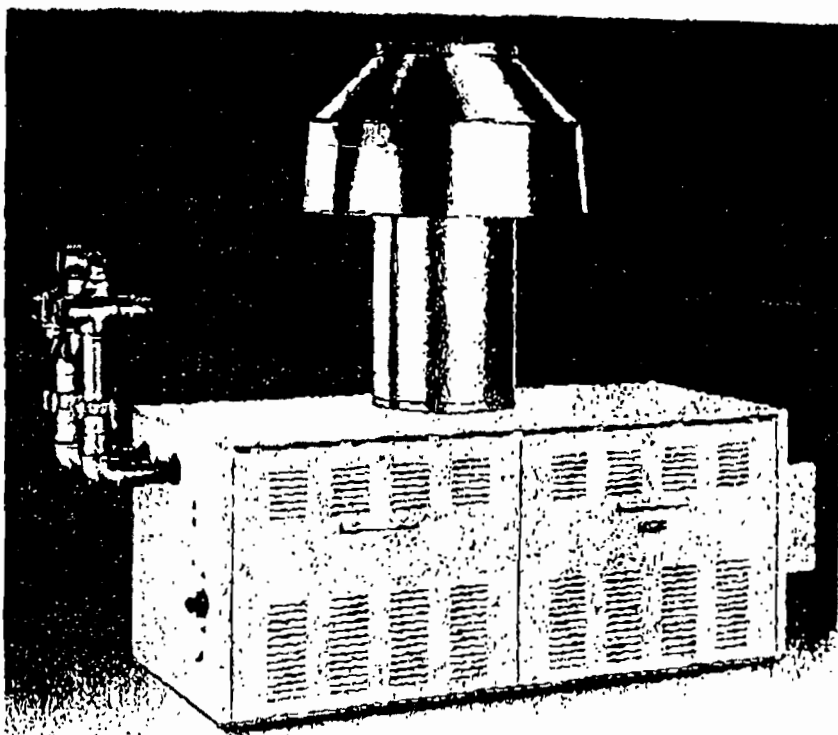
Low operating cost. Low  
maintenance cost. Easy service.



A. G. A.



ASME



MODEL P-1468 INDOOR

Only Raypak offers a pool heater that is not only the most efficient (up to 82% thermal efficiency) but also includes, as standard, engineering and manufacturing innovations not found in other makes. As a result, a Raypak commercial pool heater is unmatched for heating efficiency, operating economy, low-cost installation and all-around dependability. And they are fired up and fully tested at the factory to assure their on-site performance. Check these standard features and see why Raypak is the best!

**Electronic Pilot Ignition...** Saves fuel, no standing pilot.  
**100% Copper And Bronze Waterways...** Bronze headers and copper lined tubes prevent corrosion and rust which can stain the pool and destroy the heater.  
**1" Diameter Finned Copper Tubes...** Better water flow, lower pressure drop through heater.

**UniTherm Governor...** Patented 3-way valve automatically maintains the water in the heater at the precise temperature that prevents condensation and scale.

**Interlocking Combustion Chamber...** Cuts heat loss for best efficiency. Keeps jacket cool.

**Dual Gas Valves...** For safety.

**Lifetime Stainless Steel Burners...** Can't clog or corrode.

**Slide-out Burner Tray...** For easy inspection.

**Protecto Vent Top (outdoor only)...** Wind, rain and debris proof.

**Tough, Durable Polytuf Powdercoat Finish...** Long-lasting all-weather protection in warm Powder Beige color.

## Raypak



DAK-U-1,2

**SPECIFICATION AND DIMENSIONS**

DAK-U  
1

DAK-U  
2

MODEL	MBH NATURAL GAS (X 1000)†				DIMENSIONS (INCHES)								APPROX. SHIPPING WEIGHT (LBS)
	INDOOR		OUTDOOR		WIDTH A	HEIGHT OVERALL B	JACKET HEIGHT C	GAS CONN. G	WATER CONN. H	J	FLUE DIA. K	L	
	INPUT	OUTPUT	INPUT	OUTPUT									
P-514	511.6	419.4	511.5	419.4	32-3/4	57	33	1	2		10	25-3/8	410
P-624	627.0	514.0	627.0	514.0	37-1/2	57	33	1	2		12	29-1/2	475
P-724	726.0	595.0	726.0	595.0	41-5/8	57	33	1	2		12	34-1/4	500
P-824	825.0	676.5	825.0	676.5	45-3/4	57	33	1	2		14	38-1/2	620
P-926			926.0	759.0	52-3/8			1	2				700
P-962	961.7	788.6			52-3/8	68-3/4	33-1/2	1	2	18	14	28	700
P-1083			1083.0	888.0	59-1/4			1	2				850
P-1125	1124.7	922.0			59-1/4	74-1/2	33-1/2	1	2	23-5/8	18	32	850
P-1178			1178.0	966.0	63-5/8			1	2				810
P-1223	1222.5	1002.4			63-5/8	74-1/2	33-1/2	1	2	23-5/8	16	32	810
P-1287			1287.0	1055.0	68-5/8			1-1/4	3				875
P-1336	1336.6	1098.0			68-5/8	76-1/2	33-1/2	1-1/4	3	23-5/8	18	36	975
P-1414			1413.0	1158.5	74-7/8			1-1/4	3				1065
P-1468	1467.0	1203.0			74-7/8	76-1/2	33-1/2	1-1/4	3	23-5/8	18	36	1065
P-1571			1570.0	1287.0	81-1/8			1-1/4	3				1120
P-1831	1630.0	1336.6			81-1/8	79-1/2	36-1/2	1-1/4	3	23-5/8	18	36	1120
P-1758			1758.0	1441.5	89-3/8			1-1/4	3				1140
P-1826	1825.6	1497.0			89-3/8	81-1/2	36-1/2	1-1/4	3	23-5/8	20	40	1140
P-2100	2100.0	1722.0			61	68-1/4		1-1/2	4		24		1580
P-2500	2499.0	2049.0			70	68-1/4		1-1/2	4		28		1780
P-3001	3000.0	2460.0			81-1/4	68-1/4		2	4		28		2000
P-3500	3500.0	2870.0			92-1/2	68-1/4		2	4		30		2180
P-4001	4000.0	3280.0			103-3/4	68-1/4		2	4		32		2500

ELECTRICAL RATING :120/24V 60Hz LESS THAN 12 AMPERES  
 † SEE GAS CONVERSION CHART  
 \* MANUFACTURERS RATING

RATINGS SHOWN ARE FOR ELEVATIONS UP TO 2000 FEET. ELEVATIONS OVER 2000 FEET RATINGS SHOULD BE REDUCED AT THE RATE OF 4% FOR EACH 1000 FEET ABOVE SEA LEVEL.

**MINIMUM CLEARANCES FROM COMBUSTIBLE CONSTRUCTION**

MODEL	FRONT	REAR	LEFT SIDE	RIGHT SIDE	TOP	
					INDOOR	OUTDOOR
P-514 TO P-824	24"	12"	6"	6"	36"	UNOBSTRUCTED
P-926 TO P-1826	24"	24"	24"	24"	24"	UNOBSTRUCTED
P-2100 TO P-4001	48"	24"	24"	24"	24"	MODELS ARE INDOOR ONLY

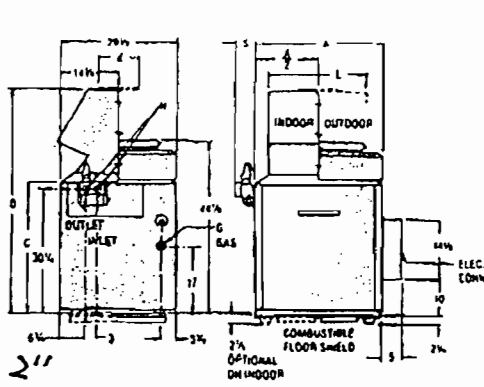
\* 18" REQUIRED FOR SERVICING  
**RECOMMENDED FLOW RATES**

MODELS	MINIMUM	MAXIMUM
P-514 TO P-1223	60 GPM	120 GPM
P-1287 TO P-1826	90 GPM	220 GPM
P-2100 TO P-4001	200 GPM	300 GPM

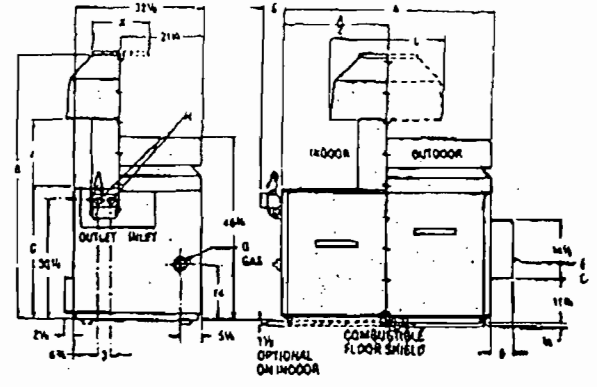
**† TO CONVERT NAT. GAS MBH TO PROPANE MBH**

MODEL	MULTIPLY NAT. MBH BY
P-514 TO P-824	0.94
P-926 TO P-1828	0.92 INDOOR 0.955 OUTDOOR
P-2100 TO P-4001	1.0 (SAME AS NAT. GAS)

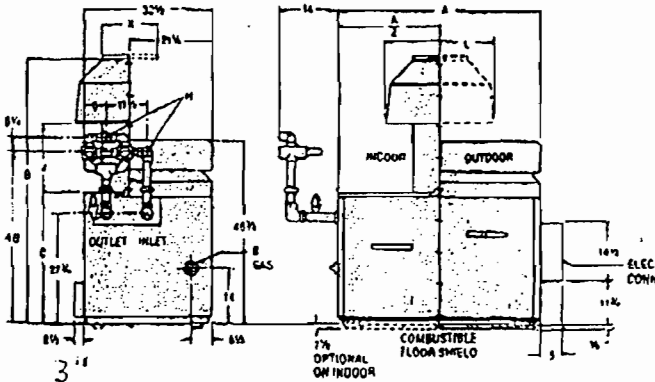
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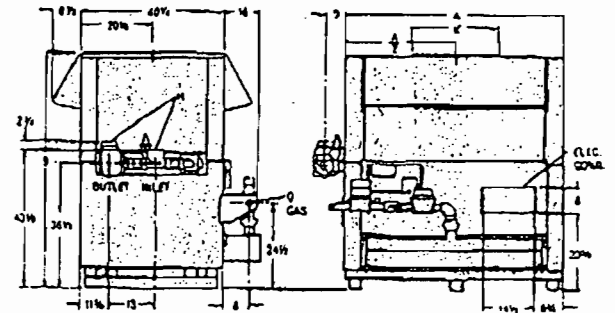
MODELS P-514 THRU P-824



MODELS P-926 THRU P-1223



MODELS P-1287 THRU P-1826



MODELS P-2100 THRU P-4001

**POOL HEATER SIZING TABLE**

**HOW TO USE THIS TABLE**

1. Select the desired swimming temperature of the pool water.
2. Determine the mean (average) temperature of the coldest month in which the pool will be used.
3. Subtract the mean temperature from the desired swimming temperature. The difference is the temperature rise.
4. Calculate the surface area of the pool in square feet.
5. Under the column headed by the temperature rise determined in Step 3, find the number close to, but not less than, the pool surface area from Step 4. On that line, in the left hand columns, will be the indoor and outdoor heater model numbers for the correct heater size. Specifications and Dimensions for all models are shown in the table on Page 2.

**SIZING FORMULA**

BTUH Input required = Pool Area (Sq. Ft.) x Desired Temperature Rise x 15.

Formula is based on 1° to 1-1/4°F. temperature rise per hour and 3-1/2 MPH average wind. Where high wind conditions exist, select heater one size larger than determined by formula or this table.

**FASTER HEATING**

For 1-1/2°F. rise per hour: Increase BTUH input by 50%.

For 2°F. rise per hour: Increase BTUH input by 100%.

Always select a heater equal to or larger than the requirement. Oversizing generally reduces fuel cost.

Table is based on a nominal 24 hour recovery period. To size a commercial pool based on a nominal 30 hour recovery period multiply listed pool size ("Pool Area in Square Feet") by a factor of 1.25. For special conditions consult factory.

HEATER MODEL NO.		DESIRED TEMP RISE IN DEGREES F.			
		20°	25°	30°	35°
INDOOR	OUTDOOR	POOL AREA IN SQUARE FEET			
P-514	P-514	1,700	1,360	1,135	970
P-624	P-624	2,090	1,670	1,390	1,190
P-724	P-724	2,420	1,935	1,610	1,360
P-824	P-824	2,750	2,200	1,830	1,570
P-926	P-926	3,085	2,465	2,055	1,760
P-1125	P-1083	3,610	2,885	2,405	2,060
P-1223	P-1178	3,925	3,140	2,615	2,240
P-1336	P-1287	4,250	3,430	2,860	2,480
P-1468	P-1414	4,710	3,765	3,140	2,690
P-1631	P-1571	5,230	4,185	3,485	2,990
P-1829	P-1758	5,860	4,685	3,905	3,345
P-2100	—	7,000	5,600	4,665	4,000
P-2500	—	8,330	6,660	5,550	4,760
P-3001	—	10,000	8,000	6,665	5,710
P-3500	—	11,665	9,330	7,775	6,665
P-4001	—	13,330	10,665	8,885	7,615



WALT DISNEY World Co.

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**BUREAU OF  
AIR REGULATION**

September 29, 1998

Mr. Clair Fancy, P.E.  
Chief, Bureau of Air Regulation  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Installation of one new paint spray booth  
and one new natural gas fired hot water generator

Dear Mr. Fancy:

Following the recent approach that your office has taken regarding the permitting of emissions units with low potential emissions, this letter proposes conditional exemptions from construction permitting requirements for one new paint spray booth and one hot water generator at the Walt Disney World Resort (WDW) complex.

The proposed new paint spray booth will be located in the North Service Area of the WDW property and will be used as a boat maintenance and painting facility. Based on the proposed production schedule and material usage rate, the booth has the potential to emit no more than 1.7 tons of VOCs per year. Please refer to Attachment A for the supporting documentation and material safety data sheets that verify this amount. Attachments B and C show the location and plot plan of the proposed emissions unit. The location on the plot plan is designated as NSA-17. At the current time, no finalized mechanical drawings or specifications are available for the booth, since this will be a design-build project. However, when construction is complete, the as-built plans for the booth can be sent to your office, if they are needed for the Title V records.

In addition, one natural gas-fired hot water generator (NGFHWG) is planned to be installed at the Disney-MGM Studios. This unit will be use for comfort heating in a new attraction, "Rock and Roliercoaster," and will burn only natural gas. It is requested that this unit be designated as STB-9. The NGFHWG is manufactured by Lochinvar and has a maximum heat input rating of 1.8 MMBtu/hr. This heat input corresponds to the following maximum potential emissions:

Pollutant:	CO	NO <sub>x</sub>	PM/PM <sub>10</sub>	SO <sub>2</sub>	VOC
Emissions, tpy:	0.166	0.788	0.094	0.005	0.046



Clair Fancy  
Page 2  
September 29, 1998

Please refer to Attachment D for the facility plot plan for the Disney-MGM Studios, the manufacturer specification sheets and for the calculations of the potential emissions for the unit. Also included are the professional engineer's certification and the responsible official's statement.

Since the potential emissions from each unit are very low, it is requested that the units be granted a conditional exemption from construction permitting requirements. Bruce Mitchell and I have discussed this issue in recent conversations and he has concluded that conditional exemptions are appropriate for these units. Also, since the WDW Title V permit is currently under review by Mr. Mitchell for modification, both of these new units can be included in the Title V operating permit in the near future.

If you have any questions or need any further information, please call me at 407-827-2748.

Sincerely,

Rich Bumar  
Environmental Control Representative  
Environmental Control Department

Enclosure

cc: Bob Beaver  
Leonard Kozlov  
Bruce Mitchell  
Armando Rodriguez (w/o enclosure)  
Lee Schmutde (w/o enclosure)  
Scott Sheplak (w/o enclosure)

# CONDITIONAL EXEMPTION REQUEST

WALT DISNEY WORLD CO.

SEPTEMBER 30, 1998

## SUPPLEMENTAL INFORMATION

### CONTENTS

RESPONSIBLE OFFICIAL'S STATEMENT

PROFESSIONAL ENGINEER'S CERTIFICATION

ATTACHMENT A

BOAT MAINTENANCE FACILITY  
•SPRAY BOOTH EMISSIONS CALCULATIONS  
•MATERIAL SAFETY DATA SHEETS

ATTACHMENT B

BOAT MAINTENANCE FACILITY PLOT PLAN

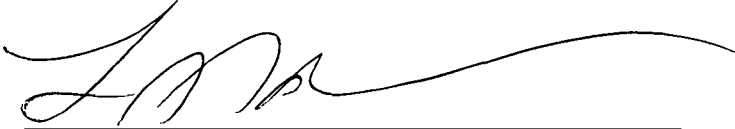
ATTACHMENT C

AREA MAP

ATTACHMENT D

ROCK AND ROLLERCOASTER  
HOT WATER GENERATOR:  
•FACILITY PLOT PLAN  
•EMISSIONS CALCULATIONS  
•SPECIFICATION SHEETS

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: Name: Lee Schmudde Title: Vice-President, Legal
2. Owner/Authorized Representative or Responsible Official Mailing Address:  Organization/Firm: Walt Disney World, Co. Street Address: P.O. Box 10,000 City: Lake Buena Vista State: FL Zip Code: 32830-1000
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (407 ) 828-3701 Fax: (407 ) 828-3239
4. Owner/Authorized Representative or Responsible Official Statement:  <i>I, the undersigned, am the owner or authorized representative* of the facility (non-Title V source) addressed in this Application for Air Permit or the responsible official, as defined in Chapter 62-213, F.A.C., of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. Further, I agree to operate and maintain the air pollutant emissions units and air pollution control equipment described in this application 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. If the purpose of this application is to obtain an air operation permit or operation permit revision for one or more emissions units which have undergone construction or modification, I certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>   Signature _____ Date <u>9/30/98</u>

\* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Robert Beaver  
Registration Number: 32528

2. Professional Engineer Mailing Address:

Organization/Firm: Walt Disney World Co.  
Street Address: P.O. Box 10,000  
City: Lake Buena Vista State: FL Zip Code: 32830-1000

3. Professional Engineer Telephone Numbers:

Telephone: (407) 828-1584 Fax: (407) 934-7927


4. Professional Engineer Statement:

*I, the undersigned, hereby certify, except as particularly noted herein\*, that:*

*(1) To the best of my knowledge, there is reasonable assurance (a) that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; or (b) for any application for a Title V source air operation permit, that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application;*

*(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application; and*

*(3) For any application for an air construction permit for one or more proposed new or modified emissions units, the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

Signature   
32528  
STATE OF FLORIDA  
REGISTERED ENGINEER

Date 9/30/98

\* Attach any exception to certification statement.

**Attachment A**

**NSA Boat Maintenance and Painting Facility**

Class	Manufacturer	Material Name	Maximum Annual Usage, gal	lb VOC/gal	Potential VOC Emissions		
					Annual lb	Annual tons	Hourly, lb/hr
Acrylic Polyurethane	Froggy Primers & Paints	Super-Zinc 5	100	3.5	350	0.18	8.8
Acrylic Polyurethane	Sikkens	Autocryl Filler (spray ready) <sup>1</sup>	100	4.4	437	0.22	10.9
Epoxy coating	American Finishes	Amer-Poxy primers (ready to spray) <sup>2</sup>	100	5.3	530	0.27	13.3
Epoxy primer	Sikkens	Washprimer CR (ready to spray) <sup>3</sup>	100	6.3	630	0.32	15.8
Polyurethane undercoat	Froggy Primers & Paints	Supertuff	100	3.0	300	0.15	7.5
Sign Paint	Akzo Nobel	Grip-Flex Intermix (ready to spray) <sup>4</sup>	50	7.6	380	0.19	19.0
Specialty Clear	Dupont	Adhesion Promoter 222S	50	6.6	330	0.17	16.5
Urethane Alkyd Enamel	Gavlon	Gavlon 510 (various colors)	100	4.6	460	0.23	11.5
<b>Totals</b>			<b>700 gallons</b>		<b>3,417</b>	<b>1.7</b>	<b>19.0</b>

Application Rates - based on production capacity

Typical Application Rate	<u>100 gal/yr</u>
Maximum usage rate:	<u>10 gal/hr</u>
Maximum usage rate:	<u>700 gal/yr</u>

**Emissions factor calculations:**

Annual pounds VOC applied:	<u>3,417</u>
Annual tons VOC applied:	<u>1.7</u>

<sup>1</sup>Reference technical data sheet, based on mix ratio of 10 parts paint , 5 parts hardener, 3 parts reducer

<i>Autocryl filler:</i>	<i>3.1 lb VOC/gal</i>
<i>Autocryl hardener 1•2•3 or MS40:</i>	<i>5.0 lb VOC/gal</i>
<i>Sikkens reducer 1•2•3 Slow:</i>	<i>7.6 lb VOC/gal</i>
Spray ready = (10 x 3.1 + 5 x 5.0 + 3 x 7.6) + 18 parts=	<b>4.4 lb VOC/gal</b>

<sup>2</sup>Reference technical data sheet, based on mix ratio of 2 parts AP primer, 1 part AP catalyst, 1 part UT reducer

<i>AP Primer</i>	<i>4.3 lb VOC/gal</i>
<i>AP Catalyst</i>	<i>5.2 lb VOC/gal</i>
<i>UT Reducer</i>	<i>7.4 lb VOC/gal</i>
Spray ready = (2 x 4.3 + 1 x 5.2 + 1 x 7.4) + 4 parts =	<b>5.3 lb VOC/gal</b>

<sup>3</sup>Reference technical data sheet, based on mix ratio of 1 parts Washprimer CR, 1 part Washhardener

<i>Washprimer CR</i>	<i>5.9 lb VOC/gal</i>
<i>Washhardener</i>	<i>6.7 lb VOC/gal</i>
Spray ready = (1 x 5.9 + 1 x 6.7) + 2 parts =	<b>6.3 lb VOC/gal</b>

<sup>4</sup>Reference technical data sheet, based on mix ratio of 1 parts Grip-Flex, 2 parts T2003 or T2004 reducers

<i>Grip-Flex</i>	<i>7.5 lb VOC/gal</i>
<i>T2003</i>	<i>6.8 lb VOC/gal</i>
<i>T2004</i>	<i>7.6 lb VOC/gal</i>
Spray ready = (1 x 7.5 + 2 x 7.6) + 3 parts =	<b>7.6 lb VOC/gal</b>



# FRÖGGY Primers & Paints

## SUPER-ZINC 5

**DESCRIPTION:** High solids, zinc loaded, moisture-cured single component polyurethane primer/top coat

**COLOR/GLOSS:** Light gray color - flat

**USE:** As a high performance primer on steel  
As a fast dry shop primer  
As a primer for polyurethane or epoxy top coats  
As a solution for coating cold or damp surfaces

**SOLIDS BY VOLUME:** 52%

**VOC CONTENT:** 3.5 pounds per gallon (442 grams per liter)

**COVERAGE:** 280 square feet at 3 MILS

**NUMBER OF COATS:** 1

**TYPICAL SYSTEMS:**

- a. 1 or 2 coats at 3 to 4 mils Super-Zinc 5
- b. 1 coat at 2 to 3 mils Super-Zinc 5 plus finish coats of polyurethanes

**DRY TIMES:**

- TO TOUCH: 15 to 30 minutes
- TO HANDLE: 4 to 6 hours
- TO RECOAT: 30 minutes with itself or 6 hours to overnight depending on top coat used
- TO IMMERSE: 1 hour

### FEATURES OF THIS PRODUCT:

- \* When applied by brush, coating will level out
- \* Can be applied over damp/cold surfaces
- \* Harder finish in less time than conventional primers. Smooth, dense finish, no overspray



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problems, no bubbling when topcoats are applied. Very fine zinc particle

- \* zinc-rich qualities give cathodic protection to coated steel
- \* can be applied below 32°F and humidities up to 99%
- \* single component advantage - no mixing or measuring

**APPLICATION INFORMATION:**

**SURFACE PREPARATION:**

- \* Immersion: SSPC-SP 10 "near white blast cleaning" with 1.0 to 2 mil profile
- \* non-immersion: SSPC-SP6 "commercial blast cleaning" as a minimum preferred

**METHOD:**

brush, roller, conventional or airless spray

**THINNER:**

Z-34

**ORDERING INFORMATION:**

**PACKAGING:**

1 gallon cans  
3 gallon drums

**ADDITIONAL INFORMATION:**

**SAFETY:**

see msds

**APPLICATION:**

see detailed directions

**TEMPERATURE RESISTANCE:**

dry continuous 360°F  
dry intermittent 420°F

**TECHNICAL:**

- \* see chemical resistance chart
- \* may be welded

This information is presented as accurate and correct, in good faith, to assist the user in specification and application. No warranty is expressed or implied. No liability is assumed. Product specifications are subject to change without notice.



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MEMBER



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## MATERIAL SAFETY DATA SHEET

MANUFACTURER: FROGGY PRIMERS & PAINTS  
P: O. Box 766  
BOCA RATON,  
FL 33429.  
USA.

EMERGENCY  
PHONE: [800]424-9300

PREPARATION  
DATE: October 1, 1996

### SECTION 1: IDENTIFICATION

PRODUCT NAME: SUPER ZINC  
DOT SHIPPING NAME: PAINT, PAINT RELATED MATERIAL  
DOT HAZARD CLASSIFICATION: FLAMMABLE LIQUID  
PRODUCT APPEARANCE & ODOR: LIQUID, SOLVENT ODOR

PRODUCT CODE: 6035  
DOT ID NUMBER: UN 1263

### SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %W/W	OSHA TWA	ACGIH TLV
NAPHTHA	64742-95-6	10-30	50 PPM	
ZINC	7440-66-6	30-60	10 MG/M3	
ZINC OXIDE	1314-13-2	1-5	10 MG/M3	
DIPHENYLMETHANE DIISOCYANATE (MD)	26447-40-5	1-5	0.02 MG/M3	

### SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING RANGE: 305<sup>o</sup>-340<sup>o</sup>F  
SPECIFIC GRAVITY: 2.65+5@ 77°F  
SOLUBILITY IN WATER: REACTS  
VISCOSITY: 1100 CPS @ 77°F

EVAPORATION RATE [BuAc = 1]: N/A  
VAPOR DENSITY [Air = 1]: NA  
VAPOR PRESSURE (mm Hg): 1.33 Kpa at 100°F  
VOIATILES (% WEIGHT): C. 22

### SECTION 4: REACTIVITY DATA

STABILITY: Stable  
CONDITIONS TO AVOID: sparks, open flames, heat and excessive heat  
INCOMPATIBILITY: Water, amines, strong bases, alcohols  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, oxides of nitrogen  
HAZARDOUS POLYMERIZATION: Will not occur

### SECTION 5: FIRE AND EXPLOSION INFORMATION

FLASH POINT (PM CC): 105°F  
NFPA HAZARD CLASS: 1  
[HAZARD RANKING: 0 = LEAST  
UNUSUAL FIRE/EXPLOSION HAZARDS: None known  
EXTINGUISHING MEDIA: Dry chemical, foam, water fog, CO2  
SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus in confined areas or when exposed to combustion products. Use water spray to cool fire exposed containers. Cover with sand or earth.  
HAZARDOUS COMBUSTION PRODUCTS: CO, CO2, OXIDES OF NOTROGEN, ZINC OXIDE FUMES

EXPLOSIVE LIMIT [% Vol.]: UPPER 7  
HEALTH: 1  
FLAMMABILITY: 3  
REACTIVITY: 1  
LOWER 0.5  
2 = MODERATE  
4 = EXTREME ]

### SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY

EYE CONTACT: May cause mild eye irritation.  
SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated skin contact may cause allergic sensitization.  
INHALATION: Breathing vapors or mists may cause irritation of the nose and throat.  
INGESTION: Ingestion of quantities may cause irritation of the digestive tract, and cause adverse heath effects.

### SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES

EYE CONTACT: Flush with lots of clean water for 15 minutes. If irritation or redness develops and persists, seek medical attention.  
SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.  
INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.  
INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth as this material can enter lungs and cause severe lung damage. If victim is drowsy or unconscious, place head on left side with the head down. If possible, do not leave victim unattended. Seek medical attention. NOTE TO PHYSICIAN; GASTRIC LAVAGE MAY BE NECESSARY

### SECTION 8: SPECIAL PROTECTION INFORMATION

VENTILATION: Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.  
RESPIRATORY PROTECTION: Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or cannisters [NIOSH approved] or supplied air equipment.  
EYE PROTECTION: Approved eye protection [ eg, goggles with side shields ] is recommended to safeguard against potential eye contact, irritation, or injury.  
SKIN: Chemical resistant gloves (butyl or nitrile rubber) recommended.  
OTHER PROTECTIVE MEASURES: WEAR IMPERMEABLE APRON & BOOTS. EYE BATH & SAFETY SHOWER SHOULD BE AVIALABLE.

COMMENTS:- A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:** Flammable Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Avoid eye and skin contact and inhalation of vapors. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike and pump away far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean-up of any spill material is recommended.

**WASTE DISPOSAL METHODS:** Dispose of product in accordance with local, state, and federal regulations.

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

Store in a cool, dry location. Store away from ignition sources. Store in tightly closed containers

**SECTION 11: PRECAUTIONARY WARNING**

**WARNING ! FLAMMABLE. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES [ eg, STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT ]. DO NOT TASTE OR SWALLOW. IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER .**

**SECTION 12: DOCUMENTARY INFORMATION**

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

The information in this document is believed to be correct as of the date of issuance. However, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED, OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION, OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose, and on the condition that he assumes the risk of his use thereof.

## AUTOCRYL® FILLER OFF WHITE

**DESCRIPTION:**

Autocryl Filler Off White is a tintable zinc chromate free acrylic urethane surfacer that can be used in two different ways:

1. As a wet-on-wet (non-sanding) primer-sealer that may be topcoated with Autocryl or Autobase.
2. As a primer-surfacer that can be sanded for extra smoothness. Being urethane based, Autocryl Filler Off White provides excellent holdout of gloss of the topcoats applied over it.

Its wet-on-wet qualities make it an ideal primer-sealer for air refinishing and commercial vehicle finishing. For commercial vehicles, it is recommended to first apply a coat of Washprimer CR.

**PRODUCT & ADDITIVES:**

**PRODUCT:**

Autocryl Filler Off White

**HARDENERS:**

- Autocryl Hardener 1-2-3™
- Autocryl Hardener MS40: may be used in place of Autocryl Hardener 1-2-3. This will not affect the mixing ratio, flow or drying characteristics of Autocryl Filler Off White (See TDS #6.58).

**REDUCERS:**

- Sikkens Reducer 1-2-3 Fast: for spot and panel repairs.  
Temperature Range: 60°F–75°F (16°C–24°C).
- Sikkens Reducer 1-2-3 Slow: for spot and panel repairs.  
Temperature Range: 70°F–85°F (20°C–30°C). Also for larger areas at lower temperatures.
- Sikkens Reducer 1-2-3 Extra Slow: for larger areas and overall refinishing.  
Temperature Range: 80°F–95°F (27°C–35°C).

**ADDITIVES:**

- Sikkens Retarder: to be used in combination with Sikkens Reducer 1-2-3 during high temperature or white spraying very large objects (See TDS #6.20).
- Autocryl Elast-O-Actif: to be used to increase the flexibility of Autocryl Filler Off White when applied to plastic parts (See TDS #6.8).

**BASIC RAW MATERIALS:**

Autocryl Filler Off White: Hydroxy acrylic resins  
Autocryl Hardener 1-2-3: Polyisocyanate resin  
Autocryl Hardener MS40: Polyisocyanate resin

**APPLICATION:**



1.

Contains acrylic resins, xylene and other ingredients. When mixed, Autocryl Filler Off White contains isocyanates.



2.

100:50:30  
Autocryl Filler Off White  
Autocryl Hardener 1-2-3/  
Autocryl Hardener MS40  
Sikkens Reducer 1-2-3



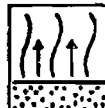
3.

Use the Sikkens Measuring Stick #1 (Black).



4.

2-3:1  
0.057"–0.067" (1.4–1.7 mm)  
40–50 psi (3–4 bar)



5.

5–10 minutes at 70°F (20°C)



6.

(Wet-On-Wet)  
Minimum 15 min. at 70°F (20°C)  
(Non-Sanding)  
Maximum 7 hours at 70°F (20°C)

**AUTOCRYL® FILLER OFF WHITE**

**SUITABLE SURFACES:**

Autocryl Filler Off White can be applied over:

- Existing finishes, degreased and sanded with #240 to #320 grit paper dry or #400 to #500 grit wet.
- Steel, degreased and sanded with #80 then #120 grit dry.
- Fiberglass gelcoat, degreased and sanded with #240 grit dry. If the gelcoat is broken and has been sanded through, under no circumstance should Autocryl Filler Off White be applied. Recommended is the use of Polysurfacer. Please see TDS #3.5.1.
- Autocryl Filler 3+1 or Autonova® Filler, sanded with #320 to #360 grit dry or #500 to #600 grit wet.
- Sikkens Washprimers, after applying 1 coat, allow Washprimer CR to dry for 15–20 minutes or Washprimer EM to dry for 30 minutes. Then, non-sanding, proceed with Autocryl Filler Off White.
- Primer Surfacer EP, allow the correct drying time, then sand with #320 to #360 grit paper dry or #500 to #600 grit wet.
- Kombi Putty, sanded with #240 to #280 grit dry or #400 to #500 grit wet.

Although Autocryl Filler Off White will provide adequate adhesion and protection when applied directly over bare steel, for larger areas or new vehicles including zinc coating, stainless steel and aluminum, Autocryl Filler Off White must always be applied over Washprimer CR. (See TDS #1.1.8)

**MIXING RATIO:**

100 Parts by volume of Autocryl Filler Off White  
50 Parts by volume of Autocryl Hardener 1-2-3 or Autocryl Hardener MS40  
30 Parts by volume of Sikkens Reducer 1-2-3.  
For easy and accurate mixing, use the Sikkens Measuring Stick #1 (black).

**SPRAYING VISCOSITY:**

17–18 sec. ZAHN cup #2 (15–16 sec. DIN cup #4) at 70°F (20°C)

**POT LIFE:**

Four hours at 70°F (20°C) Two hours at 80°F (28°C)

**SPRAY GUN & PRESSURE:**

	Fluid Tip	Spraying Pressure	Fluid Pressure
Siphon Feed	0.055"–0.067" (1.4–1.7 mm)	40–50 psi (3–4 bar)	
Gravity Feed	0.051"–0.055" (1.3–1.4 mm)	40–50 psi (3–4 bar)	
Pressure Feed	0.039"–0.047" (1.0–1.2 mm)	40–50 psi (3–4 bar)	8–10 psi (0.6–0.8 bar)
HVLP Siphon	0.071"–0.087" (1.8–2.2 mm)	max 10 psi (max 0.8 bar)	
HVLP Gravity	0.051"–0.059" (1.3–1.5 mm)	max 10 psi (max 0.8 bar)	

## AUTOCRYL® FILLER OFF WHITE

### APPLICATION METHOD:

- As a Wet-On-Wet (Non-Sanding) Primer Sealer:  
Always spray one thin, single coat first, especially over bare metal areas. Allow this to flash for 5–10 minutes, then apply one single wet coat. If necessary, one more single coat may be applied after an additional 5–10 minute flash time.
- As a Primer-Surfacer that can be sanded for extra smoothness:  
Apply two to three single flowing coats, allowing 5–10 minutes flash time between coats. The number of coats depends on the film thickness desired.

### FILM THICKNESS:

1.0–1.2 mil per single wet coat.

### CLEANING OF EQUIPMENT:

With Sikkens Cleaning Solvent or lacquer thinner.

### DRYING TIME:

	70°F (20°C)	80°F (27°C)	100°F (38°C)	140°F (60°C)
To Sand	8 hours	7 hours	3 hours	1 hour
To Recoat (wet-on-wet)	15 minutes	10 minutes	10 minutes	N/A

### NOTE:

Autocryl Filler Off White can be top coated wet-on-wet after a flash off time of 15 minutes at 70°F (20°C) at which time the product has set to an eggshell gloss. Within a maximum of 7 hours at 70°F (20°C), it can be top coated with Autocryl and Autobase without sanding. After a drying time of 7 hours at 70°F (20°C), Autocryl Filler Off White must be sanded before further recoating.

### SANDING:

After the stated dry times, Autocryl Filler Off White can be sanded with #360 to #400 grit paper dry or #500 to #600 grit wet.

### RECOATABILITY:

Autocryl Filler Off White (wet-on-wet or sanded) can be top coated with either Autocryl or Autobase.

### SPOT REPAIRS:

Spot repairs or fading out can be made with Autocryl Filler Off White (wet-on-wet). After applying the two coats in the repair area, add to the ready to spray material, 100% Sikkens Reducer 1-2-3 and fade out in the area adjacent to the repair. Then spray pure Reducer SRA to complete the fade out. (See TDS #6.28, Reducer SRA.)

### TINTING:

If desired, Autocryl Filler Off White can be tinted with 10% of Autocryl toners. Recommended toners are: Black 242, Red 568, Blue 575, Green 722, Yellow 559.

spray pure Reducer SRA to complete the fade out. (See TDS #6.28, Reducer SRA.)

**TINTING:**

As desired, Autocryl Filler Off White can be tinted with 10% of Autocryl toners. Recommended toners are: Black 242, Red 568, Blue 575, Green 732, Yellow 558. The Autocryl toner should be added before hardening and reducing Autocryl Filler Off White.

**COVER RATE:**

Approximately 270 sq. ft./liter of unmixed paint per single coat.



**AUTOCRYL® FILLER OFF WHITE**

**STOCK KEEPING:**

**COLOR:** Off-white

**CONTAINER SIZE:**

Autocryl Filler Off White: 1 quart (946 ml) and 1 gallon (3.785 lt)  
Autocryl Hardener 1-2-3: 1 quart (946 ml) and 1 gallon (3.785 lt)  
Autocryl Hardener MS40: 1 pint (475 ml), 1/2 gallon (1.89 lt) and 1 gallon (3.785 lt)  
Sikkens Reducer 1-2-3: 1 gallon (3.785 lt) and 5 gallons (18.9 lt)

**SHELF LIFE:**

Autocryl Filler Off White: Two years if stored unopened at room temperature  
Autocryl Hardener 1-2-3: One year if stored unopened at room temperature  
Autocryl Hardener MS40: One year if stored unopened at room temperature

**SAFETY ASPECTS:**

**FLASH POINTS (CLOSED CUP):**

Autocryl Filler Off White: 78°F (26°C)  
Autocryl Hardener MS40: 97°F (36°C)  
Autocryl Hardener 1-2-3: 81°F (27°C)  
Sikkens Reducer 1-2-3 Extra Slow: 75°F (24°C)

**VOC CONTENT:**

Autocryl Filler Off White: 3.1 lb/gal 170 g/liter  
Autocryl Hardener 1-2-3: 5.0 lb/gal 100 g/liter  
Autocryl Hardener MS40: 5.0 lb/gal 100 g/liter  
Sikkens Reducer 1-2-3 Slow: 7.6 lb/gal 170 g/liter

**READY TO SPRAY VOC:**

Mixing Ratio: 100:50:30 4.3 lb/gal 115 g/liter

**NOTICE:**

Do not handle until the Material Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an air supplied respirator when exposed to vapors or spray mist.

02



PRODUCT AND APPLICATION  
INFORMATION

Page 1 of 3

June 1996

**AP440sp (gray), AP450sp (white),  
AP410Csp (epoxy primer catalyst), AP420Csp (fast primer catalyst)**

**DESCRIPTION:**

Amer-Poxy primers, mixed 2:1 with AP410Csp or AP420Csp catalyst, produce a lead and chromate free epoxy primer that provides excellent adhesion to many types of properly prepared steel, galvanized steel, fiberglass, aluminum, and plastic body fillers. Amer-Poxy primers are corrosion resistant. With some reduction modification they may be used as an excellent sealer to be topcoated with American Finishes fleet and automotive refinish color coats.

**PRODUCTS:**

AP440sp	Gray Epoxy Primer
AP450sp	White Epoxy Primer
AP410Csp	Epoxy Primer Catalyst
AP420Csp	Fast Epoxy Primer Catalyst

**PREPARATION:**



Wash surface with soap and water, then clean with ST600sp Wax and Grease Remover or ST700sp Low VOC Wax and Grease Remover.

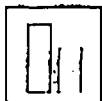


Sand bare metal with 80-180 grit abrasive. Sand old finishes with 320-400 grit dry or 600 grit wet.

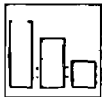


Reclean with ST600sp or ST700sp. Chemical treatment or the use of conversion coatings will improve adhesion and performance of the finish system. Prime aluminum and stainless substrate within 72 hours. **PRIME CARBON STEEL IMMEDIATELY AFTER CLEANING.**

**MIXING:**



2 parts AP Primer : 1 part AP Catalyst gives 6# VOC/gal.



2 parts AP Primer : 1 part AP Catalyst : 1/2 part UT Reducer gives 5.0# VOC/gal.  
2 parts AP Primer : 1 part AP Catalyst : 1 part UT Reducer gives 5.3# VOC/gal.

Amer-Poxy

AMERICAN FINISHES ★ 8201 - 100TH Street ★ Kenosha, Wisconsin 53142-7739

Phn: 800-947-4349 ★ Fax: (414)947-0444

Amer-Poxy Primers may be reduced as sealers with UT reducers based upon current VOC limits. Above information indicates VOC per gallon at different reductions.

**DO NOT BLEND AP410Csp AND AP420Csp CATALYSTS.**



Note - thoroughly mix AP Primer and AP Catalyst (5 minutes mechanical agitation recommended). Once mixed, allow 30 minutes induction period if using AP410Csp. No induction period is necessary if using AP420sp.



Pot Life:  
with AP410Csp : 72 hours at 70°F (21°C)  
with AP420Csp : 8 hours at 70°F (21°C)

**APPLICATION INSTRUCTIONS:**



Air Pressure HVLP: 10psi at the air cap  
Conventional: 50psi at the gun



Coats: Apply 1-2 medium coats to achieve 0.7-1.5 mils Dry Film Thickness. Apply 1.0 mils minimum over bare metal.

**DRY TIMES:**



Between coats allow 10-15 minutes



Dry time to topcoat:	<u>AP410Csp</u>	<u>AP420Csp</u>
Primer w/o reducer	60 minutes	30 minutes
Sealer w/reducer	30 minutes	15 minutes



**NOTE:** If used over lacquer products all topcoats must be applied the same day or lifting will occur.

**TINTING & ADDITIVES:**

Amer-Poxy Primer cannot be tinted. AP primers may be blended if all portions are properly catalyzed. Additives cannot be added to AP primers.

**PAINTING OF FLEXIBLE PARTS:**

Amer-Poxy Primer reduced as a sealer with UT reducer may be used on flexible parts other than bare polypropylene or TPO substrates. Use AP410Csp catalyst. Do not use AP420Csp catalyst.

Amer-Poxy

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**REPAIR OR RECOATING:**

Amer-Poxy primer may be recoated up to one week. After one week AP primer must be cleaned with ST600sp or ST700sp Wax and Grease Remover then scuffed with a medium/fine Scotchbrite™ or fine sandpaper.

Reclean with ST600sp or ST700sp and reapply one additional coat of AP primer. Allow 30 minutes dry time at 70°F (21°C) before applying additional finishing products.

---

**CLEAN UP:**

Clean equipment thoroughly with UT Reducer or other appropriate solvent after each use.

Follow EPA guidelines for proper storage and disposal of solvent borne waste paint.

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**PROPERTIES:**

VOC AP Primer-	Package:	4.3 lbs/gallon US
VOC AP Catalyst-	Package:	5.2 lbs/gallon US
VOC - 2:1 Ratio-	Applied:	4.6 lbs/gallon US
Excellent humidity resistance (500 hrs. at 100°F/38°C and 100% relative humidity)		
Excellent salt spray resistance (500 hrs at 100°F/38°C with 5% solution)		
Very good color holdout		

**IMPORTANT**

The contents of this package may have to be blended with other components before the product can be used.

Before opening the packages, be sure you understand the warning messages on the labels of all components, since the mixture will have hazards of all its parts. Spray equipment must be handled with due care and in accordance with manufacturer's recommendations. Follow label directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

See Material Data Safety Sheet and Labels for additional information and handling instructions.

**EMERGENCY MEDICAL OR SPILL CONTROL INFORMATION (800)424-9300; IN CANADA (514)645-1320.**

**WARNING**

Proper performance of Amer-Poxy Primers and other American Finishes products requires blending, according to directions, of multiple products. Substitution of alternate materials, whether American Finishes brand or other, or varying from specified ratios, voids any and all written, unwritten or implied performance warranties.

Amer-Poxy

TECHNICAL DATA SHEET  
1.1.8, Page 1 of 3  
November, 1995

### WASHPRIMER CR

#### DESCRIPTION:

A transparent yellow, self-etching washprimer with superior corrosion resistance and excellent adhesion on steel, galvanized steel, aluminum and stainless steel. Initially developed for the aircraft industry, but modified to be used in the car refinishing, commercial and agricultural vehicle market eliminating the need for metal conditioning.






#### PRODUCT & ADDITIVES:

**PRODUCT:** Washprimer CR

**HARDENER:** Washhardener

**BASIC RAW MATERIAL:**  
Washprimer CR: Polyvinyl butyral resins  
Washhardener: Phosphoric acid

#### APPLICATION:

1. 
2. 
3. 
4. 
5. 

Contains polyvinyl butyral resins.  
When mixed, contains phosphoric acid.

100:100  
Washprimer CR  
Washhardener

Use the Sikkens Measuring Stick.  
All Measuring Sticks may be used.

1x1  
0.063"-0.071" (1.6-1.8 mm)  
40-50 psi (3-4 bar)

(non-sanding)  
After 15 minutes at 70°F (20°C)  
Within 8 hours at 70°F (20°C)

#### SUITABLE SURFACES:

- Steel, after degreasing and sanding with #80 then #120 grit paper dry or scuff with a red scuffing pad.
- Galvanized steel, after degreasing and sanding with #120 grit dry or scuff with a red scuffing pad.
- Aluminum, after degreasing, scuff with a red scuffing pad or sand with #150 to #180 grit dry.
- Stainless steel, after degreasing and sanding with #150 to #180 grit dry or scuff with a red scuffing pad.

—Stainless steel, after degreasing and sanding with #150 to #180 grit dry or scuff with a red scuffing pad.

15  
15

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November, 1995

**WASHPRIMER CR**

**MIXING RATIO:** Mix: 100 parts by volume of Washprimer CR with  
100 parts by volume of Washhardener  
For easy and accurate mixing, use the Sikkens Measuring Stick.

**SPRAYING VISCOSITY:** The proper spraying viscosity is achieved by using a 1:1 mixing ratio.  
17-18 sec. ZAHN cup #2 (15-16 sec. DIN #4) at 70°F (20°C).

**POT LIFE:** 8 hours at 70°F (20°C).

**SPRAY GUN & PRESSURE:**

	Fluid Tip	Spraying Pressure	Fluid Pressure
Siphon Feed	0.063"–0.071" (1.6–1.8 mm)	40–50 psi (3–4 bar)	
Gravity Feed	0.055"–0.063" (1.4–1.6 mm)	40–50 psi (3–4 bar)	
Pressure Feed	0.039"–0.047" (1.0–1.2 mm)	40–50 psi (3–4 bar)	8–10 psi (0.6–0.8 bar)
HVLP Siphon	0.087"–0.099" (2.2–2.6 mm)	max 10 psi (max 0.8 bar)	
HVLP Gravity	0.059"–0.071" (1.5–1.8 mm)	max 10 psi (max 0.8 bar)	

RECOMMENDED  
CONDITIONS OF

# Best Available Copy

## RECOMMENDED CONDITIONS OF APPLICATION:

Minimum temperature: 60°F (15°C)  
Relative humidity: maximum 75%

## APPLICATION METHOD:

Only apply one medium coat. Do not attempt to spray until coverage is achieved since the material is transparent.

## FILM THICKNESS:

0.3 - 0.4 mils for this one medium coat.

## CLEANING OF EQUIPMENT:

With Sikkens Cleaning Solvent or lacquer thinner.

## DRYING TIME:

	60°F (15°C)	70°F (20°C)	100°F (38°C)
Dust Free	15 minutes	10 minutes	8 minutes
Recoat	25 minutes	15 minutes	10 minutes
To Sand	N/A	N/A	N/A

## NOTE:

Do not sand Washprimer CR.

TECHNICAL DATA SHEET  
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## WASHPRIMER CR

**RECOATABILITY:** Washprimer CR can be recoated (non-sanding) after 15 minutes but within 8 hours at 70°F (20°C) with: Autocryl® Filler 3+1, Autocryl Filler 3110, Autocryl Filler Off White, Autocryl Sealer Transparent, Autosurfacer Non-Sanding, Autonova® Filler, Priming

# Best Available Copy

**RECOATABILITY:** Washprimer CR can be recoated (non-sanding) after 15 minutes but within 8 hours at 70° (21°C) with: Autocryl® Filler 3+1, Autocryl F 3110, Autocryl Filler Off White, Autocryl Sealer Transparent, Autosurfacer Non-Sanding, Autonova® Filler, Priming Filler 680, Autocoat L.V, and Autocryl.

**NOTE:** Do not apply Autobase directly over Washprimer CR.

**NOTE:** Never apply a polyester based product directly over Washprimer CR.

**COVER RATE:** Approximately 260 sq. ft./liter of unmixed paint per single coat.

## STOCK KEEPING:

**COLOR:** Yellow

## CONTAINER SIZE:

Washprimer CR: 1 quart (946 ml) and 1 gallon (3.785 lt)  
Washhardener: 1 quart (946 ml) and 1 gallon (3.785 lt)

**SHELF LIFE:** One year if stored unopened at room temperature.

## SAFETY ASPECTS:

### FLASH POINT (CLOSED CUP):

Washprimer CR: 55°F (13°C)  
Washhardener: 46°F (8°C)

### VOC CONTENT:

Washprimer CR: 5.9 lb/gal      710 g/liter  
Washhardener: 6.7 lb/gal      805 g/liter

### READY TO SPRAY VOC:

Washprimer CR: 6.3 lb/gal      755 g/liter

### NOTICE:

Do not handle until the Material Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an organic vapor respirator or air supplied respirator when exposed to vapors or spray mist.



# FRÖGGY Primers & Paints

## SUPERTUFF

- DESCRIPTION:** MIOX flake filled, moisture-cured, single component, highly refined coal tar polyurethane, highly chemically resistant coating.
- COLOR/GLOSS:** Black; matte finish.
- USE:**
- \* As a safe substitute for coal tar epoxy.
  - \* As a fast-set immersion finish coat for concrete, steel, or aluminum.
- SOLIDS BY VOLUME:** 60%
- VOC CONTENT:** 3 pounds per gallon (356 grams per liter.)
- COVERAGE:** Theoretical 239 square feet at 4 mils.
- NUMBER OF COATS:**
- \* As a finish coat: 1 or 2
  - \* As a system (no primer): 3
- TYPICAL SYSTEMS:**
- 3 coats at 4 to 5 mils per coat
  - or
  - 1 coat **SUPER-ZINC** at 2 to 3 mils.
  - 2 coats of **SUPERTUFF** at 4 to 5 mils per coat.
- DRY TIMES:**
- To Touch: 1 to 2 hours
  - To Handle: 12 hours
  - To Recoat: 2 to 4 hours
  - To Immerse: 1 hour

### FEATURES OF THIS PRODUCT:

- \* Can immerse in one hour of application.
- \* No window on recoat times.
- \* Can be applied during humid or foggy conditions or in temperatures below freezing.
- \* Coal tar is refined and, so has less odor than coal tar epoxy
- \* Exceeds chemical resistance of coal tar epoxy.
- \* Excellent abrasion resistance, due to MIOX content.
- \* Will bond well to existing coal tar epoxy
- \* Bonds well to shop applied **SUPER-ZINC**.
- \* Out performs any coal tar epoxy.

Froggy Primers & Paints PO Box 766 Boca Raton, FL 33429  
Phone 561-393-0336, FAX 561-395-5262, eMail froggyfl@aol.com



<b>Temperature Resistance:</b>	Dry continuous:	250°F.
	Dry intermittent:	300°F.
	Wet continuous:	176°F.
	Wet intermittent:	212°F.

**APPLICATION INFORMATION:**

**Surface Preparation:** Over other materials: Clean; may be damp.  
Over bare steel: SSPC-SP10 "Near White Blast Cleaning".

**Method:** By mitt, brush, roller, conventional or airless spray

NOTE: Can be applied to marginally or lightly rusted surfaces as long as loose particles have been removed. Some reduction of ultimate performance may be encountered.

**Thinner:** Thinner: Z-34

**ORDERING INFORMATION:**

**Packaging:** 1 gallon cans.  
5 gallon drums.

**Weight (Net):** 12.1 pounds per gallon.

**ADDITIONAL INFORMATION:**

**Safety:** See MSDS sheet.

**Application:** See application instructions.

**LIMITATION OF LIABILITY**

To the best of our knowledge, the technical data contained herein are true and accurate at the date of issuance, and are not subject to change without prior notice. User must contact FROGGY to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to FROGGY quality control. We assume no responsibility for coverage, performance, or injuries resulting from its use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY FROGGY, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING FITNESS FOR A PARTICULAR PURPOSE.



This information is presented as accurate and correct, in good faith, to assist the user in specification and application. No warranty is expressed or implied. No liability is assumed. Product specifications are subject to change without notice.

MEMBER



## MATERIAL SAFETY DATA SHEET

MANUFACTURER: FROGGY PRIMERS & PAINTS  
P. O. Box 766  
BOCA RATON,  
FL 33429.  
USA.

EMERGENCY  
PHONE: (800)424-9300

PREPARATION  
DATE: October 1, 1996

SECTION 1: IDENTIFICATION

PRODUCT NAME: SUPER TUFF  
DOT SHIPPING NAME: PAINT, PAINT RELATED MATERIAL  
DOT HAZARD CLASSIFICATION: FLAMMABLE LIQUID  
PRODUCT APPEARANCE & ODOR: LIQUID, SOLVENT ODOR

PRODUCT CODE: 6035  
DOT ID NUMBER: UN 1263

SECTION 2: COMPONENTS & HAZARD INFORMATION

COMPONENT	CAS No.	CONC. %W/W	OSHA TWA
NAPHTHA	64742-95-6	10-30	100
REFINED TAR, VOLATILES	65996-93-2	1-10	N/D
4.4 DIPHENYLMETHANE	101-68-6	1-3	0.02 mg
DIISOCYANATE (MDI)			
MICACIOUS IRON OXIDE	12715-03-0	10-30	10MG/M3

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING RANGE: 305°-340°F      EVAPORATION RATE [BuAc = 1]: N/A  
SPECIFIC GRAVITY: 1.43 @ 77°F      VAPOR DENSITY [Air = 1]: NA  
SOLUBILITY IN WATER: REACTS      VAPOR PRESSURE 1.33 Kpa at 100°F

SECTION 4: REACTIVITY DATA

STABILITY: Stable      CONDITIONS TO AVOID: sparks, open flames, heat and excessive heat  
INCOMPATIBILITY: Water, amines, strong bases, alcohols  
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, oxides of nitrogen  
HAZARDOUS POLYMERIZATION: Will not occur

SECTION 5: FIRE AND EXPLOSION INFORMATION

FLASH POINT (PM CC): 105°F      EXPLOSIVE LIMIT [% Vol.]: UPPER 7      LOWER 0.6  
NFPA HAZARD CLASS      HEALTH: 2      FLAMMABILITY: 3      REACTIVITY: 1  
[HAZARD RANKING: 0 = LEAST      1 = SLIGHT      2 = MODERATE      4 = EXTREME ]  
UNUSUAL FIRE/EXPLOSION HAZARDS: None known  
EXTINGUISHING MEDIA: Dry chemical, foam, water fog, CO2  
SPECIAL FIRE-FIGHTING PROCEDURES: Wear self-contained breathing apparatus in confined areas or when exposed to combustion products. Use water spray to cool fire exposed containers. Cover with sand or earth.

SECTION 6: HEALTH HAZARDS AND ROUTES OF ENTRY

EYE CONTACT: May cause mild eye irritation.  
SKIN CONTACT: May cause mild skin irritation. Prolonged or repeated skin contact may cause allergic sensitization.  
INHALATION: Breathing vapors or mists may cause irritation of the nose and throat.  
INGESTION: Ingestion of quantities may cause irritation of the digestive tract, and cause adverse health effects.

SECTION 7: EMERGENCY AND FIRST-AID PROCEDURES

EYE CONTACT: Flush with lots of clean water for 15 minutes. If irritation or redness develops and persists, seek medical attention.  
SKIN CONTACT: Remove contaminated clothing and wash affected areas thoroughly with mild soap and water. If irritation or redness develops and persists, seek medical attention.  
INHALATION: Move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.  
INGESTION: Aspiration hazard. Do not induce vomiting or give anything by mouth as this material can enter lungs and cause severe lung damage. If victim is drowsy or unconscious, place head on left side with the head down. If possible, do not leave victim unattended. Seek medical attention. NOTE TO PHYSICIAN: GASTRIC LAVAGE MAY BE NECESSARY

SECTION 8: SPECIAL PROTECTION INFORMATION

VENTILATION: Maintain airborne concentrations below the established exposure limits [see Section 2] via mechanical ventilation or exhaust systems as necessary.

**RESPIRATORY PROTECTION:** Respiratory protection is advised when concentrations exceed the established exposure limits. Depending on the airborne concentration use a respirator or gas mask with appropriate cartridges or canisters [NIOSH approved] or supplied air equipment.

**EYE PROTECTION:** Approved eye protection [ eg, goggles with side shields ] is recommended to safeguard against potential eye contact, irritation, or injury.

**SKIN:** Chemical resistant gloves (butyl or nitrile rubber) recommended.

**COMMENTS:** A source of clean water should be readily accessible in the work area for flushing eyes and skin. Chemical and solvent resistant clothing should be worn. Good manufacturing practices should always be followed.

**SECTION 9: SPILL AND LEAK PROCEDURES**

**PRECAUTIONS IN CASE OF RELEASE OR SPILL:** Flammable Keep all sources of ignition and hot metal surfaces away from spill/release. Isolate hazard area and limit entry. Stop spill/release if it can be done without risk. Wear appropriate protective equipment as conditions warrant. Avoid eye and skin contact and inhalation of vapors. Prevent spilled material from entering sewers, storm drains, and natural waterways. Dike and pump away far ahead of spill for later recovery and disposal. Use absorbent material for pick-up. Notify fire authorities and appropriate federal, state, and local agencies. Immediate clean-up of any spill material is recommended.

**WASTE DISPOSAL METHODS:** Dispose of product in accordance with local, state, and federal regulations.

**SECTION 10: STORAGE AND SPECIAL PRECAUTIONS**

Store in a cool, dry location. Store away from ignition sources. Store in tightly closed containers.

**SECTION 11: PRECAUTIONARY WARNING**

**WARNING ! FLAMMABLE. ASPIRATION HAZARD IF SWALLOWED. CAN ENTER LUNGS AND CAUSE DAMAGE. KEEP AWAY FROM HEAT, SPARKS, FLAME, OR OTHER IGNITION SOURCES ( eg, STATIC ELECTRICITY, PILOT LIGHTS, OR MECHANICAL/ELECTRICAL EQUIPMENT ). DO NOT TASTE OR SWALLOW. IF SWALLOWED, DO NOT INDUCE VOMITING. CALL A PHYSICIAN. IN CASE OF CONTACT, FLUSH EYES OR SKIN WITH LOTS OF CLEAN WATER .**

**SECTION 12: DOCUMENTARY INFORMATION**

**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES**

The information in this document is believed to be correct as of the date of issuance. However, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED, OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION, OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.

This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose, and on the condition that he assumes the risk of his use thereof.



## GRIP-FLEX™ INTERMIX

### DESCRIPTION:

GRIP-FLEX Intermix Sign Paint is a color matching system designed for the backlit sign industry. Over 2,000 colors are available at your fingertips, from 16 base colors, whenever needed. Additional color formulations are being developed continuously to make this mixing system the most versatile in the sign industry today.

All color formulations are made by weight, which provides the most accurate, reproducible colors possible.

GRIP-FLEX Intermix Sign Paint does not contain lead.

### PRODUCT & ADDITIVES

**MAIN PRODUCT:** GRIP-FLEX Intermix Sign Paint

**REDUCERS:** USE ONLY T-2003 OR T-2004 when spraying plastic. DO NOT USE aromatic solvents, such as xylene, toluene, T-2001 or T-2002. GRIP-FLEX Intermix is not compatible with aromatic reducing solvents.

### BASIC RAW MATERIALS:

GRIP-FLEX Intermix: Acrylic resins and completely lead free pigment system.

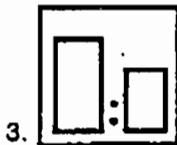
### APPLICATION:



Contains acrylic resins, solvent and other special ingredients.



Remove any existing surface contaminants and static electricity.



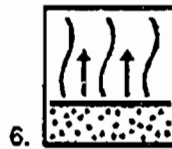
100 parts GRIP-FLEX  
200 parts reducer



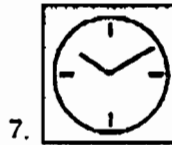
Siphon feed: .063" (1.6 mm)  
 Pressure feed: .043" (1.1 mm)  
 Gravity feed: .055" (1.4 mm)  
 HVLP: .031-.059" (0.8-1.5 mm)



Spray 4-12 light coats depending on the color and translucency desired.



Flash 3-5 minutes between each coat.



Dry to recoat:  
at 70°F (20°C) 10 minutes  
 Dry for installation:  
at 70°F (20°C) 24 hours

### SUITABLE SURFACES:

- Acrylic, impact modified acrylic, ABS, CAB polycarbonate, styrene, and most rigid and flexible vinyls.
- Existing GRIP-FLEX finishes.



091510  
 TECHNICAL DATA SHEET  
 Page 2 of 2  
 October, 1994

## GRIP-FLEX™ INTERMIX

### APPLICATION TECHNIQUES FOR PLASTIC:

When spray painting a backlit sign, it is essential that some type of back lighting is utilized. This will allow the spray painter to apply the paint more evenly, obtaining the desired reflected and transmitted color.

When painting translucent colors on plastic, you will be required to build up the paint film slowly. Use many light coats. If one or two heavy coats are used, undesirable light and dark spots, known as mottling, will appear. Usually 6-12 fine coats are required. Allow 3-5 minutes flash between coats. Note, the 6-12 coat rule is a guideline. The spray pattern, equipment, viscosity, temperature, and operator experience will play an important role in achieving the desired result.

When spraying darker, more opaque intermix color formulations, it is necessary to use Matte Clear (10AFR-02201). When mixing with the paint, in a proportion of 1:1 by volume before thinning, Matte Clear will make it possible for you to apply more coats, thereby, minimizing mottling.

This technique can be used with any color to obtain a more even film build.

### APPLICATION TO FLEXIBLE VINYL:

Refer to VPS Technical Data Sheet.

### APPLICATION TO HIGH-IMPACT ACRYLIC:

When decorating High-Impact Acrylic, use the High Impact Additive (10AFR-022750) to prevent loss of impact resistance.

### STOCK KEEPING:

<b>COLOR:</b>	16 toner colors
<b>CONTAINER SIZE:</b>	1 gallon (3.785 liters) and 1 liter
<b>POT LIFE:</b>	After reducer added - 3 months
<b>SHELF LIFE:</b>	Two years if unopened containers are stored at room temperature.

### SAFETY ASPECTS:

#### NOTICE:

Do not handle until the Material Safety Data Sheets have been read and understood. Regulations require that all employees be trained on Material Safety Data Sheets for all chemicals with which they come in contact. The manufacturer recommends the use of an organic vapor respirator or air supplied respirator when exposed to vapors or spray mist.

### DISCLAIMER:

The technical information and suggestions for use made herein are based on Akzo Nobel Coatings Inc. research and experience and are believed to be reliable but such information and suggestions do not constitute a warranty.

Since Akzo Nobel Coatings Inc. has no control over the conditions under which the product is transported, stored, handled, used or applied, buyers must determine for themselves, by preliminary tests or otherwise, the suitability of the products for their purpose.

Akzo Nobel Coatings Inc.  
 5555 Spalding Drive  
 Norcross, GA 30092 USA  
 (404) 662-8484

Akzo Nobel Coatings Ltd.  
 110 Woodbine Downs Blvd. - Unit 4  
 Etobicoke, ON, Canada M9W 5S6  
 (416) 671-6633

## MATERIAL SAFETY DATA SHEET

## Grip Flex Spray Colors

AUG 03 1993

Date of Preparation: June, 1993

## Section I - Product Information

INDUSTRIAL

Manufacturer: Akzo Coatings Inc.  
5555 Spalding Drive  
Norcross, GA 30092

Emergency Telephone:  
Chemtrec: 800-424-9300  
Poindex: 303-832-3332  
Transport Class: UN1283  
Shipping Name: Paint

Product Class: Acrylic Coating  
Packing Group: III

Product Codes: 106,106T,110,157,180,281,285,310,311,311LF,315,325,325LF,326,326LF,346,357,383,403,431,470,480,500,523,525,535,535LF,583,584,585,585LF,595,595LF,613,632,633,641,642,700,720,838,900,933.

Colors with LF suffix are lead free versions of leaded colors.

## Section II - Hazardous Ingredients

Hazardous Ingredient All contain the following:	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD <sub>50</sub> Oral	LD <sub>50</sub> Derm	LC <sub>50</sub> Inhal.	LEL
Ethyl Acetate	1-5%	141-78-6	72.8	400ppm	400ppm	11300	n. av.	1600	2.2
N-butyl Alcohol(SARA313)	15.0%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Toluene(SARA313)(P65)	10.6%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Methyl Alcohol(SARA313)	1.5%	67-56-1	96.0	200ppm	200ppm	5628	20000	64000	1.1
Propylene Glycol Methyl Ether	5-20%	107-98-2	12.5	100ppm	100ppm	6052	12000	n. av.	1.6
Ethyl Alcohol	25-55%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
106,106T,110,157,&180 also contain:									
Titanium Dioxide	5-20%	13463-67-7	n. ap.	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n. ap.
311,325,326 also contain:									
Lead Chromate(SARA313)(P65)	13.5%	7758-97-6	n. ap.	.01mg/m <sup>3</sup>	n. av.	5000	n. av.	n. av.	n. ap.
535,585,595 also contain:									
Lead Molybdate/Chromate (SARA313)(P65)	4.5%	12656-85-8	n. ap.	.01mg/m <sup>3</sup>	n. av.	2000	n. av.	n. av.	n. ap.
383 also contains:									
Isopropyl Alcohol	1-5%	67-63-0	32.4	400ppm	400ppm	5840	13000	12000	2.0
Brass Powder	11.6%	000	n. ap.	n. av.	n. av.	n. av.	n. av.	n. av.	n. ap.
106,106T,157,&500 also contain:									
2-butoxyethanol(SARA313)	2.5%	111-76-2	0.6	25ppm	25ppm	1480	490	700	1.1
632,633,641,838 also contain:									
Aluminum Flake (SARA313)	3.5%	7429-90-5	n. ap.	10mg/m <sup>3</sup>	10mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n. ap.
Stoddard Solvent	1-5%	8052-41-3	2.0	100ppm	100ppm	n. av.	n. av.	n. av.	1.0
Xylene(SARA313)	1.1%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
900,933 also contain:									
Carbon Black	1-5%	1333-86-4	n. ap.	3.5mg/m <sup>3</sup>	3.5mg/m <sup>3</sup>	n. av.	n. av.	n. av.	n. ap.

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

## Section III - Physical Data

Evaporation Rate: Slower than ether  
Vapor Pressure: Heavier than air  
Boiling Range: 149-249F  
Weight per Gallon: 7.2-9.1  
Percent Volatile by Volume: 66-87

## Section IV - Fire or Explosion Hazard

Flash Point (SFCC): 41F  
Lower Explosive Limit: 1.2  
NFPA Flammability: 1B  
Extinguishing Media: Foam, carbon dioxide, dry chemicals.  
Unusual Fire and Explosion Hazards: Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.  
Special Fire Fighting Procedures: Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

## Section V - Reactivity Data

Stability: Stable under non-emergency conditions.  
Incompatibility (materials to avoid): Alkalis, acids, oxidizers.  
Hazardous Polymerization: Will not occur.  
Conditions to Avoid: Heat, flame, sparks.  
Hazardous Decomposition Products: Oxides of carbon, various hydrocarbons.

## Section VI - Toxicological Properties

Threshold Limit Value: None established for this product.  
For further information, see Section II - Hazardous Ingredients  
Cancer Risks: Hexavalent chromium from chromate compounds is listed by ACGIH as a confirmed human carcinogen (A1), NTP as a known carcinogen and IARC as being carcinogenic to humans (group 1). Lead from lead chromate is listed by ACGIH as a suspected human carcinogen (A2), and by IARC as possibly being carcinogenic to humans (group 1).  
Exposure Effects: Acute and Chronic  
Inhalation: Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung

damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.  
**Skin contact:** Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.  
**Eye contact:** Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.  
**Ingestion:** Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.  
**Other Health Effects:**  
 Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

**Section VII - Preventive Measures**

**Steps To Be Taken In Case Material Is Released Or Spilled:** Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.  
**Waste Disposal Method:** Dispose of in accordance with federal, state and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.  
**Respiratory Protection:** Adequate ventilation is required. In confined areas use NIOSH/MSHA approved airline respirator or hood. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. If using 311,325,326,535,585,595, be aware that these colors contain lead. Use NIOSH/MSHA approved respirator with HEPA Dust Cartridges for concentrations below 0.05mg/m<sup>3</sup> as Pb. For concentrations above 0.05 mg/m<sup>3</sup> as Pb, use full face respirator or air supplied respirator. See OSHA Standard 29 CFR Section 1910.1025. See safety equipment supplier for evaluation and recommendation. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.  
**Ventilation:** Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.  
**Protective Gloves:** Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.  
**Eye Protection:** Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.  
**Other Protective Equipment:** Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.  
**Hygienic Practices:** Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.  
**Precautions To Be Taken In Handling And Storing:** Store containers out of sun and away from heat, sparks, and open flames. Store plastic containers of flammable liquids inside closed, approved boxes or safety cabinets. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.  
**Other Precautions:** Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container, drum is not a pressure vessel. Avoid

breathing sanding dust. Do not weld or flame cut on empty drum.

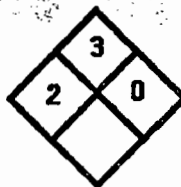
**Section VIII - First Aid Measures**

**Emergency and First Aid Procedures:**  
**Inhalation** - move to fresh air, give artificial respiration if necessary; skin contact - wash with soap and water, not solvent;  
**Eye contact** - flush with water for at least 15 minutes, consult a physician;  
**Ingestion** - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically  
**Medical Conditions Prone to Aggravation:** Pulmonary disorders, skin conditions.

**Section IX - Preparation Information**

Prepared by Akzo Coatings Car Refinish Technical Department.  
 Phone: 404-662-8464  
 Reference sources used in addition to raw material supplier MSDS information:  
 American Conference of Governmental Industrial Hygienists, 1992-1993 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH, 1992.  
 Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991.  
 U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.  
**DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.**

NFPA: 704



While Akzo Coatings Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Akzo Coatings Inc. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

① F / Y P / N R / N A A / Y C H / Y  
 ② 8.03 - 10.91 lbs / gal  
 ③ F 14  
 ④ Liquid Mixture



# MATERIAL SAFETY DATA SHEET

## Grip Flex Solvents

AUG 03 1993

Date of Preparation: June, 1993

Manufacturer: Akzo Coatings Inc.  
5555 Spalding Drive  
Norcross, GA 30092  
Shipping Name: Paint Related Material

Section I - Product Information  
Packing Group: II  
Product Code: See Section II  
Product Class: Solvent Blend

INDUSTRIAL HYGIENE

Emergency Telephone:  
Chemtrec: 800-424-9300  
Transport Class: UN1263  
Poindex: 303-832-3332

## Section II - Hazardous Ingredients

Hazardous Ingredient	% by weight	CAS No.	Vapor Press.	ACGIH TLV	OSHA PEL	LD <sub>50</sub> Oral	LD <sub>50</sub> Derm	LC <sub>50</sub> Inhal.	LEL
T2003 contains:									
2-butoxy Ethyl Acetate(SARA313)	9.5%	112-07-2	0.5	n. av.	n. av.	2400	1500	n. av.	0.8
Ethyl Acetate	1-5%	141-78-6	72.8	400ppm	400ppm	11300	n. av.	1600	2.2
Ethyl Alcohol	45-60%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
N-butyl Alcohol(SARA313)	18.8%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Toluene(SARA313)(P65)	16.0%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Xylene(SARA313)	3.0%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Methyl Alcohol(SARA313)	2.2%	67-56-1	96.0	200ppm	200ppm	5628	20000	64000	1.1
T2004 contains:									
Ethyl Acetate	1-5%	141-78-6	72.8	400ppm	400ppm	11300	n. av.	1600	2.2
Ethyl Alcohol	45-60%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
N-butyl Alcohol(SARA313)	25.3%	71-36-3	4.4	50ppm	50ppm	790	3400	8000	1.4
Toluene(SARA313)(P65)	16.3%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Xylene(SARA313)	3.4%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
Methyl Alcohol(SARA313)	2.3%	67-56-1	96.0	200ppm	200ppm	5628	20000	64000	1.1
T1003 contains:									
2-butoxyethanol(SARA313)	62.6%	111-76-2	0.6	25ppm	25ppm	1480	490	700	1.1
Stoddard Solvent	10-25%	8052-41-3	2.0	100ppm	100ppm	n. av.	n. av.	n. av.	1.0
DiethyleneGlycolButylEther(SARA313)	20.0%	112-34-5	0.1	n. av.	n. av.	6560	4120	n. av.	1.0
T1004 contains:									
2-butoxyethanol(SARA313)	11.7%	111-76-2	0.6	25ppm	25ppm	1480	490	700	1.1
DiethyleneGlycolButylEther(SARA313)	88.3%	112-34-5	0.1	n. av.	n. av.	6560	4120	n. av.	1.0
T1007 contains:									
2-butoxyethanol(SARA313)	80.5%	111-76-2	0.6	25ppm	25ppm	1480	490	700	1.1
V M & P Naphtha	10-25%	8032-32-4	38.0	300ppm	300ppm	n. av.	n. av.	1600	0.9
T4000 contains:									
Ethyl Alcohol	>85%	64-17-5	44.0	1000ppm	1000ppm	7060	20000	20000	3.3
Ethyl Acetate	1-5%	141-78-6	72.8	400ppm	400ppm	11300	n. av.	1600	2.2
Isopropyl Alcohol	5-20%	67-63-0	32.4	400ppm	400ppm	5840	13000	12000	2.0
Methyl Alcohol(SARA313)	4.0%	67-56-1	96.0	200ppm	200ppm	5628	20000	64000	1.1
T2001 contains:									
Aromatic Naphtha 100	1-5%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
Ethylbenzene(SARA313)	14.3%	100-41-4	10.0	100ppm	100ppm	3500	5000	4000	1.0
Toluene(SARA313)(P65)	19.9%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
Xylene(SARA313)	61.0%	1330-20-7	9.5	100ppm	100ppm	4300	14100	5000	1.5
T2002 contains:									
Aromatic Naphtha 100	>90%	64742-95-6	3.0	50ppm	500ppm	4700	n. av.	3670	0.9
Toluene(SARA313)(P65)	5.1%	108-88-3	22.0	50ppm	100ppm	5000	14000	4000	1.2
T3000 contains:									
2-butoxy Ethyl Acetate(SARA313)	15.8%	112-07-2	0.5	n. av.	n. av.	2400	1500	n. av.	0.8
PropyleneGlycolMethylEtherAcetate	25-40%	108-65-6	3.8	n. av.	n. av.	8532	5000	n. av.	1.5
N-butyl Acetate	50-65%	123-86-4	8.0	150ppm	150ppm	14000	n. av.	2000	1.7

## Further Information for Individual Products

Product/Code	Boiling Range	% Vol Volume	Weight per gal.	Flash Point	LEL	NFPA Flam.
PC & Ecology Spray Thinner T2003	147-367F	100	7.6	90F	0.8	IC
Fast PC & Ecology Spray Thinner T2004	147-284F	100	6.8	41F	1.0	IB
PC Retarder and Screen Thinner T1003	300-453F	94	7.5	121F	0.9	II
Super Retarder T1004	336-453F	100	7.9	154F	0.9	III A
Trouble Free T1007	200-401F	94	7.4	74F	0.9	IC
Remover for Polycarbonate T4000	147-180F	100	6.6	46F	2.0	IB
Fast Spray Thinner & Cleaner T2001	230-340F	100	7.3	59F	0.9	IB
Spray Thinner & Reducer T2002	230-344F	100	7.3	85F	0.9	IC
Vibrolite Spray Thinner T3000	147-284F	100	6.8	41F	1.0	IB

If an ingredient is marked as (SARA 313), it contains a chemical which is subject to the requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA). You may be required to submit this MSDS to state and local emergency response agencies (SERC & LEPC) and to your local fire department. Also, you may be affected by other sections of this law, depending on the chemicals and amounts that you inventory at your location. To learn more about your responsibilities, call the EPA Hotline (800) 535-0202. If an ingredient is marked with a (P65) this chemical is known to the state of California to cause cancer or reproductive toxicity.

### Section III - Physical Data

**Evaporation Rate:** Slower than ether

**Vapor Pressure:** Heavier than air

### Section IV - Fire or Explosion Hazard

**Extinguishing Media:** Foam, carbon dioxide, dry chemicals.

**Unusual Fire and Explosion Hazards:** Keep containers tightly closed, isolate from heat, electrical equipment, sparks and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions, overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

**Special Fire Fighting Procedures:** Water should be used to cool containers exposed to fire. Fire fighting personnel should wear self-contained breathing apparatus.

### Section V - Reactivity Data

**Stability:** Stable under non-emergency conditions.

**Incompatibility (materials to avoid):** Alkalis, oxidizers, alkali metals, water, amines, nitric acid, sodium hypochlorite, metal compounds.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** High temperatures, flame, sparks.

**Hazardous Decomposition Products:** Oxides of carbon, toxic fumes, various hydrocarbons.

### Section VI - Toxicological Properties

**Threshold Limit Value:** None established for this product. For further information, see Section II - Hazardous Ingredients

**Cancer Risks:** No ingredients in these products are known to NTP, IARC or OSHA to be carcinogenic.

**Exposure Effects:** Acute and Chronic

**Inhalation:** Nasal and respiratory irritation, dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, chemical pneumonitis, central nervous system depression and even asphyxiation. Delayed lung damage, kidney, liver, and cardiac disorders, red blood cell and leukocyte disorders which may result in anemia.

**Skin contact:** Extraction of natural oils with resulting dry skin, irritation, redness and dermatitis. Chronic sensitization to skin may occur.

**Eye contact:** Irritation, redness, pain, blurred vision, sensation of seeing halos around lights.

**Ingestion:** Gastrointestinal irritation, nausea, vomiting and diarrhea; kidney damage, blood system damage.

**Other Health Effects:**

intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

### Section VII - Preventive Measures

**Steps To Be Taken In Case Material Is Released Or Spilled:**

Remove all sources of ignition. Avoid breathing vapors, ventilate confined area. Dike to reduce extent of spill. Remove with inert absorbent using non-sparking tools. If necessary report to applicable government agency.

**Waste Disposal Method:** Dispose of in accordance with federal, provincial and local pollution requirements. In addition, rags, spray booth filters, paint suits, empty cans, etc., contaminated with product may be hazardous waste. Determine whether contaminated items are hazardous and dispose of as appropriate.

**Respiratory Protection:** Adequate ventilation is required. In confined areas use NIOSH/MSHA approved airline respirator or hood. If monitoring demonstrates levels below TLV or PEL wear a NIOSH/MSHA approved respirator device. In cases where no monitoring for airborne contaminants has been carried out, assume maximum exposure and use paint suit, goggles, gloves, and air supplied respiratory equipment.

See safety equipment supplier for evaluation and recommendation.

**Ventilation:** Provide sufficient ventilation to keep vapor concentration below the given TLV and/or PEL. For baking finishes, exhaust vapors emitted during heating. Remove decomposition products formed during welding or flame cutting of surfaces coated with this product.

**Protective Gloves:** Required for prolonged or repeated contact. Refer to safety equipment supplier for effective glove recommendations.

**Eye Protection:** Use safety goggles designed to protect against splash of liquids when spraying or when working with open liquids such as during mixing or pouring.

**Other Protective Equipment:** Eye bath and shower should be available. Use chemical resistant apron, boots or other clothing if needed to avoid repeated or frequent contact. Liquid may penetrate shoes and leather causing delayed irritation.

**Hygienic Practices:** Wash hands before eating, smoking, or using the washroom. Launder clothing before reuse.

**Precautions To Be Taken In Handling And Storing:** Store containers out of sun and away from heat, sparks, and open flames. Close all containers after each use. Consult NFPA and local codes for additional storage requirements.

**Other Precautions:** Use approved bonding and grounding procedures. Observe label precautions. Keep closures tight and container upright to prevent leakage. Never use pressure to empty container; drum is not a pressure vessel. Do not weld or flame cut on empty drum.

### Section VIII - First Aid Measures

**Emergency and First Aid Procedures:**

**Inhalation** - move to fresh air, give artificial respiration if necessary; skin contact - wash with soap and water, not solvent;

**Eye contact** - flush with water for at least 15 minutes, consult a physician;

**Ingestion** - drink one or two glasses of water to dilute. Do not induce vomiting. Consult a physician or poison control center immediately. Treat symptomatically

**Medical Conditions Prone to Aggravation:** Pulmonary conditions, skin disorders.

### Section IX - Preparation Information

Prepared by Akzo Coatings Car Refinish Technical Dept. Reference sources used in addition to raw material supplier: American Conference of Governmental Industrial Hygienists, 1992-1993 *Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices*, ACGIH, Cincinnati, OH 1992.

Lewis, Richard J. Sr., *Hazardous Chemicals Desk Reference*, Second Edition, Van Nostrand Reinhold, New York, 1991. U.S. Department of Health and Human Services, Centers for Disease Control, *NIOSH Pocket Guide to Chemical Hazards*, NIOSH, Cincinnati, OH, 1990.

**DO NOT HANDLE UNTIL THE MANUFACTURER'S SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. REGULATIONS REQUIRE THAT ALL EMPLOYEES BE TRAINED ON MATERIAL SAFETY DATA SHEETS FOR ALL PRODUCTS WITH WHICH THEY COME IN CONTACT.**

While Akzo Coatings Inc. believes that the data contained herein are accurate and derived from qualified sources, the data are not to be taken as a warranty or representation for which Akzo Coatings Inc. assumes legal responsibility. They are offered solely for your consideration, investigation and verification. Any use of these data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.



DuPont Automotive

## Adhesion Promoter 222S

### Description

222S is a ready-to-spray adhesion promoter for use over OEM clearcoat finishes.

### General Information

#### Components

222S - Adhesion Promoter



#### Mix Ratio/Viscosity

Ready-to-spray.



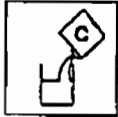
#### Pot Life

Indefinite.



#### Additives

Accelerator:	Not recommended.
Fish Eye Eliminator:	Not recommended.
Flex Additive:	Not recommended.
Reducer:	Not required.
Retarder:	Not required.



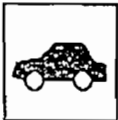
#### Tinting

Not recommended.



#### Topcoats

ChromaPremier™ Basecoat  
 ChromaPremier™ Single-Stage (optional)  
 ChromaBase®  
 ChromaOne® (optional)



### Application

#### Substrates

OEM finishes



#### Surface Preparation

- Sand with 1200 grit or finer.
- Remove sanding residue with Final Klean™ 3901S, Lacquer and Enamel Cleaner 3939S or Low VOC Final Klean™ 3909S.
- Tack area free of any dust or dirt particles.



## ChromaSystem™ Technical Manual

### Adhesion Promoter 222S



#### Gun Setups\*

##### Conventional

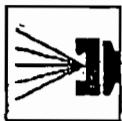
Siphon Feed: 1.5 mm - 1.7 mm (.059" - .067")

Gravity Feed: 1.4 mm - 1.6 mm (.055" - .063")

##### HVLP

Siphon Feed: 1.5 mm - 1.7 mm (.059" - .067")

Gravity Feed: 1.3 mm - 1.5 mm (.051" - .059")



#### Air Pressure\*

##### Conventional

Siphon Feed: 30 - 35 psi @ the gun.

Gravity Feed: 25 - 30 psi @ the gun.

##### HVLP

6 - 8 psi @ the gun cap.

\*The listed setups cover the usual range for various application equipment. For information on specific manufacturers' equipment, see the Appendix section titled "Equipment Information."



#### Application

Apply 1 medium coat beyond the entire repair area. (See Blending Procedure in the Systems & Procedures section.)



#### Flash/Dry Times

##### Air Dry

Time to Topcoat: 5 - 10 minutes @ 70°F.



#### Recoatability/Re-repair

222S may be recoated at any stage.

#### Tips for Success

If 222S dries for more than 2 hours, tack and reapply 1 coat of 222S.



#### Cleanup

Clean spray equipment as soon as possible with DuPont Lacquer Thinner.

#### Physical Properties

VOC: 6.6 lbs/gal ready-to-spray.

Flash Point: See MSDS.

#### VOC Regulated Areas

These directions refer to the use of products which may be restricted or require special mixing instructions in VOC regulated areas. Follow mixing and usage recommendations in the VOC Compliant Products Chart for your area.

#### Safety and Handling

Before using any DuPont product, be sure to read all safety directions and warnings. WEAR A PROPERLY FITTED VAPOR/PARTICULATE RESPIRATOR approved by NIOSH for use with paints (TC-23C), eye protection, gloves and protective clothing during application and until all vapors and spray mists are exhausted. In confined spaces, or in situations where continuous spray operations are typical, or if proper respirator fit is not possible, wear a positive pressure, supplied-air respirator (NIOSH TC-19C). In all cases, follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. This product is intended for industrial use only by professional, trained painters.

REFINISH SALES  
JANUARY 1, 1998

HAZARDOUS SAFETY DATA SHEET



# SPECIALTY CLEARS

## Section I - Manufacturer

### Manufacturer:

DuPont Co.  
Automotive  
Wilmington, Delaware 19888

### Telephone:

Product information (800)441-7515  
Medical emergency (800) 441-3637  
Transportation emergency (800) 424-9300 (CHEMTREC)

Product: Specialty clears: (222S, 380S, 480S, 980S, 1775S, 1780S, 1782S, 3700S, 3705S, 3710S, 3789S, 9600S, 9601S)  
OSHA Hazard Class: Flammable liquid  
DOT Shipping Name: Paint, UN1263; Paint Related Materials, UN1263

Hazardous Materials Information: See Section X.

## Section II - Hazardous Ingredients

(See Section X)

Ingredients	CAS No.	Vapor Pressure (20°C, mm Hg)	Exposure Limits*
Acetone	67-64-1	184.0	500 ppm-A 8 hr TWA 750 ppm-A 15 min (STEL) 1000 ppm-O 8 hr TWA
Acrylic polymer A	8011-14-7	None	None-A,O
Acrylic polymer B	25133-87-5	None	None-A,O
Acrylic polymer C	68215-54-9	None	None-A,O
Acrylic polymer D	74082-30-7	None	None-A,O
Acrylic polymer E	Not Available	None	None-A,O
Acrylic polymer F	Not Available	None	None-A,O
Acrylic polymer G	25852-37-3	None	None-A,O
Acrylic polymer H	Not Available	None	None-A,O
Acrylic polymer I	Not Available	None	None-A,O
Acrylic polymer J	Not Available	None	None-A,O
Aliphatic polyamine	Not Available	Unknown	None-A,O
Aromatic hydrocarbon	64742-95-6	10 @ 25°C	None-A,O
Beta-(3-(2H-benzotriazole-2-yl)-4-hydroxy-5-tert-butylphenyl) propionate	104810-47-1	Unknown	None-A,O
Bis(1-(2,2,6,6-tetramethyl-4-piperidinyl) sebacate	41556-26-7	6.0	None-A,O
Blocked diamine	Not Available	.4	None-A,O
Butyl acetate	123-96-4	8.0	150 ppm-A,O 200 ppm-A 15 min (STEL)
Butyl benzyl phthalate	85-68-7	0.8	5.0 mg/m <sup>3</sup> -D None-A,O
Cellulose acetate butyrate	9004-36-8	None	None-A,O
Diethylene glycol monobutyl ether	112-34-5	0.1	5 ppm-D None-A,O
Diethyl phthalate	84-68-2	1.0	5 mg/m <sup>3</sup> -A,O

Disobutyl ketone	108-83-8	1.7	25 ppm-A 50 ppm-O
Ethyl acetate	141-78-6	76.0	400 ppm-A,O
Ethylbenzene	100-41-4	7.0	100 ppm-A,O 125 ppm-A 15 min (STEL)
Ethyl 3-ethoxy propionate	763-69-9	Unknown	None-A,O
Ethylene glycol monobutyl ether acetate	112-07-2	0.3	20 ppm-D Skin None-A,O
Heptane	142-82-5	40.0	400 ppm-A 500 ppm-O 500 ppm-A 15 min (STEL)
Hexyl acetate isomers	88230-35-7	0.7	50 ppm-A None-O
Isopropyl alcohol	67-63-0	33.0	400 ppm-A,O 500 ppm-A 15 min (STEL) 400 ppm-D 8&12 hr
Methyl amyl ketone	110-43-0	2.2	50 ppm-A 100 ppm-O
Methyl ethyl ketone	78-93-3	71.0	200 ppm-A,O 300 ppm-A 15 min (STEL) 200 ppm-D 8&12 hr TWA 300 ppm-D 15 min TWA
Methyl isoamyl ketone	110-12-3	4.5	50 ppm-A None-O
Methyl isobutyl ketone	109-10-1	15.0	50 ppm-A 100 ppm-O 75 ppm-A 15 min (STEL)
Mixed dibasic esters	Not Available	0.2	10 mg/m <sup>3</sup> -D None-A,O
n-butyl alcohol	71-36-3	5.5	50 ppm-A, C Skin 100 ppm-O 25 ppm-D 50 ppm-D 15 min TWA
Oxo-octyl acetate	108419-32-5	1.0	50 ppm-S None-A,O
Petroleum naphtha	64742-88-8	50.0	300 ppm-A,O 400 ppm-A,O 15 min (STEL) 100 ppm-D
Polyester resin	65088-73-9	None	None-A,O
Primary amyl acetate	628-63-7	4.0	100 ppm-A,O
Propionic acid, n-butyl ester	590-01-2	5.4	None-A,O
Propylene glycol methyl ether	107-98-2	10.9	100 ppm-A None-O 150 ppm-A 15 min (STEL)
Propylene glycol monomethyl ether acetate	108-65-6	3.7	None-A,O 10 ppm-D
Substituted benzotriazole	127519-17-9	9.0	None-A,O
Toluene	108-88-3	36.7	50 ppm-A Skin 200 ppm-O 300 ppm-O Ceiling 500 ppm-O 10 min MAX 50 ppm-D 8&12 hr TWA
Trimer of hexamethylene diisocyanate	3779-63-3	None	1.0ug/m <sup>3</sup> -S 15 min (STEL)

Chemical Name	Product Code	Concentration	Exposure Limit
Water			0.5 ug/m <sup>3</sup> -S None-A,O
Xylene	7732-18-5	23.6	None-A,O
	1330-20-7	7.0	100 ppm-A,O 150 ppm-A 15 min(STEL) 100 ppm-D 8&12 hr 150 ppm-D 15 min TWA
1-Methylimidazole	616-47-7	0.4	None-A,O
1,2,4-Trimethyl benzene	95-63-6	7.0	25 ppm-A,O
1,6-Hexamethylene diisocyanate	822-06-0	Unknown	5 ppb -A None-O
2(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole	822-06-0	Unknown	None-A,O

A = ACGIH TLV; O = OSHA; D = DuPont internal limit; S = Supplier  
Furnished limit; STEL = Short Term Exposure Limit; C = Ceiling.

### Section III - Physical Data

Evaporation rate: Less than ether  
Vapor Density: Heavier than air  
Solubility in water: Miscible  
Percent volatile by volume: 6.4% - 100%  
Percent volatile by weight: 4.8% - 100%  
Boiling range: 54°C - 90°C/129°F - 165°F  
Gallon weight: 6.70 - 8.43 lbs/gallon

### Section IV - Fire and Explosion Data

Flash point (closed cup): See Section X for exact values.  
Flammable limits: 0.2%-16.0%  
Extinguishing media: Universal aqueous film-forming foam, carbon dioxide, dry chemical.  
Special fire fighting procedures: Full protective equipment, including self-contained breathing apparatus, is recommended.  
Water from fog nozzles may be used to cool closed containers to prevent pressure build up.  
Unusual fire & explosion hazards: When heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

### Section V - Health Hazard Data

#### General Effects:

Ingestion: Gastrointestinal distress. In the unlikely event of ingestion, call a physician immediately and have the names of ingredients available. **DO NOT INDUCE VOMITING.**  
Inhalation: May cause nose and throat irritation. Repeated and prolonged overexposure to solvents may lead to permanent brain and nervous system damage. Eye watering, headaches, nausea, dizziness and loss of coordination are signs that solvent levels are too high. If affected by inhalation of vapor or spray mist, remove to fresh air. If breathing difficulty persists, or occurs later, consult a physician.  
Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash with soap and water. If irritation occurs, contact a physician.  
Specific Effects:

Acrylic polymer F Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Acrylic polymer I Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision. Aromatic hydrocarbon Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate Repeated exposure may cause allergic skin rash, itching, swelling. Butyl acetate May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

Butyl benzyl phthalate Extremely high oral doses have caused tissue changes in the liver and testes of laboratory animals. Extremely high vapor aerosol doses have caused atrophy of the spleen and reproductive organs. Mice and rats were fed diets containing 0.6% and 1.2% of butyl benzyl phthalate. At the highest dose leukemias of the blood forming system were seen in female rats. No leukemia effect was seen in the female rats fed the lower level or in any of the mice. Diethyl phthalate May cause eye irritation with discomfort, tearing, or blurred vision. Diethylene glycol monobutyl ether Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive. Diisobutyl ketone Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count. Repeated exposure may cause allergic skin rash, itching, swelling. Ethyl acetate Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs. Ethylbenzene Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects. Has shown mutagenic activity in laboratory cell culture tests. Tests in some laboratory animals demonstrate carcinogenic activity. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Ethyl 3-ethoxy propionate Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother. Ethylene glycol monobutyl ether acetate Can be absorbed through the skin in harmful amounts. May destroy red blood cells May cause abnormal kidney function. Heptane Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Isopropyl alcohol ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Methyl amyl ketone Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights. Methyl ethyl ketone High concentrations have caused embryotoxic effects in laboratory animals. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy. Liquid splashes in the eye may result in chemical burns. Methyl isoamyl ketone Extremely high oral doses in laboratory animals have shown weight changes in various organs such as the liver, kidney and adrenal gland. In addition liver injury was observed. Methyl isobutyl ketone Recurrent overexposure may result in liver and kidney injury. Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. Mibred dibasic esters High airborne levels in rats have shown mild injury to olfactory region of the nose. N-butyl alcohol Liquid splashes in the eye may result in chemical burns. May cause abnormal blood forming function with anemia. Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Petroleum naphtha Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors. Primary amyl acetate Recurrent overexposure may result in liver and kidney injury. Propylene glycol methyl ether Overexposure may lead to kidney, liver and lung damage. Individuals with preexisting diseases of the liver may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. Propylene glycol monomethyl ether acetate May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. Toluene Recurrent

overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm. Chromosomal changes in the circulating blood of exposed work been reported. The significance of these reports is unclear of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Trimer of hexamethylene diisocyanate. Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **Xylene** Recurrent overexposure may result in liver and kidney injury. Can be absorbed through the skin in harmful amounts. Individuals with pre-existing disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. **1,6-Hexamethylene diisocyanate** May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Prolonged skin contact may cause chemical burns. Liquid splashes in the eye may result in chemical burns. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures. **2-(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole** Contact may cause skin irritation with discomfort or rash. May cause eye irritation with discomfort, tearing, or blurred vision.

## Section VI - Reactivity Data

**Stability:** Stable

**Incompatibility (materials to avoid):** None reasonably foreseeable.

**Hazardous decomposition products:** CO, CO<sub>2</sub>, smoke.

**Hazardous polymerization:** Will not occur.

## Section VII - Spill or Leak Procedures

Steps to be taken in case material is released or spilled: Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Wear a properly fitted vapor/particulate respirator NIOSH approved (TC-23C). Confine and remove with inert absorbent.

If the material contains or is mixed with an isocyanate activator/hardener, wear a continuous flow supplied air respirator (NIOSH approved TC-19C) and pour liquid decontaminant solution over the spill and allow to sit 10 minutes minimum. Typical decontamination for isocyanate containing solutions are:

20% Surfactant (Tergitol TMN 10)  
80% Water

or  
0-10% Ammonia  
2-5% Detergent  
Balance water

Pressure can be generated. **Do not** seal container. After 48 hours, material may be sealed and disposed of. Confine and remove with inert absorbent.

**Waste disposal method:** Do not allow material to contaminate ground water systems. Incinerate absorbed material in accordance with federal, state, and local requirements. Do not incinerate in closed containers.

## Section VIII - Special Protection Information

**Respiratory:** Do not breathe vapors or mists. When these products are used with paints requiring isocyanate hardener or activator, wear a continuous flow supplied air respirator NIOSH approved (TC-19C) when mixing hardener/activator with the paint,

during application and until all vapor and spray mist are exhausted. Do not permit anyone without respiratory protection in the painting area. Refer to the hardener/activator label instructions and MSDS for further information. If these products are used without an isocyanate hardener/activator, a properly fitted (NIOSH approved (TC-23C) paint spray respirator can be used.

**Ventilation:** Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

**Protective clothing:** Neoprene gloves and coveralls are recommended.

**Eye protection:** Desirable in all industrial situations. Include splash guards or side shields.

## Section IX - Special Precautions

**Precautions to be taken in handling and storing:** Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120°F.

**Other precautions:** Do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

## Section X - Other Information

**Section 313 Supplier Notification:** The chemicals listed below with percentages are subject to the reporting requirements of Section 313 of the Emergency Planning and Right-To-Know Act of 1986 and of 40 CFR 372.

### PRODUCT CODE

### INGREDIENTS (See Section II)

**1775S** acrylic polymer-C, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, diethyl phthalate (1%), ethylbenzene (0-2%), methyl ethyl ketone (1%), polyester resin, xylene (5-6%), 1-methylimidazole, 2-(2'-hydroxy-3,5'-diteramylphenyl)benzotriazole  
GAL WT: 7.85 WT PCT SOLIDS: 38.15 VOL PCT SOLIDS: 31.41  
SOLVENT DENSITY: 7.31 VOC LE: 6.0 VOCAP: 6.0 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**1780S** acrylic polymer-D, ethyl 3-ethoxy propionate, ethylbenzene (0-2%), methyl ethyl ketone (3%), methyl isobutyl ketone, propionic acid n-butyl ester, propylene glycol monomethyl ether acetate, xylene (6-7%)  
GAL WT: 6.37 WT PCT SOLIDS: 53.13 VOL PCT SOLIDS: 47.03  
SOLVENT DENSITY: 7.41 VOC LE: 3.9 VOCAP: 3.9 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**1782S** acrylic polymer-H, butyl acetate, diisobutyl ketone, ethyl acetate, methyl isobutyl ketone, methyl isobutyl ketone (10%), polyester resin, propylene glycol monomethyl ether acetate, toluene (2%)  
GAL WT: 7.94 WT PCT SOLIDS: 40.95 VOL PCT SOLIDS: 33.80  
SOLVENT DENSITY: 7.08 VOC LE: 4.7 VOCAP: 4.7 H: 1 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**222S** acetone, acrylic polymer-B, ethyl acetate, ethylbenzene (1-4%), isopropyl alcohol, mixed dibasic esters, n-butyl alcohol (7%), petroleum naphtha, toluene (3-4%), xylene (12-15%)  
GAL WT: 7.06 WT PCT SOLIDS: 5.78 VOL PCT SOLIDS: 4.09  
SOLVENT DENSITY: 6.84 VOC LE: 6.7 VOCAP: 5.4 H: 2 F: 3  
R: 0 FLASH PT: BELOW 20 F (CC) OSHA STORAGE: IB

**3700S** acrylic polymer-F, bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, diethylene glycol monobutyl ether (5%), ethyl acetate, ethylbenzene (0-2%), hexyl acetate isomers, methyl ethyl ketone (7%), methyl isobutyl ketone (7%), oxo-octyl acetate, propionic acid, n-butyl ester, propylene glycol methyl ether, propylene glycol monomethyl ether acetate, substituted benzotriazole, xylene (7-9%)  
GAL WT: 7.75 WT PCT SOLIDS: 34.40 VOL PCT SOLIDS: 30.00  
SOLVENT DENSITY: 7.26 VOC LE: 5.1 VOCAP: 5.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

**3705S** butyl acetate, trimer of hexamethylene diisocyanate, 1,6-hexamethylene diisocyanate (<0.5%),  
GAL WT: 8.43 WT PCT SOLIDS: 85.01 VOL PCT SOLIDS: 89.59  
SOLVENT DENSITY: 7.34 VOC LE: 0.5 VOCAP: 0.5 H: 3 F: 1  
R: 1 FLASH PT: BETWEEN 73 - 100 F (CC) OSHA STORAGE: IC

**3710S** aliphatic polyamine (36%), blocked diamine (55%), ethylbenzene (0-2%), xylene (6-8%),  
GAL WT: 7.10 WT PCT SOLIDS: 91.32 VOL PCT SOLIDS: 91.44

SOLVENT DENSITY: 7.20 VOC LE: 0.6 VOC AP: 0.6 H: 3 F: 3 R:  
1 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

3789S acetone, isopropyl alcohol, water.

GAL WT: 6.70 WT PCT SOLIDS: 0.80 VOL PCT SOLIDS: 0.51  
SOLVENT DENSITY: 6.88 VOC LE: 6.5 VOC AP: 5.3 H: 2 F: 3 R:  
0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

380S acetone, acrylic polymer-A, acrylic polymer-G, butyl benzyl  
phthalate, cellulose acetate butyrate, ethyl benzene (0-1%),  
isopropyl alcohol, methyl ethyl ketone (8%), mixed dibasic esters,  
propylene glycol monomethyl ether acetate, toluene (19%), xylene  
(2-5%)

GAL WT: 7.81 WT PCT SOLIDS: 33.40 VOL PCT SOLIDS: 28.69  
SOLVENT DENSITY: 7.10 VOC LE: 4.7 VOC AP: 3.5 H: 2 F: 3 R:  
0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

480S acetone, acrylic polymer-A, acrylic polymer-G, butyl benzyl  
phthalate, cellulose acetate butyrate, heptane, isopropyl alcohol,  
methyl ethyl ketone (3%), methyl isoamyl ketone, n-butyl alcohol  
(4%), propylene glycol monomethyl ether acetate, toluene (8%),  
xylene (0-1%)

GAL WT: 7.01 WT PCT SOLIDS: 14.81 VOL PCT SOLIDS: 10.62  
SOLVENT DENSITY: 6.88 VOC LE: 5.8 VOC AP: 4.5 H: 2 F: 3 R:  
0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

9800S acrylic polymer-E, acrylic polymer-F, acrylic polymer-I,  
aromatic hydrocarbon, beta-(3-(2H-benzotriazol-2-yl)-4-hydroxy-5-  
tert. bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate,  
ethylbenzene (0-1%), hexyl acetate isomers, methyl amyl ketone,  
methyl ethyl ketone (7%), xylene (4-6%), 1,2,4-trimethyl benzene  
(0-1%)

GAL WT: 7.82 WT PCT SOLIDS: 51.70 VOL PCT SOLIDS: 45.27  
SOLVENT DENSITY: 6.90 VOC LE: 3.8 VOC AP: 3.8 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

9901S butyl acetate, ethyl acetate, ethylbenzene (1-3%),  
ethylene glycol monobutyl ether acetate (3%), primary amyl acetate,  
propylene glycol monomethyl ether acetate, toluene (20%), xylene  
(10-12%)

GAL WT: 7.48 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00  
SOLVENT DENSITY: 7.48 VOC LE: 7.5 VOC AP: 7.5 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

990S acrylic polymer-I, butyl acetate, ethyl acetate, ethylbenzene  
(8-9%), methyl isobutyl ketone (3%), propylene glycol monomethyl  
ether acetate, toluene (1%), xylene (25-26%)

GAL WT: 7.96 WT PCT SOLIDS: 35.97 VOL PCT SOLIDS: 30.72  
SOLVENT DENSITY: 7.38 VOC LE: 5.1 VOC AP: 5.1 H: 2 F: 3  
R: 0 FLASH PT: BETWEEN 20 - 73 F (CC) OSHA STORAGE: IB

Notice: The data in this material safety data sheet relate only to the  
specific material designated herein and do not relate to use in  
combination with any other material or in any process.

**Product Manager - Refinish Sales**

Prepared by D. G. Detweiler



DIRECT TO METAL



Post #	Date	# of pages
Fax Note	8-5-98	4
To	Belton Plastics	
Fax#	817-751-2217	
From	K. P. M. Co.	
Phone#	800-955-1747	

**510**  
**SELF-PRIMING**  
**MODIFIED URETHANE**  
**ENAMEL**

Product Data Sheet -

<b>GENERAL PROPERTIES</b>	Versatile Gavlon 510 prepares, primes, top coats, and protects in one step. This enamel has excellent weathering, flexibility and fume resistant properties. 510 can be applied over a trace oil film, water and rusted surfaces without priming.	
<b>GENERIC TYPE</b>	A modified urethane enamel designed primarily for spray applications.	
<b>SPECIFICATION DATA</b>	Gloss, 60° specular	: 85-90%
	Theoretical coverage: mil ft. per gallon	: 481
	Drying time, 75°F,	
	Touch	: 15 min.
	Recoat	: 30 min.
	Handle	: 1 hour
	Solids content, by volume	: 30% ±1%
	Weight per gallon, lbs.	: 8.3 ±3
	Flash Point, P.M.C.C.,	
	OSHA Class 1B	: 73°F
	Recommended film thickness per coat, mils	: 2-4 Dry
<b>FINISHES AND COLORS</b>	510 is a high gloss enamel available in standard as well as custom colors. 510 is packaged in 1, 5, 55 gallon, and 13 oz. aerosol cans.	
<b>TEMPERATURE LIMIT (Dry)</b>	Continuous 200°F; Intermittent 250°F	
<b>MIXING</b>	Care should be taken to completely redisperse all of the pigment that may have settled to the bottom of the container. Power mix for 3-5 minutes or until completely dispersed.	
<b>THINNING &amp; CLEAN UP</b>	Thinning — Conventional spraying: 1 pint Gavlon 5130 thinner to 1 gallon paint. Airless spraying 1/2 pint 5130 to 1 gallon paint. Electrostatic spraying 1 pint 5130-ES to 1 gallon paint. To retard drying use up to 8 ozs. of Gavlon 0700 Retarder per gallon of paint. Clean up with Gavlon 5130-Thinner or a lacquer thinner.	
<b>SPRAY EQUIPMENT</b>	Conventional spraying-DeVilbiss MBC 510 or JGA gun with FX fluid tip and 704, 765 or 58 air cap. Airless spraying should be a low ratio (24:1) pump; 510 can be atomized as low as 1500 PSI at the gun. The DeVilbiss JCB510-31, with .009-.011 spray tip (5° to 50° angle) is recommended.	
<b>FOOD PROCESSING</b>	Gavlon 510 is chemically acceptable by USDA for application to surfaces where there is a possibility of incidental food contact. This applies only to the colors white, black, green and gray (Non Lead).	
<b>CHEMICAL RESISTANCE RESULTS</b>		
<b>EXPOSURE</b>	<b>MILD FUMES: WEATHERING</b>	<b>HEAVY FUMES: SPLASH &amp; SPILLAGE</b>
ACID	R	R
ALKALINE	NR	NR
SALTS	R	R
DETERGENTS	R	R
WATER	R	R
	R—Recommended	NR—Not Recommended

**SURFACE PREPARATION AND APPLICATION CONDITIONS (Gen.) FOR 510**

All surfaces should be free, as much as possible of: oil, grease, moisture and loose rust; remove all scaling rust mechanically. Spraying is the best application method for 510. For general use, no priming is required.

**STEEL:** Clean as above, check previous coatings for softness or poor bonding — remove all loose or poorly bonded coatings.

**ALUMINUM AND GALVANIZED:** All surfaces shall be clean, dry and free from oil, grease and other contaminants. Detergent wash and water rinse to remove water soluble dirt; solvent clean to remove all grease and oil. Oxidation on weathered surfaces shall be mechanically removed or acid etched prior to application. Consult Gavlon for specific recommendations.

Temperature can be 40°F-110°F. Do not use over inorganic zinc.

**Dry film thickness**

Primer: None required	
Finish: 510	2-4 mils
Primer: 9106 Vinyl Wash	0.5 mils
Finish: 510B; designed for use over 9106	2-4 mils

**WARNING!**  
**FLAMMABLE-VAPOR HARMFUL**  
**CAUSES EYE IRRITATION**  
**ABSORPTION THROUGH SKIN MAY BE HARMFUL**  
**CONTAINS ISOBUTYL ACETATE, GLYCOL ETHER SOLVENTS AND TOLUENE**

Keep away from heat, sparks and flame. Avoid breathing of vapor or spray mist. Avoid contact with eyes and skin. Do not take internally. Do not use on toys, furniture or surfaces or other articles which might be chewed by children. Wash hands thoroughly after using and before smoking or eating.

Use only with adequate ventilation.

Keep closures tight and upright to prevent leakage. Keep container closed when not in use. In case of spillage, absorb and dispose of in accordance with local applicable regulations.

**FIRST AID:** In case of skin contact, wash thoroughly with soap and water; for eyes, flush immediately with plenty of water for 15 minutes and call a physician. Remove and wash contaminated clothing before reuse. (Discard contaminated shoes.) If affected by inhalation of vapor, remove to fresh air. If swallowed, CALL A PHYSICIAN IMMEDIATELY. DO NOT induce vomiting.

**FOR INDUSTRIAL USE ONLY**

**GUARANTEE:** All information and directions contained in this bulletin are intended for use by persons having practical painting skills and experience. Since Gavlon Industries, Inc. has no control over storage, handling, use or application of products listed, it must disclaim responsibility for any unsatisfactory results obtained, injury or indirect or consequential damages of any nature whatsoever, however caused.

Gavlon Industries, Inc. guarantees that each product listed conforms to its standard quality. However, our only obligation shall be to replace such quantity of product proved to be defective. No guarantee can be undertaken for individual cases.

**MATERIAL SAFETY DATA SHEET**  
**FOR COATINGS, RESINS AND RELATED MATERIALS**  
**(NFPA 1-84)**

HMIS RATINGS	
HEALTH	3
FLAMMABILITY	3
REACTIVITY	0
PERSONAL PROTECTIVE EQUIPMENT	X

**Section I—PRODUCT IDENTIFICATION**

MANUFACTURER: **GAVLON INDUSTRIES, INC.**  
 9808 South I-35 P. O. Box 17307  
 Austin, Texas 78745 Austin, Texas 78760

EMERGENCY TELEPHONE NUMBER: (713) 466-3866  
 INFORMATION TELEPHONE NUMBER: (512) 282-1115

PRODUCT CLASS: Urethane Alkyd Enamel MANUFACTURER'S  
 CODE IDENTIFICATION: 510  
 DATE OF PREPARATION: 2-23-90 TRADE NAME: GAVLON 510 Enamel  
 Any Color

**Section II—HAZARDOUS INGREDIENTS**

INGREDIENT	CAS NO.	PERCENT BY WEIGHT	OCCUPATIONAL EXPOSURE LIMITS		VAPOR PRESSURE (mm. Hg)
			TLV	PEL	
			ACGIH	OSHA	
VM&F Naphtha	64742-89-8	17	300 ppm	500 ppm	45@25°C.
n-Butanol	71-36-3	7	50	100	5.5@20°C.
Toluene	108-88-3	1	100	200	54@25°C.
Isopropanol	67-63-0	8	400	400	32.8@20°C.
2-Butoxyethanol	111-76-2	3	25	50	0.6@20°C.
Isobutyl Acetate	110-19-0	13	150	150	13@20°C.
Propylene Glycol	108-65-6	2	NA	NA	3.7@20°C.
Monomethyl Ether Acetate					
Methyl Ethyl Ketone	78-93-3	1	200	200	78@20°C.

**Section III—PHYSICAL DATA**

BOILING RANGE: 175-340°F. VAPOR DENSITY: Heavier than air  
 Appearance & odor: White liquid; characteristic non-residual odor.  
 EVAPORATION RATE: Slower than Ether % VOLATILE VOLUME: 68 WT/GAL: 7.8 - 9.9

**Section IV—FIRE AND EXPLOSION HAZARD DATA**

FLAMMABILITY CLASSIFICATION: OSHA IB FLASH POINT: 78°F. (TCC)  
 DOT Flammable Liquid LEL: 1.0

EXTINGUISHING MEDIA: Use National Fire Protection Association Class B Extinguishers (CO<sub>2</sub>, dry chemical or foam) for NFPA Class B fires.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flames. Closed containers may explode when exposed to extreme heat. Do not apply to surfaces that are above 140°F.

SPECIAL FIREFIGHTING PROCEDURES: Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable. Full protective equipment including self-contained breathing apparatus is needed to protect fire fighters from exposure.

### Section V—HEALTH HAZARD DATA

**EFFECTS OF OVEREXPOSURE:** Acute inhalation—anaesthetic; irritation of the respiratory tract or acute nervous system, depression, headache, dizziness, staggering gait or coma. Skin or eye contact—irritation. Chronic inhalation—lethargy, narcosis; lung, liver and kidney damage. Ingestion may result in vomiting. May be harmful or fatal if swallowed.

**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** Preexisting eye, skin, respiratory and medical disorders may be aggravated.

**PRIMARY ROUTE(S) OF ENTRY:**  DERMAL  INHALATION  INGESTION

#### EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:	Remove to fresh air. Restore breathing.
Splash (eyes):	Flush immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment.
Splash (skin):	Wash affected areas with soap and water. Remove contaminated clothing.
Ingestion:	Drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center immediately. (1-800-392-8549)

### Section VI—REACTIVITY DATA

**STABILITY:**  UNSTABLE  STABLE

**HAZARDOUS POLYMERIZATION**  MAY OCCUR  WILL NOT OCCUR

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO<sub>2</sub> and Nitrogen Oxides; Carbon Monoxide.

**CONDITIONS TO AVOID:** Heat, sparks and flame.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Oxidizing agents such as nitric acid.

### Section VII—SPILL OR LEAK PROCEDURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Absorb and place in sealable containers.

**WASTE DISPOSAL:** Disposal must be accomplished in compliance with local, state and federal regulations.

### Section VIII—SAFE HANDLING AND USE INFORMATION

**RESPIRATORY PROTECTION:** In outdoor or open areas use approved mechanical-filter respirator to remove solid air borne particles of overspray during spray application. In restricted ventilation areas use approved chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas, use approved air line type of respirators or hoods.

**VENTILATION:** Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of most hazardous ingredient in SECTION II below acceptable limit, LEL in SECTION IV below state limit, and to remove decomposition products during welding or flame cutting surfaces coated with this product.

**PROTECTIVE GLOVES:** Neoprene or rubber gloves required for prolonged or repeated contact.

**EYE PROTECTION:** Safety eyewear including splash guards.

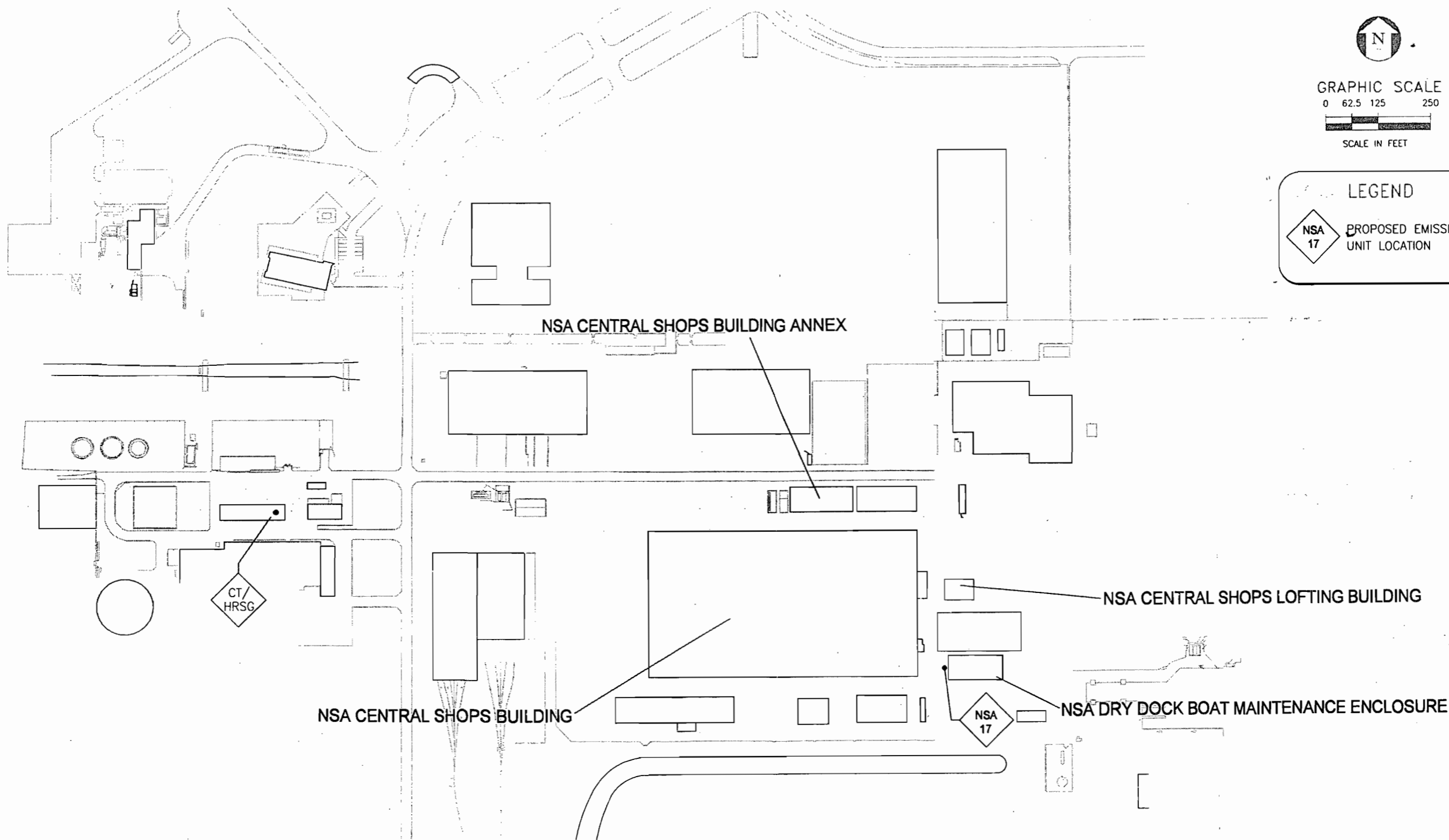
**OTHER PROTECTIVE EQUIPMENT:** Outerwear to protect against clothing contamination and skin contact.

**HYGIENIC PRACTICES:** Wash hands before eating, drinking or using tobacco products.

### Section IX—SPECIAL PRECAUTIONS

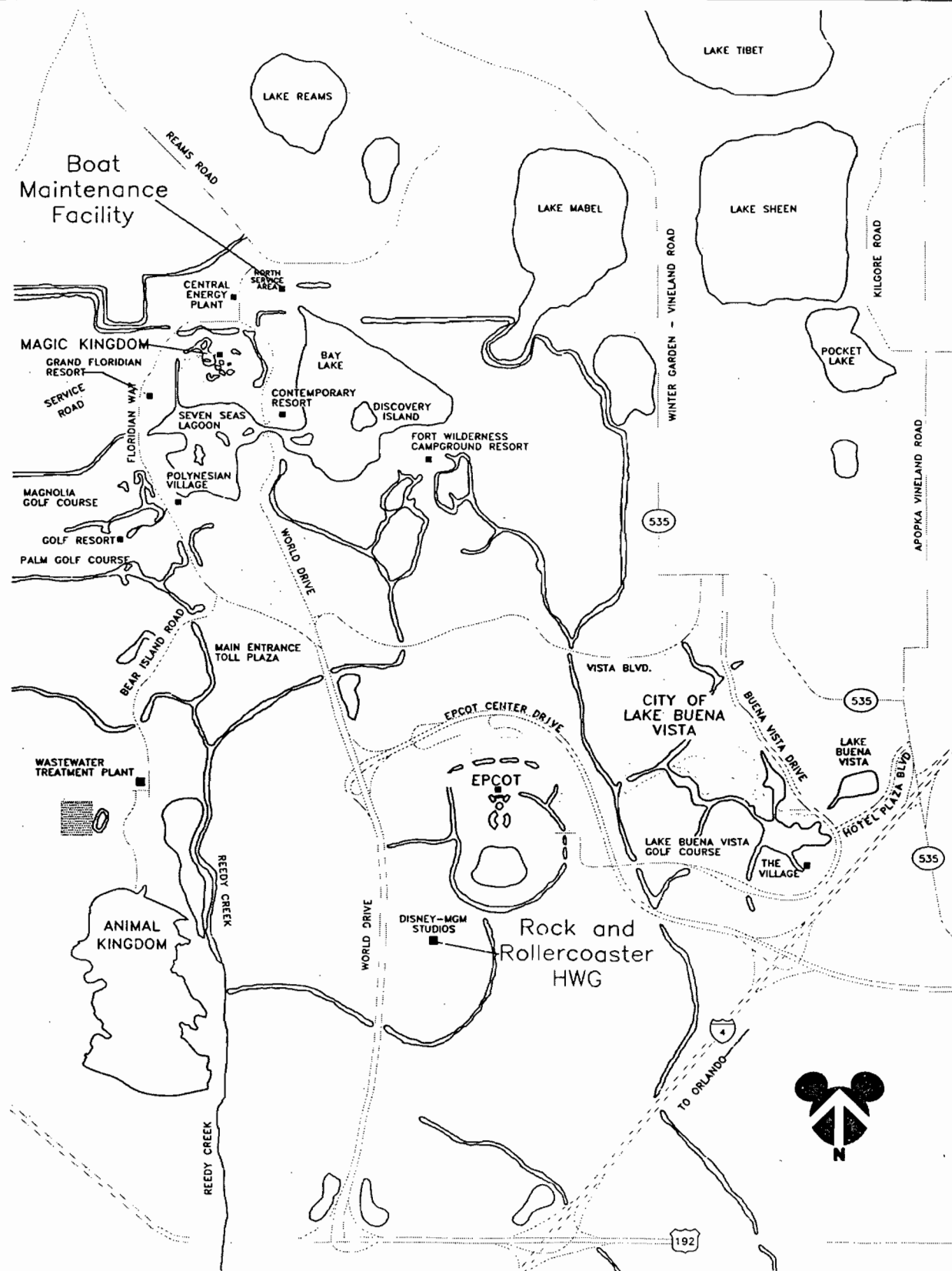
**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Do not store above 120° F. Store large quantities in buildings designed and protected for storage of OSHA Classification Flammable Liquid indicated in SECTION IV.

**OTHER PRECAUTIONS:** Do not take internally. Containers should be grounded when pouring. Avoid storing near open flames. Do not flame cut, braze or weld without approved respirator or appropriate ventilation.

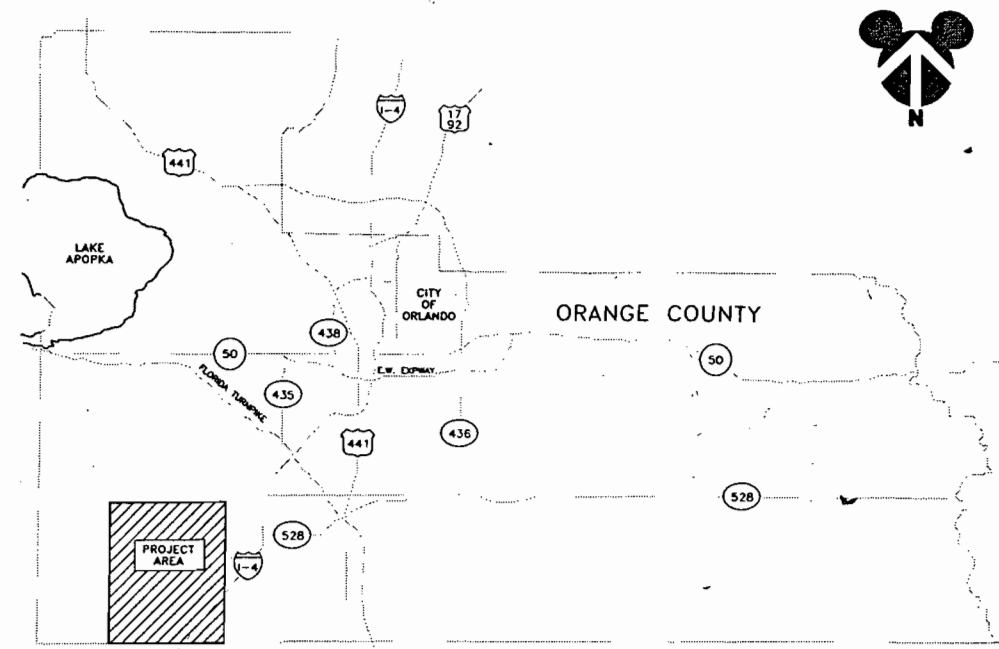


ATTACHMENT B  
 FACILITY PLOT PLAN  
 NORTH SERVICE AREA DRY DOCK FACILITY - BOAT MAINTENANCE AND PAINTING ENCLOSURE

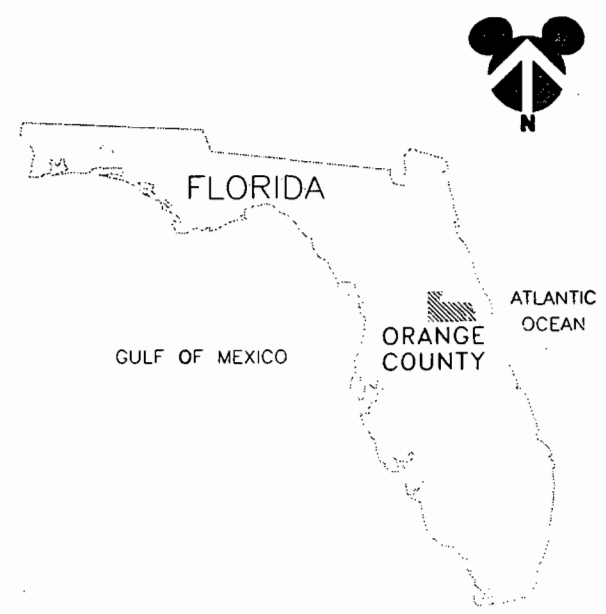




SITE LOCATION MAP



VICINITY MAP



LOCATION MAP

ATTACHMENT C  
 AREA MAP SHOWING FACILITY LOCATIONS  
 BOAT MAINTENANCE FACILITY AND ROCK AND ROLLERCOASTER HOT WATER GENERATOR

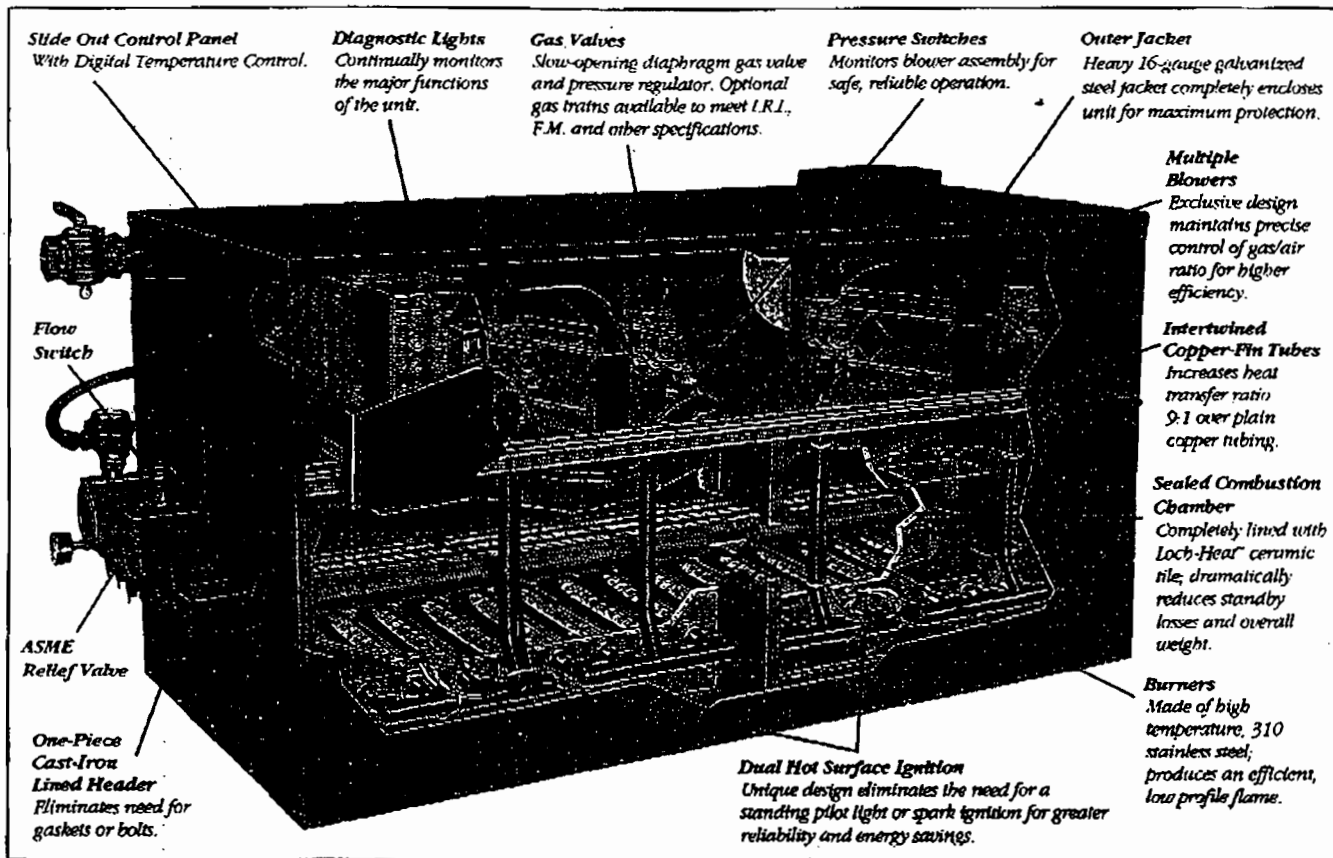




Best Available Copy

# Copper-Fin II 990-2070

Featuring Proportional Firing



## What Is Proportional Firing?

All Copper-Fin II commercial gas boilers feature a sealed combustion chamber to minimize heat loss, and a power-assisted fan provides just the right amount of combustion air to ensure the best combustion. But with the newest additions to the Copper-Fin II line, we've taken that a step further.

These new models not only maintain the ideal blend of gas and air for combustion, they do so in proportional amounts. They provide a measured response to the demand for heat—as much or as little as needed—while always maintaining the ideal gas/air ratio.

## How It Works

Multiple gas valves supply the burners in stages, and multiple blowers maintain the proper airflow to ensure the most efficient combustion at each level of use. All are controlled by our built-in sequencer\*. With digital accuracy, it carefully monitors the need for heat, and as demand increases or decreases, it automatically adjusts the blower output and gas valves.

As the demand is met, the system shuts down gradually, turning off gas valves and reducing combustion air intake in direct proportion. This allows the Copper-Fin II to maintain a virtually constant setting. In fact, it's accurate to within 1° Fahrenheit—a remarkable achievement in a unit of this capacity!

\*Featuring Digital Temperature Control (DTC).

## Consistent Performance

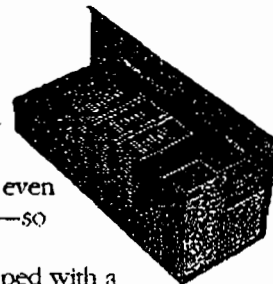
Conventional boilers achieve peak efficiency only when they're running at maximum capacity. When the demand for heat is lower, the efficiency is lower too. But the Copper-Fin II models with proportional firing not only offer more accurate temperature control, they consistently provide peak performance even when operating at reduced inputs. That means maximum energy savings at every level of usage.

Plus, our Copper-Fin heat exchanger provides superior heat transfer. In fact, it's nine times more efficient than conventional copper tubing.

## Total System Redundancy

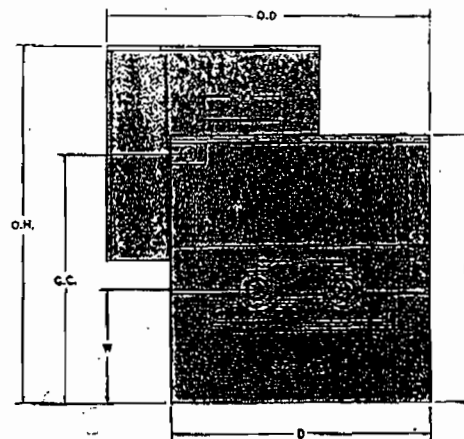
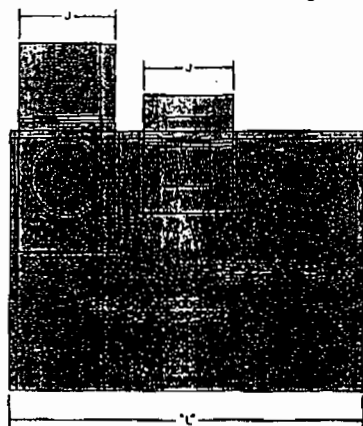
Proportional firing also means unmatched reliability. Every major component has a back-up—multiple gas valves, multiple fans, even dual Hot Surface Ignition Systems—so downtime is virtually eliminated.

What's more, each unit is equipped with a comprehensive Diagnostic Information Center; it alerts the operator if there is a problem and helps to isolate it quickly. The 990-2070 series also features the industry's first slide-out control panel with plug-in components. A built-in circuit breaker eliminates fuses, too—making servicing fast and easy.





### Copper-Fin II Boiler Dimensions & Specifications



MODEL NO	BTU INPUT	BTU OUTPUT	GAS CONN.	WATER CONN.	A	D	O.D.	G.C.	H	O.H.	J	L	V	W	WT.
CHN0300	300,000	252,000	3/4"	2"	6 1/2"	22 1/4"	27 1/8"	21"	28 3/4"	34 3/4"	12 1/4"	30 1/4"	5"	11 1/4"	270
CHN0400	399,999	336,000	1"	2"	6 1/2"	22 1/4"	27 1/8"	21"	28 3/4"	34 3/4"	12 1/4"	37 1/4"	6"	11 1/4"	310
CHN0500	500,000	420,000	1"	2"	6 1/2"	22 1/4"	27 1/8"	21"	28 3/4"	34 3/4"	12 1/4"	45 1/4"	6"	11 1/4"	352
CHN0650	650,000	546,000	1 1/4"	2"	6 1/2"	22 1/4"	27 1/8"	21"	28 3/4"	34 3/4"	12 1/4"	56 1/4"	8"	11 1/4"	413
CHN0750	750,000	630,000	1 1/4"	2"	6 1/2"	22 1/4"	27 1/8"	21"	28 3/4"	34 3/4"	12 1/4"	63 1/4"	8"	11 1/4"	447
CHN0990	990,000	831,600	1 1/2"	2 1/2"	11 1/2"	33 1/2"	41 1/4"	33"	35 1/4"	47 1/4"	14"	48 3/4"	10"	15"	804
CHN1260	1,260,000	1,058,400	1 1/2"	2 1/2"	11 1/2"	33 1/2"	41 1/4"	33"	35 1/4"	47 1/4"	16"	58 1/2"	12"	15"	1018
CHN1440	1,440,000	1,207,600	2"	2 1/2"	11 1/2"	33 1/2"	41 1/4"	33"	35 1/4"	47 1/4"	16"	68 1/4"	12"	15"	1126
CHN1800	1,800,000	1,512,000	2"	2 1/2"	11 1/2"	33 1/2"	41 1/4"	33"	35 1/4"	47 1/4"	18"	82 1/4"	14"	15"	1269
CHN2070	2,070,000	1,738,800	2"	2 1/2"	11 1/2"	33 1/2"	41 1/4"	33"	35 1/4"	47 1/4"	18"	92 1/4"	14"	15"	1376

Note: Change 'N' to 'L' to denote L.P. model. No deration on L.P. models.

#### Standard Features

- 84% Thermal Efficiency
- Sealed Combustion Chamber
- Hot Surface Ignition
- "310" Stainless Steel Burners
- Redundant Gas Valves
- Unique Gasketless Copper-Fin Heat Exchanger
- Loch-Heat™ Ceramic Tile Combustion Chamber
- ASME 160# W.P.
- 50 psi ASME Pressure Relief Valve
- NOx Rating of 9.9 ppm
- Diagnostic Control Panel
- 24v Controls
- Temperature/Pressure Gauge
- Air Pressure Switch
- Manually-Operated/Lubricated Plug Cock
- 10-Year Warranty
- Guaranteed Against Thermal Shock
- Stackable

- Fits Through Standard 36" Doorframes
- 3" Clearance From Combustible Walls
- Category 1 Venting

#### Additional Features (990-2070 Models)

- Proportional Firing
- Dual Hot Surface Ignition Systems
- Multiple Blowers
- Built-In Sequencer
- Digital Temperature Control (DTC)
- Slide-Out Control Panel with Plug-In Components
- Terminal Strip
- Expanded 15-Light Diagnostic Panel
- Flow Switch
- Manual Reset High Limit
- Terminal Strip for E.M.S. Hook-ups

- Cupro Nickel Heat Exchanger
- Manual Reset Hi-Limit (Models 300-750)
- Alarm Bell
- Flow Switch (Models 300-750)
- Low Water Cut-Off
- Mod-u-Pak Sequencer
- All Bronze Pump
- Multi-Stack Stand
- Outdoor Reset

#### Available Firing Systems

300-750	990-2070	
F9	M9	Electronic Control with Hot Surface Ignition (Standard)
F3	M3	FM Approved*
F4	M4	IRI*
F5	M5	Illinois School Code*
F7	M7	California Code

\* Indoor only.  
Patent Pending

#### Optional Equipment

- Powered Vent Cap for Horizontal DirectAire™ Venting (110v) and sidewall



Boiler design certified by A.G.A. as hot water boilers for both natural gas and propane gas.



All models comply with ASME Boiler Pressure Vessel Code, Section IV, 180 psi working pressure.



Canadian Gas Association

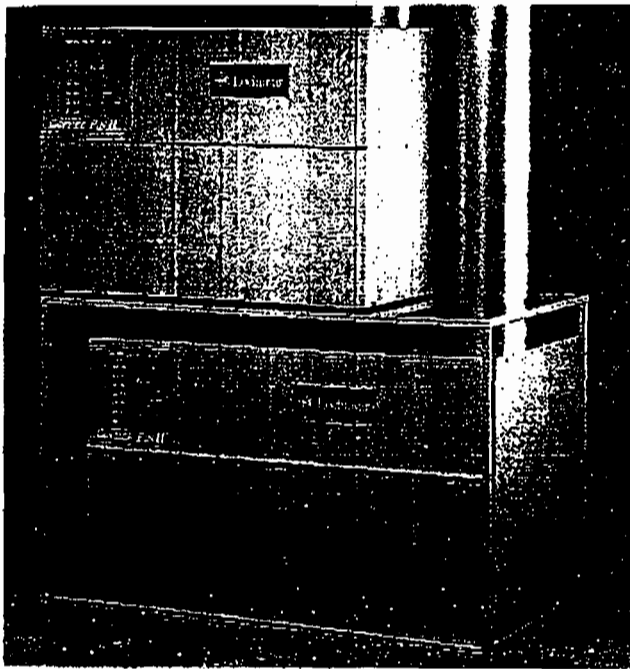


**A Space-Saving, Money-Saving Design**

The entire Copper-Fin II line offers you greater flexibility and ease of installation. Because of their high efficiency, these units are also compact enough to fit through standard 36" doorways intact. Even our 2 million BTU model is only 32" wide.

Once inside, these space-saving designs leave more room in the mechanical room. Plus, the Copper-Fin II offers four indoor venting options, including Lochinvar's own power-assisted DirectAire™ system. Or use them with the optional outdoor vent hood.

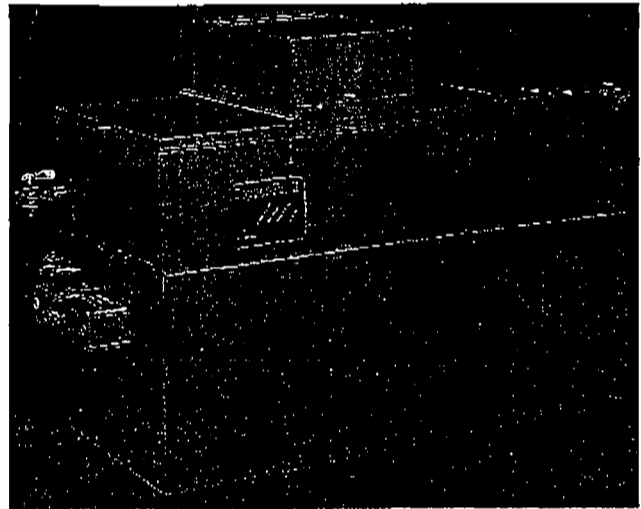
What's more, the sealed combustion chamber minimizes heat loss so dramatically that Copper-Fin II units require only 3" clearance from combustible walls. And the optional new Multi-Stack stand allows you to put two units in the space normally required for one.



Multi-Stack Stand

High-efficiency, fan assisted combustion means you can use a smaller diameter vent stack, up to 8" smaller than typically required—making installation less expensive and less time-consuming.

So save energy, save space, and save on installation costs—with Copper-Fin II boilers.



The Copper-Fin II® Outdoor Model

**Vent Cost Savings**

INPUT	CONVENTIONAL VENT SIZE	COPPER-FIN II VENT SIZE	\$ SAVINGS*
300,000	8"	5"	253.00
400,000	10"	6"	657.00
500,000	10"	6"	657.00
650,000	12"	8"	731.00
750,000	14"	8"	1,450.00
990,000	16"	10"	1,790.00
1,260,000	16"	12"	1,463.00
1,440,000	18"	12"	2,432.00
1,800,000	20"	14"	3,526.00
2,070,000	22"	14"	3,738.00

\*Comparison based on 25' vent system using Type "B" double wall vent material, storm collar and vent cap.

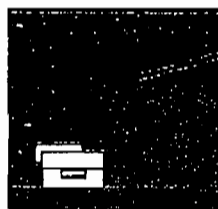
**Venting Options**



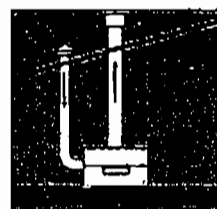
**Conventional**  
Vents into conventional flue or vent breaching using Type B category flue.



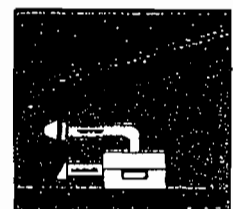
**Side Wall**  
Vents directly through the outside wall using the optional powered side wall cap. Ideal when a vent stack is not practical.



**Outdoor**  
Requires an add-on outdoor vent cap. Use when indoor space is a problem or if outdoor location gives better access.

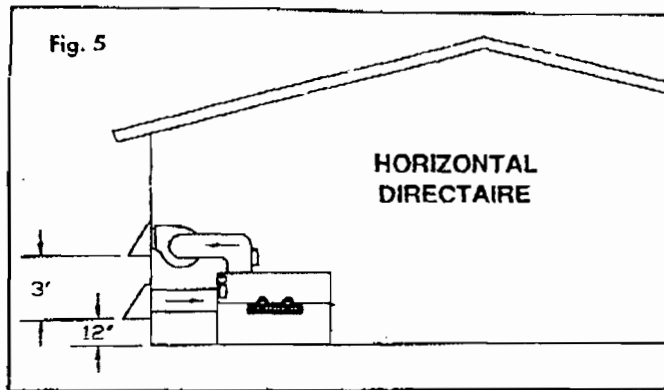


**DirectAire Vertical**  
Draws fresh combustion air from outside, and vents combustion by-products through conventional vertical flue.



**DirectAire Horizontal**  
Again draws fresh combustion air from outside, then vents by-products through side wall using optional powered vent cap.

Fig. 5



**HORIZONTAL DIRECTAIRE**

For venting flue products horizontally to outdoors, follow all requirements in the installation instructions for side wall venting.

The horizontal DirectAire system requires installation of a single wall pipe to supply combustion air from outdoors directly to the unit. The maximum length of this pipe is 50 equivalent feet (15.24m). Subtract 5 feet (1.52m) per elbow.

Combustion air supplied from outdoors must be free of contaminants (See Combustion and Ventilation Air). To prevent recirculation of flue products into the combustion air inlet, follow all instructions in this section.

The combustion air inlet cap must be at least 3 feet (0.91m) below the powered vent cap, if within 10 feet (3.05m). The combustion air cap and powered vent cap **MUST** be located on the same wall and in the same pressure zone.

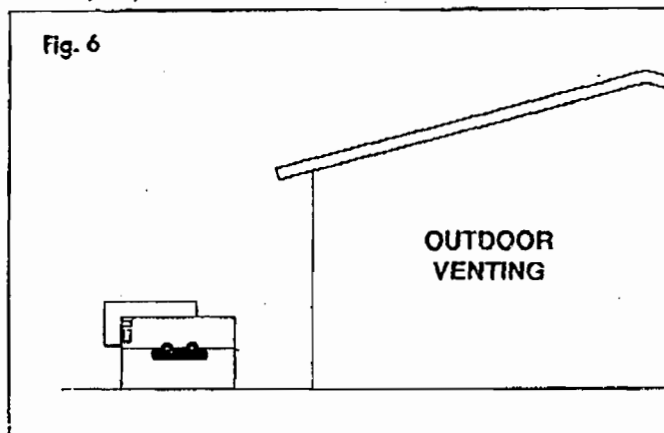
The combustion air cap must not be installed closer than 3 feet (0.91m) from an inside corner of an L-shaped structure.

The combustion air cap must be installed at least one foot (0.30m) above ground level and above normal snow levels.

The required horizontal DirectAire kit part numbers are listed by unit size. Each kit includes the special sidewall vent components for the flue, a combustion air intake cap for side wall mounting and the transition adaptor to attach the field supplied single wall air inlet pipe to the unit.

Input BTU/hr	Flue Size	Horizontal DirectAire Kit Number
990,000	10"	HDK3009
1,260,000	12"	HDK3010
1,440,000	12"	HDK3011
1,800,000	14"	HDK3012
2,070,000	14"	HDK3012

Fig. 6



**OUTDOOR INSTALLATION**

Units are self venting and can be used outdoors when installed with the optional Outdoor Cap. This cap mounts to the unit top and no additional vent piping is required.

**WARNING:** Outdoor models **MUST** be installed outdoors and **MUST** use the vent cap supplied by the manufacturer. Personal injury or product damage may result if any other cap is used or if an outdoor model is used indoors. All covers, doors and jacket panels must be properly installed to insure proper operation and prevent a hazardous condition.

Combustion air supply must be free of contaminants (See Combustion and Ventilation Air). To prevent recirculation of flue products into the combustion air inlet, follow all instructions in this section.

The venting areas must never be obstructed. Keep area clean and free of combustible and flammable materials. Maintain a minimum clearance of 3" to combustible surfaces and a minimum of 3" clearance to the air inlet. To avoid a blocked air inlet or blocked flue condition, keep the outdoor cap air inlet, flue outlet and drain slot clear of snow, ice, leaves, debris, etc.

A unit should not be located so that high winds can deflect off of adjacent walls, buildings or shrubbery causing recirculation. Recirculation of flue products may cause operational problems, bad combustion or damage to controls. The unit should be located at least 3 feet (0.91m) from any wall or vertical surface to prevent adverse wind conditions from affecting performance.

Multiple unit outdoor installations require 48" (1.22m) clearance between vent caps.

The outdoor cap must be located 4 feet (1.22m) below and 4 feet (1.22m) horizontally from any window, door, walkway or gravity air intake.

The combustion air inlet of the outdoor cap must be located at least one foot (0.30m) above grade and above normal snow levels.

The unit must be at least 10 feet (3.05m) away from any forced air inlet.

The unit must be at least 3 feet (0.91m) outside any overhang.

Clearances around outdoor installations can change with time. Do not allow the growth of trees, shrubs or other plants to obstruct the proper operation of the outdoor vent system.

Do not install in locations where rain from building runoff drains will spill into the boiler.

Flue gas condensate can freeze on exterior walls or on the vent cap. Frozen condensate on the vent cap can result in a blocked flue condition. Some discoloration to exterior building or unit surfaces can be expected. Adjacent brick or masonry surfaces should be protected with a rust resistant sheet metal plate.

The required outdoor cap part numbers are listed by unit size. Each kit includes the flue products outlet/combustion air inlet assembly.

Input BTU/hr	Outdoor Cap Kit Number
990,000	ODK3009
1,260,000	ODK3010
1,440,000	ODK3010
1,800,000	ODK3011
2,070,000	ODK3011

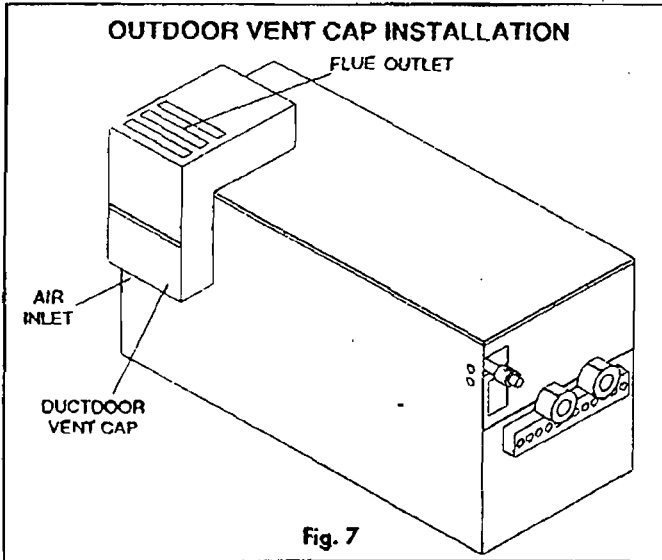


Fig. 7

**GAS SUPPLY**

Verify unit is supplied with type gas specified on data plate. Consult factory for installations above 2000 feet elevation.

**INLET PRESSURE:** Measured at the inlet pressure tap located at the main gas cock. This is upstream of the combination gas valves for each stage of operation.

TABLE A

	Nat. Gas	LPG
Max. (Inches-Water Column)	14"	14"
Min. (Inches-Water Column)	5"	11"

The maximum inlet gas pressure must not exceed the value specified. Minimum value listed is for the purpose of input adjustment.

**MANIFOLD PRESSURE:** Measured at the pressure tap on the downstream side of the combination gas valve for each stage of operation.

TABLE B

BTU Input	Nat. Gas	LPG
990,000-2,070,000	3.5"	10"

Manifold pressure tap located downstream of main gas valve.

**GAS PRESSURE TEST**

1. The appliance must be disconnected from the gas supply piping system during any pressure testing of that system at a test pressure in excess of 1/2 PSIG (3.5kPa). The appliance must be isolated from the gas supply piping system by closing a manual shutoff valve during any pressure testing of the gas supply piping system at test pressure equal to or less than 1/2 PSIG (3.5kPa).
2. The appliance and its gas connection must be leak-tested before placing it in operation.

**GAS CONNECTION**

1. Safe operation of unit requires properly sized gas supply piping. See data below.
2. Gas pipe size may be larger than heater connection.
3. Installation of a union is suggested for ease of service.
4. Install a manual main gas shutoff valve, outside of the appliance gas connection and before the gas valve, when Local Codes require.
5. A trap (drip leg) **MUST** be provided in the inlet of the gas connection to the unit.

6. Route bleeds and vents to the atmosphere, outside the building when required by Local Codes.

**SINGLE UNIT INSTALLATIONS  
SUGGESTED GAS PIPE SIZE TABLE C**

BTU INPUT	DISTANCE FROM METER				
	0-50'	51'-100'	101'-200'	201'-300'	301'-500'
990,000	2"	2"	2½"	2½"	3"
1,260,000	2"	2½"	2½"	3"	3"
1,440,000	2"	2½"	3"	3"	3½"
1,800,000	2½"	2½"	3"	3"	3½"
2,070,000	2½"	3"	3"	3½"	4"

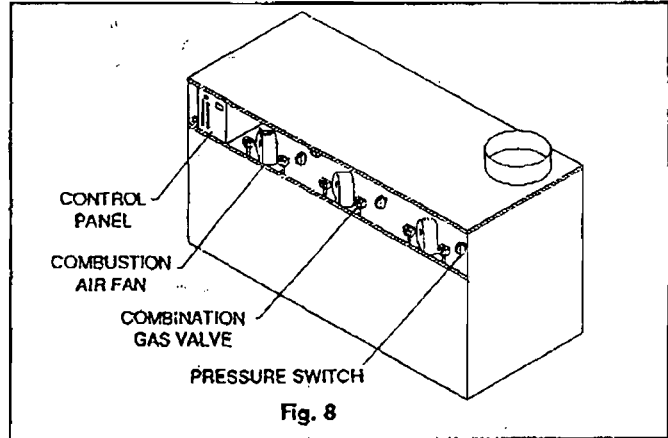


Fig. 8

**COMBINATION GAS VALVES**

Each stage of burner operation has a combination gas valve to cycle the gas supply on and off and regulate gas to the burners. Each valve has an individual gas control knob that must remain in the open position at all times when the unit is in service. The manifold gas pressure tap for each burner stage is located at the discharge side of the valve for each stage. The manifold pressure is preset at the factory and adjustment is not usually required. If the manifold pressure is to be adjusted the burner stage must be firing while the manifold pressure is set.

**ELECTRICAL REQUIREMENTS (USA)**

This appliance is wired for 120 volt service. The unit, when installed, must be electrically grounded in accordance with the requirements of the authority having jurisdiction or in the absence of such requirements, with the latest edition of the National Fuel Gas Code ANSI/NFPA No. 70.

1. All wiring between the unit and field installed devices shall be made with type T wire [63° F (35° C) rise].
2. Line voltage wire exterior to the appliance must be enclosed in approved conduit or approved metal clad cable.

**AMP DRAW DATA  
TABLE D**

MODEL	FANS	CONTROLS	APPROXIMATE TOTAL AMPS
990	7.2	7.2	14.4
1260	7.2	7.2	14.4
1440	7.2	7.2	14.4
1800	10.8	7.2	18.0
2070	10.8	7.2	18.0



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL  
P 712 572 650

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System

Dear Mr. Moses:

Enclosed is Permit Number AQ48-170280 to change the permit conditions for the above referenced source pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period constitutes a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information: (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action.

cc. 12/20  
B. Penn  
L. McLeod  
B. Kohl  
D. Wiedenbeck  
B. O'Neal

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application, have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above, and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S. , and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

*c m c* 

A. Alexander, F.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to Section  
120.52 (11), Florida Statutes, with the  
designated Department Clerk, receipt of  
which is hereby acknowledged.

 12/15/93  
Clerk Date

AA/lbl

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed  
before the close of business on 12-15-93 to the listed persons by,

D. Jones



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The permit conditions are changed as follows:

Specific Condition No. 2

From

"Natural gas shall be the primary fuel fired in the turbine and duct burner system. No. 2 fuel oil can be used as a backup fuel for up to 14 days per year"

To

"Natural gas shall be the primary fuel fired in the turbines and duct burner system. No. 2 fuel oil can be used as a backup fuel in the turbine only for up to 14 days per year".

Specific Condition No. 5

From

"The duct burner NOx emissions shall not exceed (corresponding to 0.2lb/MMBtu) 4.6 lb/hr for gas or oil at 23MMBtu heat input or 40lb/hr for gas or oil at 198MMBtu/hr."

To

"The duct burner NOx emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas at 23MMBtu heat input or 40lb/hr for gas at 198MMBtu/hr."



Specific Condition No. 10c

From

"The project shall comply with all the applicable requirements of:

- a. Chapter 17-2. FAC
- b. 40 CFR 60, Subpart GG, Gas Turbines
- c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units"

To


"The project shall comply with all the applicable requirements of:

- a. Chapter 17-200 series, F.A.C.
- b. 40 CFR 60, Subpart GG, Gas Turbines"

All other conditions remain the same.

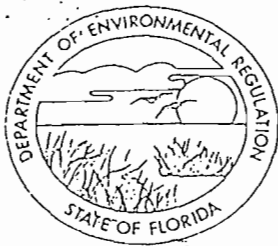
This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*cm*   
 A. Alexander, P.E.  
 District Director

Date 12/15/93

AA/bi



1201 KKH

# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

RECEIVED

JAN 16 1990

Reedy Creek Improvement District  
P.O. Box 36  
Lake Buena Vista, FL 32830

REEDY CREEK ENERGY SERVICES, INC.

Attention: Thomas M. Moses, Director/ General Manager

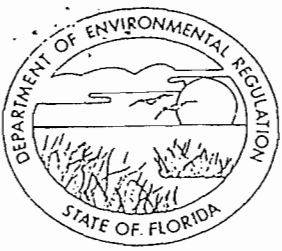
Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System

Dear Mr. Moses:

Enclosed is Permit Number A048-170280, dated 1-3-90, to operate a GE Gas Fired Turbine Generator with Heat Recovery System, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Reedy Creek Improvement District  
P.O. Box 36  
Lake Buena Vista, FL 32830  
  
Attention: Thomas M. Moses  
Director/ General Manager

I. D. Number:  
Permit/Certification  
Number: A048-170280  
Date of Issue:  
Expiration Date: 12/15/94  
County: Orange  
Latitude/Longitude:  
28°25'34"N/81°34'48"W  
UTM: 17-442.0 KmE; 3139.0 KmN  
Project: Gas Fired Turbine  
Generator with Heat Recovery  
System

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate a 30.8 MW GE LM5000 gas fired turbine generator system with a heat input capacity of 345 MMBTU/hr. The project includes an in-line duct burner, heat recovery boiler and steam turbine, at the Central Energy Plant. This source is located at Bay Lake, near Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727 or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority of the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
  - a. Having access to and copying any records that must be kept under the conditions of the permit.
  - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sampling or monitoring any substances or parameters at any location reasonable necessary to assure compliance with this permit or department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
  - a. a description of and cause of non-compliance; and

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
- Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards  
(Section 401, PL 92-500)
  - Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used; and
    - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
 Reedy Creek Improvement District  
 Attention: Thomas M. Moses  
 Director/General Manager

I. D. Number:  
 Permit/Certification Number:  
 A048-170280  
 Date of Issue:  
 Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

1. The turbine may operate continuously (8760 hrs/yr).
2. Only natural gas shall be fired in the turbine and duct burner. No. 2 oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.
3. The maximum heat input to the turbine and the duct burner combined shall not exceed 345 MMBTU/hr. (normal duct burner heat input rate of 23 MMBTU/hr).
4. When the gas turbine is not in operation, the duct burner heat input may be increased up to, but not to exceed, 198 MMBTU/hr.
5. The emissions, from the turbine and duct burner combined, shall not exceed:

<u>Pollutant</u>	<u>Gas Fired</u>		<u>Oil Fired</u> <sup>1</sup>	
	<u>lb/hr.</u>	<u>TPY*</u>	<u>lb/hr</u>	<u>TPY</u>
Nitrogen Oxides (NOX) peak @ 40°F	112		132	
	average	77 337	100	17
Sulfur Dioxide (SO <sub>2</sub> )	0.2	0.8	118	20
Particulates (PM)	0.8	3.5	9	2
Carbon Monoxide (CO)	11	48	24	4
Volatile Organics (VOCs)	6	26	6	1
Visible Emissions (VE)	5% opacity		10% opacity	
NOx, at 15% O <sub>2</sub> dry basis	peak	74 ppmv	82 ppmv <sup>2</sup>	
	Average	58 ppmv	68 ppmv	
SO <sub>2</sub> , at 15% oxygen dry basis	-		58 ppmv	

\*TPY (tons per year)

- 1 Oil will be fired only when there is natural gas curtailment. It will be fired for no more than 14 days annually.
- 2 Variation in concentration with variation in ambient air temperature documented by a plot of pollutant concentration versus -ambient temperature, as per initial compliance test results.

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
Director/General Manager

I. D. Number:  
Permit/Certification Number:  
A048-170280  
Date of Issue:  
Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

5. (Cont'd)

The average emissions will be calculated using hourly logged averages to obtain a 30 day average and then using 12 consecutive 30 day averages to obtain an annual average. The DER District Office may alter this averaging method after due consideration of alternative compliance plans.

The duct burner NOx emissions shall not exceed (corresponding to 0.2 lb/MMBTU) 4.6 lb/hr for gas or oil at 23 MMBTU heat input or 40 lbs/hr. for gas or oil at 198 MMBTU/hr.

6. The No. 2 oil sulfur content shall not exceed 0.4 percent.
7. The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness, shall not be operated beyond the 10 minutes/week check out period.

For inventory purposes only, the emergency generator's expected emissions are listed below:

<u>Pollutant</u>	<u>lbs/year</u>
NOx	232
CO	36
VOC	9
PM	8
SO <sub>2</sub>	30

8. Water injection shall be utilized for NOx control at a minimum of 0.55 water to fuel ratio. If compliance testing warrants this ratio to be re-investigated, the ratio at which compliance is maintained shall be incorporated into the permit.
9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceding 12 months period using:
  1. EPA Method 20 for NOx and SO<sub>2</sub>
  2. EPA Method 10 for CO
  3. EPA Method 5 for PM
  4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental approval.

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
Director/General Manager

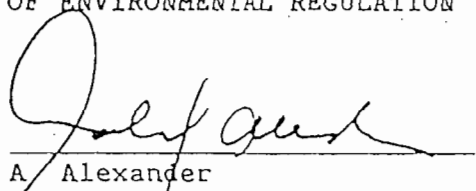
I. D. Number:  
Permit/Certification Number:  
A048-170280  
Date of Issue:  
Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

10. The project shall comply with all the applicable requirements of:
  - a. Chapter 17-2, FAC
  - b. 40 CFR 60, Subpart GG, Gas Turbines
  - c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units.
11. DER's District Office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.
12. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District Office.
13. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.
14. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-3-90

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*ABZ*  
  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

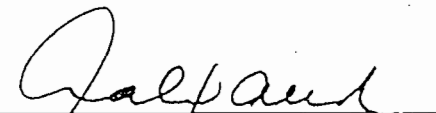


This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

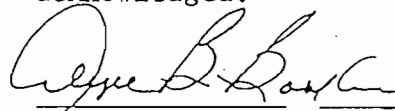
Executed in Orlando, Florida.

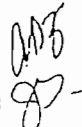
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cme* 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

 1/3/90  
Clerk Date

AA/jts 

Copies furnished to:  
Harold L. Culp, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-3-90 to the listed persons, by D. Jones.



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-1170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Generator with Heat Recovery System  
Permit No. AO48-170280  
Chance of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

Condition

Specific Condition No. 10

From

10. The project shall comply with all the applicable requirements of:
- a. Chapter 17-200 series, F.A.C.
  - b. 40 CFR 60, Subpart GG, Gas Turbines"

To

10. The project shall comply with all the applicable requirements of:
- a. Chapters 62-209 through 62-297, F.A.C.
  - b. 40 CFR, Subpart GG, Standards of Performance for Stationary Gas Turbines.
  - c. 40 CFR, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

In accordance with Rule 62-213.420(3), F.A.C., Standard Application Form and Required Information, the permittee is required to include all applicable requirements as defined in Rule 62-213.100(7), F.A.C., for each emission unit at this facility when applying for a Title V operating permit.

Condition

Specific Condition No. 15

Add

15. The following custom fuel monitoring schedule shall be used at this facility:

Custom Fuel Monitoring Schedule for Natural Gas

- 1) Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel being fired in the gas turbines.
- 2) Sulfur Monitoring
  - a) Analysis for sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The approved methods are ASTM D1072-80, ASTM D3030-81, ASTM D3246-81, and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).
  - b) This custom fuel monitoring schedule shall become effective on the date this amendment becomes valid. Effective the date of this custom schedule, sulfur monitoring shall be conducted at least once per calendar quarter. Sulfur analyses results shall be reported in units of grains of sulfur per 100 cubic feet of natural gas and shall be submitted with the quarterly excess emissions report required by 40 CFR 60.7. (EPA's letter dated June 15, 1994).
  - c) The sulfur content of the fuel shall also be expressed as maximum sulfur dioxide emissions (lb/hr) and shall be consistent with the limits specified in Specific Condition 5 of permit AC48-137740.
  - d) Should any sulfur analysis as required in items 2 (b) above indicate noncompliance with 40 CFR 60.313, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be re-examined. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 3) If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 4) Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

Reedy Creek Improvement District  
Permit No. AO48-170280  
Change of Conditions  
Page Three

Custom Fuel Monitoring Schedule for Liquid Fuel


- 1) Sulfur and nitrogen content of the liquid fuel:

Upon delivery of the fuel, a sample shall be randomly taken from one compartment of each truck and composited for analysis (for verification of the vendor data) by a third party laboratory using ASTM Method D-3228 for nitrogen analysis, and ASTM Method D-4294 for sulfur analyses.

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

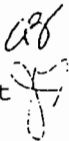
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

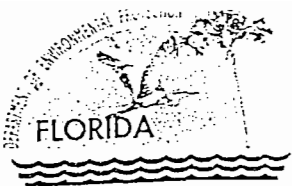
CMC 

William M. Bostwick, Jr., P.E.  
Acting District Director

DATE: 2/27/95

WMB/jtt

CB  




# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32395-2400

Virginia B. Wethers  
Secretary

June 16, 1995

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
EPCOT Center Diesel Generators No. 1 and No. 2  
Construction Permits AC 48-105243 and AC 48-106650 and  
GE Gas Turbine with Heat Recovery Steam Generator,  
PSD-FL-123 and AC 48-137740

The Department is in receipt of your letter dated April 17, 1995, requesting a revision of Specific Conditions Nos. 2 and 7 of the above mentioned permits. The Department considered your request and agrees to revise your permits as proposed in your letters.

The revision of Specific Condition No. 2 of each permit is finalized as follows:

SPECIFIC CONDITION No. 2 FOR PERMITS AC 48-105243 and AC 48-106650  
EPCOT CENTER DIESEL GENERATOR No. 1 and No. 2

FROM:

Old Specific Condition No.2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Actual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	1.5	2.8
Volatile Organic Compounds	2.0	2.0

*"Protect, Conserve and Manage Florida's Environment and Natural Resources"*

Printed on recycled paper

Mr. Thomas M. Moses  
June 16, 1995  
Page Two

TO:

New Specific Condition No. 2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Annual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	2.9	2.8
Volatile Organic Compounds	2.1	2.0

**SPECIFIC CONDITION No. 7 FOR PERMITS PSD-FL-123 & AC 48-137740  
GE GAS TURBINE WITH HEAT RECOVERY STEAM GENERATOR**

**RCID COMMENT:**

RCID requested to delete reference to Rule 62-252.300, F.A.C., since this rule applies to Gasoline Dispensing Facilities.

**DEPARTMENT RESPONSE:**

The Department acknowledges that Rule 62.252.300, F.A.C. does not apply to this source. However, this reference will not be deleted since it is part of the general statement of Rule 62-210.300(3), F.A.C., Exemptions. For clarification, specific condition No. 7 will be revised as follows:

**FROM:**

**Old Specific Condition No.7**

Pursuant to Rule 62-210.300(3)(u) F.A.C., this condition will be deleted.

It should be noted that pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., is subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements.

Mr. Thomas M. Moses  
June 16, 1995  
Page Three

Furthermore, pursuant to Rule 62-213.420(3)(m), F.A.C., this source, although currently exempt from permitting, is required to be included in the Title V operation permit application.

TO:

New Specific Condition No. 7

In accordance with Rule 62-210.300(3)(u) F.A.C., the Black Start Cummings No.2 fuel oil fired emergency electric generator is exempt from permitting requirements.

Pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., "shall be subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements."

Furthermore, pursuant to Rule 62-213.420(3)(m), F.A.C., this source, although currently exempt from permitting, is required to be included in the Title V operation permit application.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

(a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

March 30, 1995

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
GE Gas Turbine with Heat Recovery Steam Generator  
PSD-FL-123, AC48-137740

The Department is in receipt of your letter dated February 1, 1995, requesting revisions and deletions of several conditions of the above mentioned permit. The Department considered your request and agreed to revise your permit as proposed in your letter.

The revisions of the specific conditions of the permit are finalized as follows:

## **SPECIFIC CONDITION No. 7**

### **FROM:**

Initial and annual compliance testing shall be conducted with the fuels used in the preceding 12 month period using:

1. EPA Method 20 for NOx and SO2
2. EPA Method 10 for CO
3. EPA Method 5 for PM
4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Department approval.

### **TO:**

Pursuant to Rule 62-297.340, F.A.C., Frequency of Compliance Tests, initial and annual compliance testing shall be conducted with the fuels used in the preceding 12 month period using:



Mr. Thomas M. Moses  
March 30, 1995  
Page Two

1. EPA Method 20 for NOx and SO2
2. EPA Method 10 for CO
3. EPA Method 9 for VE

Other DEP approved methods may be used for compliance testing only after prior Department approval.

**SPECIFIC CONDITION No.7**

**FROM:**

The Black Start Cumming No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness shall not be operated beyond the 10 minutes/week check out period.

For inventory purposes only, the emergency generator's expected emissions are listed below:

POLLUTANT	lb/yr
NOX	232
CO	36
VOC	9
PM	8
SO2	30

**TO:**

Pursuant to Rule 62-210.300(3)(u) F.A.C., this condition will be deleted.

It should be noted that pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., is subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements.

Furthermore, pursuant to Rule 62-213.420(3)(m), F.A.C., this source, although currently exempt from permitting, is required to be included in the Title V operation permit application.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the

Mr. Thomas M. Moses  
March 30, 1995  
Page Three

information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

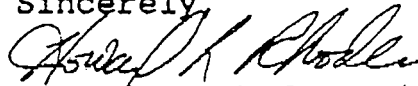
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right

Mr. Thomas M. Moses  
March 30, 1995  
Page Four

such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

A copy of this letter shall be filed with the construction permit, Nos. AC48-137740 and PSD-FL-123, and shall become a part of the permit.

Sincerely,



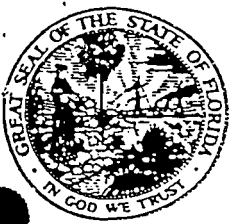
Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/th/t

Enclosure:

Mr. T.M. Moses' letter dated February 1, 1995

cc: Charles Collins  
Jewell Harper, EPA



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-1170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

## Condition

Specific Condition #3

### From:

3. The maximum heat input to the turbine and the duct burner combined shall not exceed 345 MMBtu/hr. (Normal duct burner heat input rate of 23 MMBtu/hr).

### To


3. Testing of emissions should be conducted with the source operating at 90% to 100% of design capacity. The source may be tested at less than 90% of design capacity; however subsequent source operation is limited to 110% of the tested rate until a new test is conducted and approved by the Department in writing. Once the unit is so limited, operation at higher capacities not to exceed 450 MMBtu/hr is allowed for a cumulative total of no more than 15 successive calendar days for purposes of additional compliance testing to regain permitted capacity, with prior notification to the Department [Rule 17-4.070(3), F.A.C.].

Reedy Creek Improvement District  
Permit No. AO48-170280  
Change of Conditions  
Page Two

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*cmc*  
  
A. Alexander, P.E.  
District Director

Date 2-14-14

*AA*

AA/azt

Copies furnished to:



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The permit conditions are changed as follows:

Specific Condition No. 2

From

"Natural gas shall be the primary fuel fired in the turbine and duct burner system. No. 2 fuel oil can be used as a backup fuel for up to 14 days per year".

To

"Natural gas shall be the primary fuel fired in the turbines and duct burner system. No. 2 fuel oil can be used as a backup fuel in the turbine only for up to 14 days per year".

Specific Condition No. 5

From

"The duct burner NOx emissions shall not exceed (corresponding to 0.2lb/MMBtu) 4.6 lb/hr for gas or oil at 23MMBtu heat input or 40lb/hr for gas or oil at 198MMBtu/hr."

To

"The duct burner NOx emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas at 23MMBtu heat input or 40lb/hr for gas at 198MMBtu/hr."

Specific Condition No. 10c

From

"The project shall comply with all the applicable requirements of:

- a. Chapter 17-2. FAC
- b. 40 CFR 60, Subpart GG, Gas Turbines
- c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units"

To


"The project shall comply with all the applicable requirements of:

- a. Chapter 17-200 series, F.A.C.
- b. 40 CFR 60, Subpart GG, Gas Turbines"

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

cmc   
A. Alexander, P.E.  
District Director

Date 12/15/93

AA/lbl



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

October 29, 1993

*File  
RCID/DEP*

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
P. O. Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
Gas Turbine Generator and Heat Recovery Steam Generator with  
Duct Burner  
Orange County - Permit No. AC48-137740 (AO48-170280)  
PSD-FL-123

The Department is in receipt of your letter dated September 29, 1993, on behalf of the above mentioned facility, requesting a permit amendment to change the continuous opacity monitoring requirement for the Heat Recovery Steam Generator (HRSG). RCID proposes to disconnect the fuel oil lines from the HRSG, thereby rendering it incapable of firing fuel oil and eliminating the requirement for a continuous opacity monitor system. The Department has considered your request and has agreed to amend the permit as proposed in your letter. This permit will be amended to include the following:

SPECIFIC CONDITION NO. 2:

FROM:

Only natural gas shall be fired in the turbine and duct burner. No. 2 oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.

TO:

Natural gas shall be the primary fuel fired in the turbines and duct burner system. No. 2 fuel oil can be used as a backup fuel in the turbine only for up to 14 days per year.



Mr. Thomas M. Moses  
October 29, 1993  
Page Two

SPECIFIC CONDITION NO. 5:

FROM:

The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas or oil at 23 MMBtu input or 40 lbs/hr for gas or oil at 198 Btu/hr.

TO:

The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas at 23 MMBtu heat input or 40 lbs/hr for gas at 198 MMBtu/hr.

SPECIFIC CONDITION NO. 10(c)

FROM:

The project shall comply with all the applicable requirements of:

- a. Chapter 17-2, FAC.
- b. 40 CFR 60, Subpart GG, Gas Turbines.
- c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units.

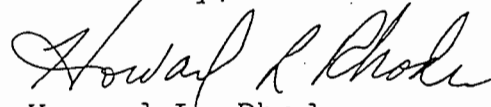
TO:

The project shall comply with all the applicable requirements of:

- a. Chapter 17-2, FAC.
- b. 40 CFR 60, Subpart GG, Gas Turbines.

If you have any questions, please contact Teresa Heron at (904) 488-1344 or write to me at the above address.

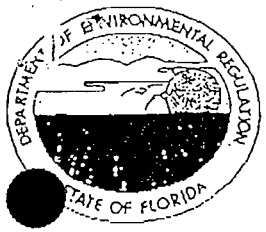
Sincerely,



Howard L. Rhodes  
Director  
Division of Air Resources  
Management

HLR/TH/bjb

cc: Alex Alexander



Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 7, 1993

✓  
File  
1/15-cc B. Penn  
B. Koll  
D. Widenbeck

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Re: Request for Amendment of Permit No. AC48-137740, PSD-FL-123

This is in reply to your letters dated September 22 and October 9, 1992, requesting amendment of the subject permit to (1) avoid the continuous emission monitoring requirement of Subpart Db, (2) include a limit on total annual hours for fuel oil firing, and (3) convert the weekly time limit on diesel generator operation to an annual time limit.

Item (1) above will not require an amendment for the following reason. Since 40 CFR 60, Subpart Db, Section 60.48b(h) provides an exemption from the continuous emission monitoring (CEM) requirement for the primary operation mode (i.e., turbine firing), the Department will not consider the "duct burner only" operation as a "stand alone boiler" but rather as a temporary operation mode of the combined cycle system wherein the turbine is unfired. Therefore, the Subpart Db CEM exemption will still apply when the facility must be operated without firing the turbine. No amendment is needed as long as the primary operation mode requires turbine firing.

Items (2) and (3) above will be amended since the permit language should be clarified. Therefore, specific conditions 2, 5, and 7 are amended as shown below.

Specific Condition No. 2

Present:

Only natural gas shall be fired in the turbine and duct burner. No. 2 fuel oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.

Mr. Thomas M. Moses  
Reedy Creek Improvement District  
Page 2

Amended:

Natural gas shall be the primary fuel fired in the turbine and duct burner system. No. 2 fuel oil can be used as a backup fuel for up to 14 days per year.

Specific Condition No. 5 (Footnote 1)

Present:

Oil will be fired only when there is natural gas curtailment. It will be fired for no more than 14 days annually.

Amended:

Fuel oil firing shall be limited to 14 days per year.

Specific Condition No. 7

Present:

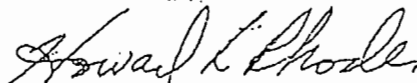
The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness shall not be operated beyond the 10 minutes/week check out period.

Amended:

The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness, shall not be operated for more than 9 hours per year.

This letter shall become an attachment of construction permit No. AC48-137740 (PSD-FL-123).

Sincerely,

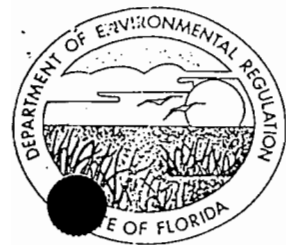


Howard L. Rhodes, P.E.  
Director  
Division of Air Resources  
Management

HR/JR/w

cc: A. Zahm, CD  
J. Harper, EPA

H. Culp, P.E.  
J. Bunyak, NPS



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator  
with Heat Recovery System  
Permit No. A048-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The permit conditions are changed as follows:

Specific Condition No. 5

The only change affects sulfur dioxide (SO<sub>2</sub>) under "Gas Fired", in which the maximum allowable emissions limit is changed from 0.2 lb/hr and 0.8 TPY to 1.2 lbs/hr and 5.1 TPY.

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

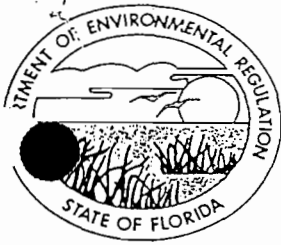
*Carole Alexander*  
Carole Alexander, District Director

8-13-91  
Date

AA/jtt

Copies to:

Edward Godwin, P.E.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Reedy Creek Improvement District  
Post Office Box 36  
Lake Buena Vista, Florida 32830

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

---

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions.  
The conditions are changed as follows:

CONDITION

Permit Specific Condition No. 9

FROM:

9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceding 12 month period using:

1. EPA Method 20 for NO<sub>x</sub> and SO<sub>2</sub>
2. EPA Method 10 for CO
3. EPA Method 5 for PM
4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental approval.

TO:

9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceding 12 month period using:

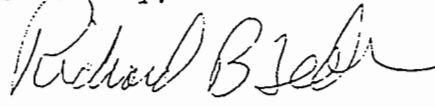
1. EPA Method 20 for NO<sub>x</sub> and SO<sub>2</sub>
2. EPA Method 10 for CO
3. EPA Method 17 for PM
4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental written approval.

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*c.m.c.* 

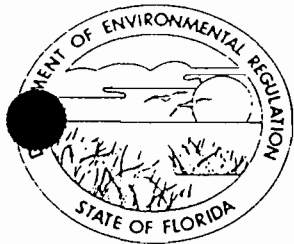
A. Alexander, P.E.

*for* Deputy Assistant Secretary

*2/15/91*

Date

*AB*  
AA:jtj *37*



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Reedy Creek Improvement District  
P.O. Box 36  
Lake Buena Vista, FL 32830

Attention: Thomas M. Moses  
Director/ General Manager

I. D. Number:  
Permit/Certification  
Number: A048-170280  
Date of Issue:  
Expiration Date: 12/15/94  
County: Orange  
Latitude/Longitude:  
28°25'34"N/81°34'48"W  
UTM: 17-442.0 KmE; 3139.0 KmN  
Project: Gas Fired Turbine  
Generator with Heat Recovery  
System

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate a 30.8 MW GE LM5000 gas fired turbine generator system with a heat input capacity of 345 MMBTU/hr. The project includes an in-line duct burner, heat recovery boiler and steam turbine, at the Central Energy Plant. This source is located at Bay Lake, near Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
 Reedy Creek Improvement District  
 Attention: Thomas M. Moses  
 Director/General Manager

I. D. Number:  
 Permit/Certification Number:  
 A048-170280  
 Date of Issue:  
 Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

1. The turbine may operate continuously (8760 hrs/yr).
2. Only natural gas shall be fired in the turbine and duct burner. No. 2 oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.
3. The maximum heat input to the turbine and the duct burner combined shall not exceed 345 MMBTU/hr. (normal duct burner heat input rate of 23 MMBTU/hr).
4. When the gas turbine is not in operation, the duct burner heat input may be increased up to, but not to exceed, 198 MMBTU/hr.
5. The emissions, from the turbine and duct burner combined, shall not exceed:

<u>Pollutant</u>	<u>Gas Fired</u>		<u>Oil Fired<sup>1</sup></u>	
	<u>lb/hr.</u>	<u>TPY*</u>	<u>lb/hr</u>	<u>TPY</u>
Nitrogen Oxides (NOX) peak @ 40°F	112		132	
	average 77	337	100	17
Sulfur Dioxide (SO <sub>2</sub> )	0.2	0.8	<u>118</u>	20
Particulates (PM)	0.8	3.5	9	2
Carbon Monoxide (CO)	11	48	24	4
Volatile Organics (VOCs)	6	26	6	1
Visible Emissions (VE)	5% opacity		10% opacity	
NOx, at 15% O <sub>2</sub> dry basis	peak	74 ppmv	82 ppmv <sup>2</sup>	
	Average	58 ppmv	68 ppmv	
SO <sub>2</sub> , at 15% oxygen dry basis	-		58 ppmv	

\*TPY (tons per year)

- 1 Oil will be fired only when there is natural gas curtailment. It will be fired for no more than 14 days annually.
- 2 Variation in concentration with variation in ambient air temperature documented by a plot of pollutant concentration versus ambient temperature, as per initial compliance test results.



PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
Director/General Manager

I. D. Number:  
Permit/Certification Number:  
A048-170280  
Date of Issue:  
Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

The average emissions will be calculated using hourly logged averages to obtain a 30 day average and then using 12 consecutive 30 day averages to obtain an annual average. The DER District Office may alter this averaging method after due consideration of alternative compliance plans.

The duct burner NOx emissions shall not exceed (corresponding to 0.2 lb/MMBTU) 4.6 lb/hr for gas or oil at 23 MMBTU heat input or 40 lbs/hr. for gas or oil at 198 MMBTU/hr.

6. The No. 2 oil sulfur content shall not exceed 0.4 percent.
7. The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness, shall not be operated beyond the 10 minutes/week check out period.

For inventory purposes only, the emergency generator's expected emissions are listed below:

<u>Pollutant</u>	<u>lbs/year</u>
NOx	232
CO	36
VOC	9
PM	8
SO <sub>2</sub>	30

8. Water injection shall be utilized for NOx control at a minimum of 0.55 water to fuel ratio. If compliance testing warrants this ratio to be re-investigated, the ratio at which compliance is maintained shall be incorporated into the permit.
9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceding 12 months period using:
  1. EPA Method 20 for NOx and SO<sub>2</sub>
  2. EPA Method 10 for CO
  3. EPA Method 5 for PM
  4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental approval.

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
Director/General Manager

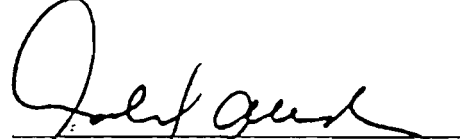
I. D. Number:  
Permit/Certification Number:  
A048-170280  
Date of Issue:  
Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

10. The project shall comply with all the applicable requirements of:
  - a. Chapter 17-2, FAC
  - b. 40 CFR 60, Subpart GG, Gas Turbines
  - c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units.
11. DER's District Office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.
12. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District Office.
13. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.
14. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-3-90

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*A038*  
  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

FACILITY ID 300RL480110 - Central Energy Plant - North Service Area

NOTICE OF PERMIT

RECEIVED

JAN 16 1990

Reedy Creek Improvement District  
P.O. Box 36  
Lake Buena Vista, FL 32830

REEDY CREEK ENERGY SERVICES, INC.

Attention: Thomas M. Moses, Director/ General Manager

Orange County - AP

GE Gas Fired Turbine Generator with Heat Recovery System

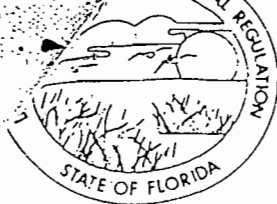
Dear Mr. Moses:

Enclosed is Permit Number AO48-170280, dated 1-3-90, to operate a GE Gas Fired Turbine Generator with Heat Recovery System, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.

CC: Ed Bodwin  
Bob Kindle  
Bob Koll  
Original to Frank for file



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Reedy Creek Improvement District  
P.O. Box 36  
Lake Buena Vista, FL 32830

Attention: Thomas M. Moses  
Director/ General Manager

I. D. Number:  
Permit/Certification  
Number: A048-170280  
Date of Issue:  
Expiration Date: 12/15/94  
County: Orange  
Latitude/Longitude:  
28°25'34"N/81°34'48"W  
UTM: 17-442.0 KmE; 3139.0 KmN  
Project: Gas Fired Turbine  
Generator with Heat Recovery  
System

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate a 30.8 MW GE LM5000 gas fired turbine generator system with a heat input capacity of 345 MMBTU/hr. The project includes an in-line duct burner, heat recovery boiler and steam turbine, at the Central Energy Plant. This source is located at Bay Lake, near Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations, and restrictions set forth herein are "Permit Conditions" and as such are binding upon the permittee and enforceable pursuant to the authority of Sections 403.161, 403.727 or 403.859 through 403.861, Florida Statutes. The permittee is hereby placed on notice that the department will review this permit periodically and may initiate enforcement action for any violation of the "Permit Conditions" by the permittee, its agent, employees, servants or representatives.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the department.
3. As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey any vested rights or any exclusive privileges. Nor does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit does not constitute a waiver of or approval of any other department permit that may be required for other aspects of the total project which are not addressed in the permit.
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgement of title, and does not constitute authority of the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the state. Only the Trustees of the Internal Improvement Trust Fund may express state opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, plant or aquatic life or property and penalties therefor caused by the construction or operation of this permitted source, nor does it allow the permittee to cause pollution in contravention of Florida Statutes and department rules, unless specifically authorized by an order from the department.
6. The permittee shall at all times properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized department personnel, upon presentation of credentials or other documents as may be required by law, access to the premises, at reasonable times, where the permitted activity is located or conducted for the purpose of:
  - a. Having access to and copying any records that must be kept under the conditions of the permit.
  - b. Inspecting the facility, equipment, practices, or operations regulated or required under this permit; and
  - c. Sampling or monitoring any substances or parameters at any location reasonable necessary to assure compliance with this permit or department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately notify and provide the department with the following information:
  - a. a description of and cause of non-compliance; and

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
- ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of Compliance with State Water Quality Standards  
(Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

Attention: Thomas M. Moses  
 Director/General Manager

SPECIFIC CONDITIONS: **BEST AVAILABLE COPY**

1. The turbine may operate continuously (8760 hrs/yr).
2. Only natural gas shall be fired in the turbine and duct burner. No. 2 oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.
3. The maximum heat input to the turbine and the duct burner combined shall not exceed 345 MMBTU/hr. (normal duct burner heat input rate of 23 MMBTU/hr).
4. When the gas turbine is not in operation, the duct burner heat input may be increased up to, but not to exceed, 198 MMBTU/hr.
5. The emissions, from the turbine and duct burner combined, shall not exceed:

Pollutant	Gas Fired		Oil Fired <sup>1</sup>	
	lb/hr.	TPY*	lb/hr.	TPY
Nitrogen Oxides (NOX) peak @ 40°F	112		132	
	average 77	337	100	17
Sulfur Dioxide (SO <sub>2</sub> )	0.2	0.8	118	20
Particulates (PM)	0.8	3.5	9	2
Carbon Monoxide (CO)	11	48	24	4
Volatile Organics (VOCs)	6	26	6	1
Visible Emissions (VE)	5% opacity		10% opacity	
NOx, at 15% O <sub>2</sub> dry basis	peak	74 ppmv	82 ppmv <sup>2</sup>	
	Average	58 ppmv	68 ppmv	
SO <sub>2</sub> , at 15% oxygen dry basis	-		58 ppmv	

\*TPY (tons per year)

- 1 Oil will be fired only when there is natural gas curtailment. It will be fired for no more than 14 days annually.
- 2 Variation in concentration with variation in ambient air temperature documented by a plot of pollutant concentration versus ambient temperature, as per initial compliance test results.

SPECIFIC CONDITIONS:

The average emissions will be calculated using hourly logged averages to obtain a 30 day average and then using 12 consecutive 30 day averages to obtain an annual average. The DER District Office may alter this averaging method after due consideration of alternative compliance plans.

The duct burner NOx emissions shall not exceed (corresponding to 0.2 lb/MMBTU) 4.6 lb/hr for gas or oil at 23 MMBTU heat input or 40 lbs/hr. for gas or oil at 198 MMBTU/hr.

6. The No. 2 oil sulfur content shall not exceed 0.4 percent.
7. The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness, shall not be operated beyond the 10 minutes/week check out period.

For inventory purposes only, the emergency generator's expected emissions are listed below:

<u>Pollutant</u>	<u>lbs/year</u>
NOx	232
CO	36
VOC	9
PM	8
SO <sub>2</sub>	30

8. Water injection shall be utilized for NOx control at a minimum of 0.55 water to fuel ratio. If compliance testing warrants this ratio to be re-investigated, the ratio at which compliance is maintained shall be incorporated into the permit.
9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceding 12 months period using:
  1. EPA Method 20 for NOx and SO<sub>2</sub>
  2. EPA Method 10 for CO
  3. EPA Method 5 for PM
  4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental approval.



PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
Director/General Manager

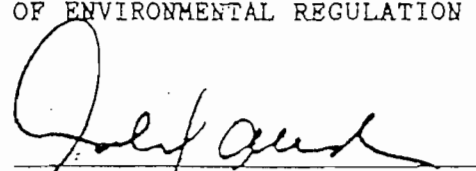
I. D. Number:  
Permit/Certification Number:  
AO48-170280  
Date of Issue:  
Expiration Date: 12/15/94

SPECIFIC CONDITIONS:

10. The project shall comply with all the applicable requirements of:
  - a. Chapter 17-2, FAC
  - b. 40 CFR 60, Subpart GG, Gas Turbines
  - c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units.
11. DER's District Office shall be notified in writing 15 days prior to source testing. Written reports of the tests shall be submitted to the district office within 45 days of test completion.
12. Any change in the method of operation, fuels, equipment or operating hours shall be submitted for approval to DER's District Office.
13. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.
14. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-3-90

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*AB*  
  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

**Best Available Copy**

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* *Alexander*  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

*Ally B. ...* *1/3/90*  
Clerk Date

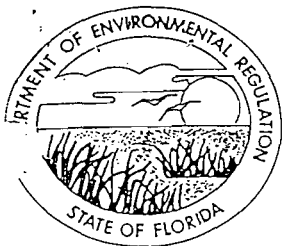
*AA/jts*  
*AA/jts*

Copies furnished to:  
Harold L. Culp, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on *1-3-90* to the listed persons, by *D. Jones*.

*Handwritten notes and signatures at the bottom left of the page.*



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

## NOTICE OF PERMIT

Reedy Creek Improvement District  
Post Office Box 36  
Lake Buena Vista, Florida 32830

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System

Dear Mr. Moses:

Enclosed is Permit Number AO48-170280, dated 2/15/91, to change the permit conditions, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.

2/19. Penn, B.

Kauf, B.

Dodwin, Ed

Smith, Willard

EG: BILL BROCK  
FRANK JONES  
BOB KINDLE

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* *Richard B. Alexander*

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

*Carol B. Lawrence* *2/15/91*  
Clerk Date

*AB*  
AA/jtj *97*

Enclosure

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on *2-18-91* to the listed persons, by *D. [Signature]*.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Reedy Creek Improvement District  
Post Office Box 36  
Lake Buena Vista, Florida 32830

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System  
Permit No. A048-170280  
Change of Conditions

---

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions.  
The conditions are changed as follows:

CONDITION

Permit Specific Condition No. 9

FROM:

9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceeding 12 month period using:

1. EPA Method 20 for NO<sub>x</sub> and SO<sub>2</sub>
2. EPA Method 10 for CO
3. EPA Method 5 for PM
4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental approval.

TO:

9. Annual compliance testing conducted annually from the date of February 1, 1989 shall be conducted with the fuels used in the preceeding 12 month period using:


1. EPA Method 20 for NO<sub>x</sub> and SO<sub>2</sub>
2. EPA Method 10 for CO
3. EPA Method 17 for PM
4. EPA Method 9 for VE

Other DER approved methods may be used for compliance testing only after prior Departmental written approval.

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,


*cm c* 

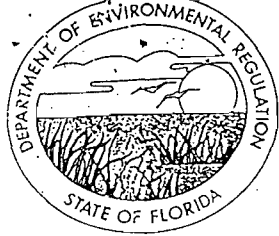
A. Alexander, P.E.

*for* Deputy Assistant Secretary

*2/15/91*

\_\_\_\_\_  
Date

*AA*  
AA:jtj 



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

## NOTICE OF PERMIT ISSUANCE

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator  
with Heat Recovery System  
Permit No. A048-170280

Dear Mr. Moses:

Enclosed is Permit Number A048-170280 to change the permit conditions, issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

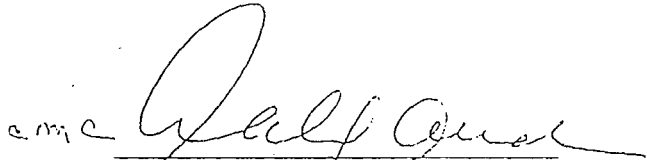
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

A. Salome      8/9/91  
Clerk                      Date

az  
AA/jtt

Copies furnished to:  
Edward Godwin, P.E. ✓

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on August 12, 1991 to the  
listed persons, by Sherrin Bouldin.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator  
with Heat Recovery System  
Permit No. A048-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The permit conditions are changed as follows:

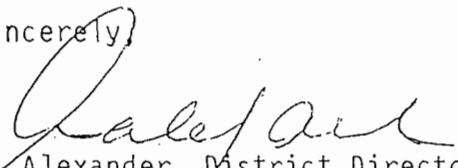
Specific Condition No. 5

The only change affects sulfur dioxide (SO<sub>2</sub>) under "Gas Fired", in which the maximum allowable emissions limit is changed from 0.2 lb/hr and 0.8 TPY to 1.2 lbs/hr and 5.1 TPY.

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

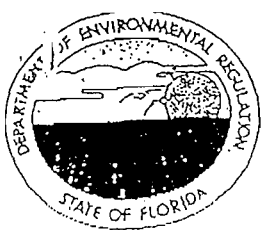
*amie*  
  
A. Alexander, District Director

8-13-91  
Date

*AA*  
AA/jtt

Copies to:

Edward Godwin, P.E.



*File*  
Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Lawton Chiles, Governor

Carol M. Browner, Secretary

January 7, 1993

1/15-cc B. Pann  
B. Korb  
D. Widenbeck

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Re: Request for Amendment of Permit No. AC48-137740, PSD-FL-123

This is in reply to your letters dated September 22 and October 9, 1992, requesting amendment of the subject permit to (1) avoid the continuous emission monitoring requirement of Subpart Db, (2) include a limit on total annual hours for fuel oil firing, and (3) convert the weekly time limit on diesel generator operation to an annual time limit.

Item (1) above will not require an amendment for the following reason. Since 40 CFR 60, Subpart Db, Section 60.48b(h) provides an exemption from the continuous emission monitoring (CEM) requirement for the primary operation mode (i.e., turbine firing), the Department will not consider the "duct burner only" operation as a "stand alone boiler" but rather as a temporary operation mode of the combined cycle system wherein the turbine is unfired. Therefore, the Subpart Db CEM exemption will still apply when the facility must be operated without firing the turbine. No amendment is needed as long as the primary operation mode requires turbine firing.

Items (2) and (3) above will be amended since the permit language should be clarified. Therefore, specific conditions 2, 5, and 7 are amended as shown below.

Specific Condition No. 2

Present:

Only natural gas shall be fired in the turbine and duct burner. No. 2 fuel oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.

Mr. Thomas M. Moses  
Reedy Creek Improvement District  
Page 2

Amended:

Natural gas shall be the primary fuel fired in the turbine and duct burner system. No. 2 fuel oil can be used as a backup fuel for up to 14 days per year.

Specific Condition No. 5 (Footnote 1)

Present:

Oil will be fired only when there is natural gas curtailment. It will be fired for no more than 14 days annually.

Amended:

Fuel oil firing shall be limited to 14 days per year.

Specific Condition No. 7

Present:

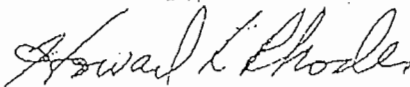
The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness shall not be operated beyond the 10 minutes/week check out period.

Amended:

The "Black Start" Cummins No. 2 oil fired emergency generator, when fired on a normal basis to maintain a state of readiness, shall not be operated for more than 9 hours per year.

This letter shall become an attachment of construction permit No. AC48-137740 (PSD-FL-123).

Sincerely,



Howard L. Rhodes, P.E.  
Director  
Division of Air Resources  
Management

HR/JR/W

cc: A. Zahm, CD  
J. Harper, EPA

H. Culp, P.E.  
J. Bunyak, NPS



# Florida Department of Environmental Protection

*File  
RCID/DEP*

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

October 29, 1993

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
P. O. Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
Gas Turbine Generator and Heat Recovery Steam Generator with  
Duct Burner  
Orange County - Permit No. AC48-137740 (AO48-170280)  
PSD-FL-123

The Department is in receipt of your letter dated September 29, 1993, on behalf of the above mentioned facility, requesting a permit amendment to change the continuous opacity monitoring requirement for the Heat Recovery Steam Generator (HRSG). RCID proposes to disconnect the fuel oil lines from the HRSG, thereby rendering it incapable of firing fuel oil and eliminating the requirement for a continuous opacity monitor system. The Department has considered your request and has agreed to amend the permit as proposed in your letter. This permit will be amended to include the following:

SPECIFIC CONDITION NO. 2:

FROM:

Only natural gas shall be fired in the turbine and duct burner. No. 2 oil shall be used in periods of curtailed natural gas supply. The duration of oil firing shall not exceed 14 days annually.

TO:

Natural gas shall be the primary fuel fired in the turbines and duct burner system. No. 2 fuel oil can be used as a backup fuel in the turbine only for up to 14 days per year.

Mr. Thomas M. Moses  
October 29, 1993  
Page Two

SPECIFIC CONDITION NO. 5:

FROM:

The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas or oil at 23 MMBtu input or 40 lbs/hr for gas or oil at 198 Btu/hr.

TO:

The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas at 23 MMBtu heat input or 40 lbs/hr for gas at 198 MMBtu/hr.

SPECIFIC CONDITION NO. 10(c)

FROM:

The project shall comply with all the applicable requirements of:

- a. Chapter 17-2, FAC.
- b. 40 CFR 60, Subpart GG, Gas Turbines.
- c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units.

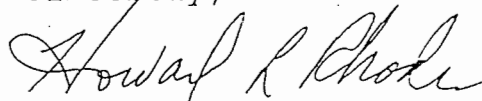
TO:

The project shall comply with all the applicable requirements of:

- a. Chapter 17-2, FAC.
- b. 40 CFR 60, Subpart GG, Gas Turbines.

If you have any questions, please contact Teresa Heron at (904) 488-1344 or write to me at the above address.

Sincerely,



Howard L. Rhodes  
Director  
Division of Air Resources  
Management

HLR/TH/bjb

cc: Alex Alexander



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT ISSUANCE

### CERTIFIED MAIL

P 712 572 650

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System

Dear Mr. Moses:

Enclosed is Permit Number AO48-170280 to change the permit conditions for the above referenced source pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding(hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period constitutes a waiver of any right such person may have to request an administrative determination(hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information: (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

cc - 12/20 -  
B. Penn  
D. Mc Keed  
B. Kohl  
D. Wiedenkant  
B. E. Tode

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application, have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above, and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S. , and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for extension of time, this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to this Order (Permit) has the right to seek judicial review of the permit pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.



Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*C M C* 

A. Alexander, F.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to Section  
120.52 (11), Florida Statutes, with the  
designated Department Clerk, receipt of  
which is hereby acknowledged.

 12/15/93  
Clerk Date

AA/lbl

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed  
before the close of business on 12-15-93 to the listed persons by,

D. Jones



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Turbine Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The permit conditions are changed as follows:

Specific Condition No. 2

From

"Natural gas shall be the primary fuel fired in the turbine and duct burner system. No. 2 fuel oil can be used as a backup fuel for up to 14 days per year".

To

"Natural gas shall be the primary fuel fired in the turbines and duct burner system. No. 2 fuel oil can be used as a backup fuel in the turbine only for up to 14 days per year".

Specific Condition No. 5

From

"The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2lb/MMBtu) 4.6 lb/hr for gas or oil at 23MMBtu heat input or 40lb/hr for gas or oil at 198MMBtu/hr."

To

"The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lb/hr for gas at 23MMBtu heat input or 40lb/hr for gas at 198MMBtu/hr."

Specific Condition No. 10c

From

"The project shall comply with all the applicable requirements of:

- a. Chapter 17-2. FAC
- b. 40 CFR 60, Subpart GG, Gas Turbines
- c. 40 CFR 60, Subpart Db, Industrial Steam Generating Units"

To

"The project shall comply with all the applicable requirements of:

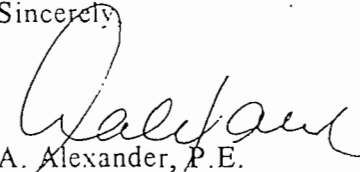
- a. Chapter 17-200 series, F.A.C.
  - b. 40 CFR 60, Subpart GG, Gas Turbines"
  - c. 40 CFR 60, Subpart Dd, Industrial Steam Generating Units
- All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Mistakenly left out by FDEP. Will be added back in during the next revision BJK.

Sincerely

CME

  
A. Alexander, P.E.  
District Director

Date 12/15/93

AA/lbl



Lawton Chiles  
Governor

Florida Department of  
**Environmental Protection**

**Best Available Copy**

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL  
P 185 463 042

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-1170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Generator with Heat Recovery System

Dear Mr. Moses:

Enclosed is Permit Number AO48-170280 to change the permit conditions for the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

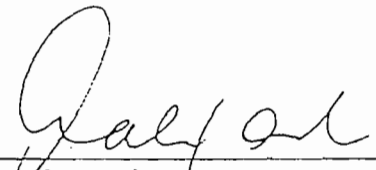
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*C.M.C.*   
\_\_\_\_\_  
A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT FILED,  
on this date, pursuant to §120.52(11),  
Florida Statutes, with the designated  
Department Clerk, receipt of which is  
hereby acknowledged.

AB

Dina Jones      2/14/94  
Clerk                      Date

AA/azt

Copies furnished to:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on 2/15/94 to the  
listed persons, by Whisperfield.



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Best Available Copy

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-1170

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
GE Gas Fired Generator with Heat Recovery System  
Permit No. AO48-170280  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

## Condition

Specific Condition #3

### From

3. The maximum heat input to the turbine and the duct burner combined shall not exceed 345 MMBtu/hr. (Normal duct burner heat input rate of 23 MMBtu/hr).

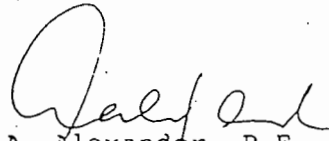
### To

3. Testing of emissions should be conducted with the source operating at 90% to 100% of design capacity. The source may be tested at less than 90% of design capacity; however subsequent source operation is limited to 110% of the tested rate until a new test is conducted and approved by the Department in writing. Once the unit is so limited, operation at higher capacities not to exceed 450 MMBtu/hr is allowed for a cumulative total of no more than 15 successive calendar days for purposes of additional compliance testing to regain permitted capacity, with prior notification to the Department [Rule 17-4.070(3), F.A.C.].

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*ame*   
A. Alexander, P.E.  
District Director

Date 2-14-14

*af*

AA/azt

Copies furnished to:





# Department of Environmental Protection

Office Building  
Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

October 10, 1994

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

10)

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
P. O. Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

Re: Amendment to Construction Permit  
AC48-137740 AO48-170280  
PSD-FL-123  
Custom Fuel Monitoring Schedule  
Reedy Creek Improvement District

This is in response to your June 15, 1994, letter, requesting a Custom Fuel Monitoring Schedule for sulfur content of the fuel and to clarify the applicable regulations for the subject facility. The facility is required to comply with Section 60.334(b) of Subpart GG of the New Source Performance Standards, which allows sources to apply for a custom fuel monitoring schedule. In addition, Specific Condition No. 10 is revised to include the 40 CFR 60, Subpart Db, NSPS for Industrial-Commercial Institutional Steam Generating Units. Therefore, the permit specific conditions are amended as follows:

New Specific Condition No. 14

The following custom fuel monitoring schedule shall be used at this facility:

Custom Fuel Monitoring Schedule for Natural Gas

1. Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel being fired in the gas turbines.
2. Sulfur Monitoring
  - a. Analysis for sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or

## Best Available Copy

Mr. Thomas M. Moses  
October 10, 1994  
Page Two

an approved alternative method. The approved methods are ASTM D1072-80, ASTM D3030-81, ASTM D3246-81, and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2).

- b. This custom fuel monitoring schedule shall become effective on the date this amendment becomes valid. Effective the date of this custom schedule, sulfur monitoring shall be conducted at least once per calendar quarter. Sulfur analyses results shall be reported in units of grains of sulfur per 100 cubic feet of natural gas and shall be submitted with the quarterly excess emissions report required by 40 CFR 60.7. (EPA's letter dated June 15, 1994).
  - c. The sulfur content of the fuel shall also be expressed as maximum sulfur dioxide emissions (lb/hr) and shall be consistent with the limits specified in Specific Condition 5 of permit AC 48-137740.
  - d. Should any sulfur analysis as required in items 2(b) above indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be re-examined. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
3. If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
  4. Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of three years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

### Custom Fuel Monitoring Schedule for Liquid Fuel

1. Sulfur and nitrogen content of the liquid fuel:

Upon delivery of the fuel, a sample shall be randomly taken from one compartment of each truck and composited for analysis (for verification of the vendor data) by a third party laboratory using ASTM Method D-3228 for nitrogen analysis, and ASTM Method D-4294 for sulfur analyses.

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Mr. Thomas M. Moses  
October 10, 1994  
Page Three

### Specific Condition No. 10

#### FROM:

The project shall comply with all the applicable requirements of:

- a. Chapter 17-2, FAC
- b. 40 CFR 60, Subpart GG, Gas Turbines

#### TO:

The project shall comply with all the applicable requirements of:

- a. Chapters 62-209 through 62-297, F.A.C.
- b. 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines.
- c. 40 CFR 60, Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units.

In accordance with Rule 17-213.420(3), F.A.C., Standard Application Form and Required Information, the permittee is required to include all applicable requirements as defined in Rule 17-213.100(7), F.A.C., for each emission unit at this facility when applying for a Title V operating permit.

#### Attachments to be Incorporated

Mr. Thomas M. Moses' June 5, 1994, letter.  
(Permit Amendment Fee Received September 8, 1994)

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

Mr. Thomas M. Moses  
October 10, 1994  
Page Four

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action;
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.


If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

Best Available Copy

Mr. Thomas M. Moses  
October 10, 1994  
Page Five

This letter amendment must be attached to Construction Permit No. AC48-137740 (AO48-170280), and shall become a part of the permit.

Sincerely,



Howard L. Rhodes  
Director  
Division of Air Resources  
Management

HLR/TH/bjb

Attachments

cc: C. Collins, CD  
J. Harper, EPA  
J. Bunyak, NPS

CERTIFICATE OF SERVICE

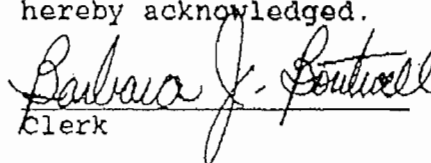
The undersigned duly designated deputy clerk hereby certifies that this AMENDMENT and all copies were mailed by certified mail before the close of business on 10/11/94 to the listed persons.

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,  
on this date, pursuant to  
120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

Clerk

Date

 10/11/94

### III. EMISSIONS UNIT INFORMATION

#### A. GENERAL EMISSIONS UNIT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

**Type of Emissions Unit Addressed in This Section**

- This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).
  
- This Emissions Unit Information Section addresses, as a single emissions unit, an individually-regulated emission point (stack or vent) serving a single process or production unit, or activity, which also has other individually-regulated emission points.
  
- This Emissions Unit Information Section addresses, as a single emissions unit, a collectively-regulated group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions only.
  
- This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.

Emissions Unit Description and Status

1. Description of Emissions Unit Addressed in This Section : Combustion Turbine with Heat Recovery Steam Generator		
2. ARMS Identification Number : Unknown		
3. Emissions Unit Status Code :  A	4. Acid Rain Unit?  Y	5. Emissions Unit Major Group SIC Code :  79
6. Initial Startup Date :		
7. Long-term Reserve Shutdown Date :		
8. Package Unit :  Manufacturer : General Electric Model Number : LM5000		
9. Generator Nameplate Rating : 38 MW		
10. Incinerator Information :  Dwell Temperature : °F Dwell Time : seconds Incinerator Afterburner Temperature : °F		
11. Emissions Unit Comment :  Emissions unit is a "regulated" emissions unit.		

**Emissions Unit Information Section**      37

**Emissions Unit Control Equipment**      1

1. Description :

Water injection for NOx control.

2. Control Device or Method Code :      28



Combustion Turbine with Heat Recovery Steam Generator

**Emissions Unit Operating Capacity**

1. Maximum Heat Input Rate :	450 mmBtu/hr	
2. Maximum Incinerator Rate :	lb/hr	tons/day
3. Maximum Process or Throughput Rate :	Units :	
4. Maximum Production Rate :	Units :	
5. Operating Capacity Comment :	Based on higher heating value	

Combustion Turbine with Heat Recovery Steam Generator

**Emissions Unit Operating Schedule**

Requested Maximum Operating Schedule :

24 hours/day

7 days/week

52 weeks/year

8760 hours/year

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

### Rule Applicability Analysis

N/A

## B. EMISSIONS UNIT REGULATIONS

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

### List of Applicable Regulations

See Appendix A, Table A-20 for listing of applicable emission unit regulations.

### C. EMISSION POINT (STACK/VENT) INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

#### Emission Point Description and Type :

1. Identification of Point on Plot Plan or Flow Diagram :	NSA CT/HRSG
2. Emission Point Type Code :	1
3. Descriptions of Emission Points Comprising this Emissions Unit :	N/A
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common :	N/A
5. Discharge Type Code :	V
6. Stack Height :	65 feet
7. Exit Diameter :	11.1 feet
8. Exit Temperature :	285 °F
9. Actual Volumetric Flow Rate :	301777 acfm
10. Percent Water Vapor :	%
11. Maximum Dry Standard Flow Rate :	dscfm
12. Nonstack Emission Point Height :	feet
13. Emission Point UTM Coordinates :	
Zone :	East (km) :                      North (km) :
14. Emission Point Comment :	

**D. SEGMENT (PROCESS/FUEL) INFORMATION**

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

**Segment Description and Rate :** Segment 1

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) :  Combustion turbine and duct burners fired with natural gas.	
2. Source Classification Code (SCC) : 2-02-002-03	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.44	5. Maximum Annual Rate : 3,846.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,025	
10. Segment Comment :	

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Segment Description and Rate : Segment 2

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Only the combustion turbine fired with No. 2 distillate oil.	
2. Source Classification Code (SCC) : 2-02-001-03	
3. SCC Units : Thousand Gallons Burned (all liquid fuels)	
4. Maximum Hourly Rate : 3.02	5. Maximum Annual Rate : 1,015.39
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur : 0.40 2223	8. Maximum Percent Ash : 0.01
9. Million Btu per SCC Unit : 140	
10. Segment Comment :	

## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

**Segment Description and Rate :** Segment 3

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Only the duct burners fired with natural gas.	
2. Source Classification Code (SCC) : 1-03-006-01	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.19	5. Maximum Annual Rate : 169.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,025	
10. Segment Comment : Maximum hourly rate is 0.193 mmft <sup>3</sup> /hr.	



## D. SEGMENT (PROCESS/FUEL) INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Segment Description and Rate : Segment 4

1. Segment Description (Process/Fuel Type and Associated Operating Method/Mode) : Combustion turbine only fired with natural gas.	
2. Source Classification Code (SCC) : 2-02-002-03	
3. SCC Units : Million Cubic Feet Burned (all gaseous fuels)	
4. Maximum Hourly Rate : 0.44	5. Maximum Annual Rate : 3,846.00
6. Estimated Annual Activity Factor :	
7. Maximum Percent Sulfur :	8. Maximum Percent Ash :
9. Million Btu per SCC Unit : 1,025	
10. Segment Comment :	

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 1

1. Pollutant Emitted :	SO2		
2. Total Percent Efficiency of Control :	%		
3. Primary Control Device Code :			
4. Secondary Control Device Code :			
5. Potential Emissions :	181.00	lb/hour	35.50 tons/year
6. Synthetically Limited?	Y		
7. Range of Estimated Fugitive/Other Emissions:		to	tons/year
8. Emissions Factor :			
Units :	NA		
Reference :	NA		
9. Emissions Method Code :			
10. Calculations of Emissions :	NA		
11. Pollutant Potential/Estimated Emissions Comment :	Based on distillate fuel oil firing. Use of distillate fuel oil is limited to 336 hrs/yr. Regulated emissions unit. Pollutant emitted - SO2.		

III. Part 9a - 1

DEP Form No. 62-210.900(1) - Form

No control devices.

Emissions Method Code - 0.

Pollutant Regulatory Code - EL.

Annual emission rate based on prorated natural gas (8,424 hrs/yr) and distillate fuel oil (336 hrs/yr) usage.

Actual natural gas usage may be 24 hr/day, 7 day/wk, 52 wk/yr.

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	
	1.20 lb/hour 5.10 tons/year
5. Method of Compliance :	Fuel analysis and consumption data
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280, as amended. Allowable emissions are for natural gas firing.

Pollutant Information Section 1

Allowable Emissions 2

1. Basis for Allowable Emissions Code :		OTHER	
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :			
4. Equivalent Allowable Emissions :		181.00	lb/hour
		30.40	tons/year
5. Method of Compliance :			
EPA Reference Method 20			
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :			
<p>Per Specific Condition No. 5 of Permit AO48-170280.                  Allowable emissions are for distillate fuel oil firing.</p> <p>This emission unit is currently permitted to burn 0.40 % sulfur oil at a maximum heat input rate of <math>450 \times 10^6</math> Btu/hr. Based on these limits, the maximum allowable emission should be 181 lb/hr. not the 118 lb/hr cited in the existing permit. Based on the annual operating limit of 336 hours, the allowable annual emission limit should be 30.4 tpy.</p>			

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 2

1. Pollutant Emitted :	NOX	
2. Total Percent Efficiency of Control :	65.00	%
3. Primary Control Device Code :	028	
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?	Y	
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor :		
Units :	NA	
Reference :	NA	
9. Emissions Method Code :		
10. Calculations of Emissions :	NA	
11. Pollutant Potential/Estimated Emissions Comment :	<p>Hourly emission rate based on distillate fuel oil firing. Use of distillate fuel oil is limited to 336 hrs/yr. Annual emission rate based on average emission rates of 77 lb/hr and 100 lb/hr for natural gas and distillate fuel oil, respectively. Annual emission rate based on prorated natural gas (8,424 hrs/yr) and</p>	

III. Part 9a - 3

DEP Form No. 62-210.900(1) - Form

distillate fuel oil (336 hrs/yr) usage.

Regulated emissions unit.

Pollutant emitted - NO<sub>x</sub>.

Primary control device - 028.

Emissions Method Code - 0.

Pollutant Regulatory Code - EL.

Emissions Unit Information Section 37

Pollutant Information Section 2

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	82.00	ppmv @ 15% O2	
4. Equivalent Allowable Emissions :	132.00	lb/hour	tons/year
5. Method of Compliance :	EPA Reference Method 20		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission rates are maximum values for distillate fuel oil firing.		



Emissions Unit Information Section 37

Pollutant Information Section 2

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	74.00	ppmv @ 15% O2	
4. Equivalent Allowable Emissions :	112.00	lb/hour	tons/year
5. Method of Compliance :	EPA Reference Method 20		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission limits are maximum values for natural gas firing.		

III. Part 9b - 4

DEP Form No. 62-210.900(1) - Form

Emissions Unit Information Section 37

Pollutant Information Section 2

Allowable Emissions 3

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	68.00	ppmv @ 15% O2	
4. Equivalent Allowable Emissions :	100.00	lb/hour	17.00 tons/year
5. Method of Compliance :	Continuous Monitoring System (CMS)		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emissions are average values for distillate fuel oil firing.		

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :	58.00	ppmv @ 15% O2	
4. Equivalent Allowable Emissions :	77.00	lb/hour	337.00 tons/year
5. Method of Compliance :	Continuous Monitoring System (CMS)		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emissions are average values for natural gas firing.		

Emissions Unit Information Section 37

Pollutant Information Section 2

Allowable Emissions 5

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	0.20 lb/MMBtu
4. Equivalent Allowable Emissions :	40.00 lb/hour tons/year
5. Method of Compliance :	EPA Reference Method 20
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission rate applies to duct burners at a heat input rate of 198 MMBtu/hr.

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 3

1. Pollutant Emitted :	PM
2. Total Percent Efficiency of Control :	%
3. Primary Control Device Code :	
4. Secondary Control Device Code :	
5. Potential Emissions :	9.00 lb/hour 4.90 tons/year
6. Synthetically Limited?	Y
7. Range of Estimated Fugitive/Other Emissions:	to tons/year
8. Emissions Factor :	
Units :	NA
Reference :	NA
9. Emissions Method Code :	
10. Calculations of Emissions :	NA
11. Pollutant Potential/Estimated Emissions Comment :	Hourly emission rate based on distillate fuel oil firing. Use of distillate fuel oil is limited to 336 hrs/yr. Annual rates are prorated for natural gas (8,424 hrs/yr) and distillate fuel oil (336 hrs/yr).

III. Part 9a - 5

DEP Form No. 62-210.900(1) - Form

Regulated emissions unit.  
PM10 emissions assumed to be equivalent to PM emissions.  
Pollutant emitted - PM.  
No control devices.  
Emissions Method Code - 0.  
Pollutant Regulatory Code - EL.

Emissions Unit Information Section 37

Pollutant Information Section 3

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	9.00 lb/hour 2.00 tons/year
5. Method of Compliance :	Not required per Rule 62-297.340(e), F.A.C., less than 400 hrs/yr operation.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission limits are for distillate fuel oil firing.

Emissions Unit Information Section 37

Pollutant Information Section 3

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	0.80 lb/hour 3.50 tons/year
5. Method of Compliance :	Not required per Rule 62-297.340(e), F.A.C.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emissions are for natural gas firing.



## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

**Pollutant Potential/Estimated Emissions :** Pollutant 4

1. Pollutant Emitted :	CO		
2. Total Percent Efficiency of Control :	%		
3. Primary Control Device Code :			
4. Secondary Control Device Code :			
5. Potential Emissions :	25.00	lb/hour	110.00 tons/year
6. Synthetically Limited?	Y		
7. Range of Estimated Fugitive/Other Emissions:			to tons/year
8. Emissions Factor :			
Units :	NA		
Reference :	NA		
9. Emissions Method Code :			
10. Calculations of Emissions :	NA		
11. Pollutant Potential/Estimated Emissions Comment :	<p>Hourly emission rate based on natural gas firing at low load.</p> <p>Regulated emissions unit. Pollutant emitted - CO.</p>		

No control devices.  
Emissions Method Code - 0.  
Pollutant Regulatory Code - EL.

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	24.00 lb/hour 4.00 tons/year
5. Method of Compliance :	EPA Reference Method 10
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 4 of Permit AO48-170280. Allowable emission limits are for distillate fuel oil firing.

Emissions Unit Information Section 37

Pollutant Information Section 4

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER		
2. Future Effective Date of Allowable Emissions :			
3. Requested Allowable Emissions and Units :			
4. Equivalent Allowable Emissions :	25.00	lb/hour	110.00 tons/year
5. Method of Compliance :	EPA Reference Method 10		
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 4 of Permit AO48-170280. Emission limits are for natural gas firing.		

## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Pollutant Potential/Estimated Emissions : Pollutant 5

1. Pollutant Emitted :	VOC			
2. Total Percent Efficiency of Control :	%			
3. Primary Control Device Code :				
4. Secondary Control Device Code :				
5. Potential Emissions :	6.00	lb/hour	26.30	tons/year
6. Synthetically Limited?	Y			
7. Range of Estimated Fugitive/Other Emissions:	to tons/year			
8. Emissions Factor :				
Units :	NA			
Reference :	NA			
9. Emissions Method Code :				
10. Calculations of Emissions :	NA			
11. Pollutant Potential/Estimated Emissions Comment :	Hourly emission rate based on distillate fuel oil firing. Use of distillate fuel oil is limited to 336 hrs/yr. Annual emission rate based on prorating natural gas (8,424 hrs/yr) and distillate fuel oil (336 hrs/yr) usage.			

III. Part 9a - 9

DEP Form No. 62-210.900(1) - Form

Regulated emissions unit.  
Pollutant emitted - VOC.  
No control devices.  
Emissions Method Code - 0.  
Pollutant Regulatory Code - EL.

Emissions Unit Information Section 37

Pollutant Information Section 5

Allowable Emissions 1

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	
	6.00 lb/hour 1.00 tons/year
5. Method of Compliance :	Vendor emission factor and fuel usage.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission rates are for distillate fuel oil firing.

Emissions Unit Information Section 37

Pollutant Information Section 5

Allowable Emissions 2

1. Basis for Allowable Emissions Code :	OTHER
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	
4. Equivalent Allowable Emissions :	
	6.00 lb/hour 26.00 tons/year
5. Method of Compliance :	Vendor emission factors and fuel usage.
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission rates are for natural gas firing.



## E. POLLUTANT INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Pollutant Potential/Estimated Emissions :      Pollutant 6

1. Pollutant Emitted :	HAPS	
2. Total Percent Efficiency of Control :	%	
3. Primary Control Device Code :		
4. Secondary Control Device Code :		
5. Potential Emissions :	lb/hour	tons/year
6. Synthetically Limited?		
7. Range of Estimated Fugitive/Other Emissions:	to	tons/year
8. Emissions Factor :		
Units :		
Reference :		
9. Emissions Method Code :		
10. Calculations of Emissions :		
11. Pollutant Potential/Estimated Emissions Comment :		
Regulated emissions unit. HAPS emissions in excess of 5.0 tpy for emissions unit. No control devices. Pollutant Regulatory Code - EL.		

Emissions Unit Information Section 37

Pollutant Information Section 2

Allowable Emissions 5

1. Basis for Allowable Emissions Code :	RULE
2. Future Effective Date of Allowable Emissions :	
3. Requested Allowable Emissions and Units :	0.20 lb/MMBtu
4. Equivalent Allowable Emissions :	40.00 lb/hour tons/year
5. Method of Compliance :	EPA Reference Method 20
6. Pollutant Allowable Emissions Comment (Desc. of Related Operating Method/Mode) :	Per Specific Condition No. 5 of Permit AO48-170280. Allowable emission rate applies to duct burners at a heat input rate of 198 MMBtu/hr.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 37

Visible Emissions Limitation : Visible Emissions Limitation 1

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : 5 %
	Exceptional Conditions : %
	Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	
	FDEP Method 9
5. Visible Emissions Comment :	
	Allowable opacity based on Specific Condition No. 5 of Permit AO48-170280. Allowable opacity is for natural gas firing.

## F. VISIBLE EMISSIONS INFORMATION

Emissions Unit Information Section 37

Visible Emissions Limitation : Visible Emissions Limitation 2

1. Visible Emissions Subtype :	VE
2. Basis for Allowable Opacity :	RULE
3. Requested Allowable Opacity :	
	Normal Conditions : 10 %
	Exceptional Conditions : %
	Maximum Period of Excess Opacity Allowed : min/hour
4. Method of Compliance :	
	FDEP Method 9
5. Visible Emissions Comment :	
	Allowable opacity based on Specific Condition No. 5 of Permit AO48-170280. Allowable opacity is for distillate fuel oil firing.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Continuous Monitoring System : Continuous Monitor 1

1. Parameter Code :	NOX
2. CMS Requirement :	RULE
3. Monitor Information :	Manufacturer : Thermo Environmental Model Number : 42D Serial Number :
4. Installation Date :	
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by the Federal Acid Deposition Program - 40 CFR Part 75.

## G. CONTINUOUS MONITOR INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

Continuous Monitoring System : Continuous Monitor 2

1. Parameter Code :	CO2
2. CMS Requirement :	RULE
3. Monitor Information :	Manufacturer : Thermo Environmental Model Number : 41H Serial Number :
4. Installation Date :	
5. Performance Specification Test Date :	
6. Continuous Monitor Comment :	Required by the Federal Acid Deposition Program - 40 CFR Part 75.

## H. PREVENTION OF SIGNIFICANT DETERIORATION (PSD) INCREMENT TRACKING INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

### PSD Increment Consumption Determination

#### 1. Increment Consuming for Particulate Matter or Sulfur Dioxide?

- ] The emissions unit is undergoing PSD review as part of this application, or has undergone PSD review previously, for particulate matter or sulfur dioxide. If so, emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after January 6, 1975. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after January 6, 1975, but before December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] For any facility, the emissions unit began (or will begin) initial operation after December 27, 1977. If so, baseline emissions are zero, and emissions unit consumes increment.
- ] None of the above apply. If so, the baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

2. Increment Consuming for Nitrogen Dioxide?

- ] The emissions unit addressed in this section is undergoing PSD review as part of this application, or has undergone PSD review previously, for nitrogen dioxide. If so, emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source pursuant to paragraph (c) of the definition of "major source of air pollution" in Chapter 62-213, F.A.C., and the emissions unit addressed in this section commenced (or will commence) construction after February 8, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] The facility addressed in this application is classified as an EPA major source, and the emissions unit began initial operation after February 8, 1988, but before March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] For any facility, the emissions unit began (or will begin) initial operation after March 28, 1988. If so, baseline emissions are zero, and emissions unit consumes increment.
  
- ] None of the above apply. If so, baseline emissions of the emissions unit are nonzero. In such case, additional analysis, beyond the scope of this application, is needed to determine whether changes in emissions have occurred (or will occur) after the baseline date that may consume or expand increment.

3. Increment Consuming/Expanding Code :		
PM :	C	
SO2 :	C	
NO2 :	U	
4. Baseline Emissions :		
PM :	lb/hour	tons/year
SO2 :	lb/hour	tons/year
NO2 :		tons/year
5. PSD Comment :		



## I. EMISSIONS UNIT SUPPLEMENTAL INFORMATION

Emissions Unit Information Section 37

Combustion Turbine with Heat Recovery Steam Generator

### Supplemental Requirements for All Applications

1. Process Flow Diagram :	II.D.3
2. Fuel Analysis or Specification :	III.I.2
3. Detailed Description of Control Equipment :	III.I.3
4. Description of Stack Sampling Facilities :	III.I.4
5. Compliance Test Report :	NA
6. Procedures for Startup and Shutdown :	III.I.6
7. Operation and Maintenance Plan :	NA
8. Supplemental Information for Construction Permit Application :	NA
9. Other Information Required by Rule or Statue :	NA

### Additional Supplemental Requirements for Category I Applications Only

10. Alternative Methods of Operations :	II.D.9
11. Alternative Modes of Operation (Emissions Trading) :	NA
12. Enhanced Monitoring Plan :	NA

III. Part 13 - 1

13. Identification of Additional Applicable Requirements :

Appendix A

14. Acid Rain Application (Hard-copy Required) :

III.I.14

Acid Rain Part - Phase II (Form No. 62-210.900(1)(a))

Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)

New Unit Exemption (Form No. 62-210.900(1)(a)2.)

Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)

Table A-20. Summary of Regulatory Applicability for the Walt Disney World Resort Complex NSA-CT/HRSG Emission Source (Page 1 of 5)

Regulation	Citation
<b>40 CFR Part 60 - Standards of Performance for New Stationary Sources</b>	
<i>Subpart A - General Provisions</i>	
Notification and Recordkeeping	§60.7(b) - (h)
Performance Tests	§60.8
Compliance with Standards	§60.11
Circumvention	§60.12
Monitoring Requirements	§60.13(a), (b), (i)
General notification and reporting requirements	§60.19
<i>Subpart Db - Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units</i>	
Standard for Nitrogen Oxides	§60.44b(j)
Standard for Nitrogen Oxides	§60.44b(k)
Reporting Requirements	§60.49b(a)
Recordkeeping Requirements	§60.49b(d), (o), and (p)
Reporting Requirements	§60.49b(q)
<i>40 CFR Part 60 Subpart GG - Standards of Performance for Stationary Gas Turbines</i>	
Standards for Nitrogen Oxides	§60.332(a)(1)
Standards for Sulfur Dioxide	§60.333
Monitoring Requirements	§60.334(a)
Monitoring Requirements	§60.334(b)
Test Methods and Procedures	§60.335
<b>40 CFR Part 72 - Acid Rain Program Permits</b>	
<i>Subpart A - Acid Rain Program General Provisions</i>	
Standard Requirements	§72.9, excluding (c)(3)(i),(ii), and (iv).
<i>Subpart B - Designated Representative</i>	
Designated Representative	§72.20 - §72.25

Table A-20. Summary of Regulatory Applicability for the Walt Disney World Resort Complex NSA-CT/HRSO Emission Source (Page 2 of 5)

Regulation	Citation
<i>Subpart C - Air Rain Application</i>	
Requirements to Apply	§72.30(a)
Requirements to Apply	§72.30(b)(2)(i)
Requirements to Apply	§72.30(c)
Requirements to Apply	§72.30(d)
Information Requirements for Acid Rain Permit Applications	§72.31
<i>Subpart D - Acid Rain Compliance Plan and Compliance Options</i>	
General	§72.40
<i>Subpart I - Compliance Certification</i>	
Annual Compliance Certification Report	§72.90
<b>40 CFR Part 75 - Continuous Emission Monitoring</b>	
<i>Subpart A - General</i>	
Compliance Dates	§75.4(a)(1)
Prohibitions	§75.5
<i>Subpart B - Monitoring Provisions</i>	
General Operating Requirements	§75.10
Specific Provisions for Monitoring SO <sub>2</sub> Emissions	§75.11(d)(2)
Specific Provisions for Monitoring NO <sub>x</sub> Emissions	§75.12(a),(b)
Specific Provisions for Monitoring CO <sub>2</sub> Emissions	§75.13(a)
Specific Provisions for Monitoring Opacity	§75.14(c), (d)
<i>Subpart C - Operation and Maintenance Requirements</i>	
Certification and Recertification Procedures	§75.20(a)
Certification and Recertification Procedures	§75.20(a)(1)
Certification and Recertification Procedures	§75.20(a)(2)

Table A-20. Summary of Regulatory Applicability for the Walt Disney World Resort Complex NSA-CT/HRSO Emission Source (Page 3 of 5)

Regulation	Citation
Certification and Recertification Procedures	§75.20(a)(5)
Certification and Recertification Procedures	§75.20(c)(1), (4), (7), (8), (9)
Quality Assurance and Quality Control Requirements	§75.21(a) and (c)
Reference Test Methods	§75.22
Out-Of-Control Periods	§75.24
<i>Subpart D - Missing Data Substitution Procedures</i>	
General Provisions	§75.30
Initial Missing Data Procedures	§75.31(a) and (c)
Determination of Monitor Data Availability for Standard Missing Data Procedures	§75.32
Standard Missing Data Procedures	§75.33(a) and (c)
<i>Subpart E - Alternative Monitoring Systems</i>	
Alternative Monitoring Systems	§75.40 - 75.48
<i>Subpart F - Recordkeeping Requirements</i>	
General Recordkeeping Provisions	§75.50(a), (b), (d), (e)
Specific Recordkeeping Provisions	§75.51(c)
Certification, Quality Assurance, and Quality Control Record Provisions	§75.52(a)(1),(3),(5),(6), (7)
Monitoring Plan	§75.53(a) - (c), (d)(1)
<i>Subpart G - Reporting Requirements</i>	
General Provisions	§75.60
Notification of Certification and Recertification Test Dates	§75.61
Certification or Recertification Application	§75.63
Quarterly Reports	§75.64(a)(1) - (5)
Quarterly Reports	§75.64(c), (d)

Table A-20. Summary of Regulatory Applicability for the Walt Disney World Resort Complex NSA-CT/HRSG Emission Source (Page 4 of 5)

Regulation	Citation
<b>40 CFR Part 77 - Excess Emissions</b>	
Offset Plans for Excess Emissions of Sulfur Dioxide	§77.3
Deduction of Allowances to Offset Excess Emissions of Sulfur Dioxide	§77.5(b)
Penalties for Excess Emissions of Sulfur Dioxide and Nitrogen Oxides	§77.6
<b>40 CFR Part 78 - Appeal Procedures for Acid Rain Program</b>	
Appeal Procedures	§78.1 - 78.20
<b>Chapter 62-210, F.A.C. — Stationary Sources—General Requirements</b>	
Annual Operating Report for Air Pollutant Emitting Facility	§62-210.370(2), F.A.C.
Stack Height Policy	62-210.550, F.A.C.
<b>Chapter 62-213, F.A.C. — Operation Permits for Major Sources of Air Pollution</b>	
Applications	§62-214.320, F.A.C.
Acid Rain Compliance Plan and Compliance Options	§62-214.330, F.A.C.
Exemptions	§62-214.340, F.A.C.
Certification	§62-214.350, F.A.C.
Revisions and Administrative Corrections	§62-214.370, F.A.C.
Acid Rain Part Content	§62-214.420, F.A.C.
Implementation and Termination of Compliance Options	§62-214.430, F.A.C.
<b>Chapter 62-296 — Stationary Source—Emission Standards</b>	
Fossil Fuel Fired Steam Generators with Less Than 250 MMBtu/hr Heat Input, New and Existing Unit	§62-296.406, F.A.C.
Standards of Performance for New Stationary Sources (NSPS)	§62-296.800, F.A.C.
<b>Chapter 62-297 — Stationary Sources—Emissions Monitoring</b>	
General Compliance Test Requirements	§62-297.310, F.A.C.
Compliance Test Methods	§62-297.401, F.A.C.

Table A-20. Summary of Regulatory Applicability for the Walt Disney World Resort Complex NSA-CT/HRSG Emission Source (Page 5 of 5)

Regulation	Citation
<b>Operating and Construction Permits</b>	
	AO48-170280

Source: ECT, 1996.

**DOCUMENT II.D.9**

**ALTERNATIVE METHODS OF OPERATION  
(DOCUMENT II.E.9—MARCH 1996 REVISED FORM)**



Alternative Methods of Operation

A. Combustion Turbine (CT) and Duct Burners (DB)  
North Service Area (Central Energy Plant)

Method No.	Equipment	Fuel Type	Heat Input Range (MMBtu/hr)	Maximum Operating Hours		
				(Hrs/Dy)	(Dys/Wk)	(Hrs/Yr)
1	CT + DB	Natural Gas	0 - 450.0	24	7	8,760
2	CT	Natural Gas	0 - 427.0	24	7	8,760
3	CT	No. 2 Oil	0 - 427.0	24	7	336
4	DB	Natural Gas	0 - 198.0	24	7	*

\* 10 percent capacity factor:

$$[\text{Heat Input (\%)} / 100] * (\text{Annual Operating Hours}) \leq 876 \text{ hrs/yr}$$

where:

$$\text{Heat Input (\%)} = \frac{[\text{Average actual annual heat input (MMBtu/hr)}]}{[\text{Maximum heat input (MMBtu/hr)}]} * 100$$

$$\text{Maximum Heat Input} = 198 \text{ MMBtu/hr}$$

**Subsection A. This section addresses the following emissions units.**

**E.U. ID No. Brief Description**

-088 Combined Cycle Combustion Turbine with Natural Gas-Fired Heat Recovery  
Steam Generator

This emissions unit is a combined cycle combustion turbine (CT) system followed by a natural gas-fired duct burner and a heat recovery steam generator (HRSG). It consists of a GE LM 5000 combustion turbine which powers a 38 MW (nominal rating) generator. Nitrogen oxide (NO<sub>x</sub>) emissions are controlled by the use of water injection. The HRSG provides steam to power a nominal 8.5 MW steam turbine. The CT can be fired either by natural gas or No. 2 fuel oil. The duct burner can only be fired by natural gas. The compressor inlet air will be conditioned by an evaporative cooler (cooling tower) when needed. The CT will be started by the use of a Black Start Cummings No. 2 fuel oil fired emergency electric generator (which is exempt from permitting requirements).

The existing emissions unit is currently involved in a modification, authorized by construction permit 0950111-002-AC, which will consist of replacing the existing combusters in the CT with extended venturi combusters. This modification will reduce the frequency of combustor maintenance and replacement, but will increase the formation of carbon monoxide (CO). In order to avoid a significant increase in CO emissions, a catalytic oxidation unit will be placed into service in the ductwork directly following the CT, providing a CO removal efficiency of about 80%. The resultant net increase in CO emissions is still below the previously established CO emissions limits of 25 lbs/hr and 110 tons per year.

{Permitting notes: The emissions unit is regulated under NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, and Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, adopted and incorporated by reference in Rules 62-204.800(7)(b)38. & 62-204.800(7)(b)3., F.A.C., respectively; and, PSD-FL-123, Prevention of Significant Deterioration (PSD), in Rule 62-212.400, F.A.C. Stack height: 65 feet, exit diameter: 11.1 feet, exit temperature: 285 °F, and, actual volumetric flow rate: 301,777 acfm. This unit began commercial operation }

**The following specific conditions apply to the emissions units listed above:**

**A.0.** This emissions unit is currently authorized to operate under the conditions of the attached permit 0950111-001-AC. After the modifications authorized by AC permit 0950111-002-AC (also attached) have been completed and the testing and reporting requirements contained in 40 CFR 60.8 have been satisfied, the following operating conditions will apply:  
[Rule 62-213.440, F.A.C.; and, 40 CFR 60.8.]

**Essential Potential to Emit (PTE) Parameters**

**General**

**A.1. Definitions.** For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee.  
[40 CFR 60.2; Rule 62-204.800(7)(a), F.A.C.]

**A.2. Circumvention.** No owner or operator subject to the provisions of 40 CFR 60 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

[40 CFR 60.12]

**A.3. Modifications.** The permittee shall give written notification to the Department when there is any modification to this facility. This notice shall be submitted sufficiently in advance of any critical date involved to allow sufficient time for review, discussion, and revision of plans, if necessary. Such notice shall include, but not be limited to, information describing the precise nature of the change; modifications to any emission control system; production capacity of the facility before and after the change; and the anticipated completion date of the change.

[40 CFR 60.14; and, 0950111-001-AC.]

### Essential Potential to Emit (PTE) Parameters

**A.4. Permitted Capacity.** The maximum heat input to the Combustion Turbine (CT) and the duct burner, combined, shall not exceed 450 MMBtu/hr, with the normal duct burner heat input rate contribution of 23 MMBtu/hr. When the CT is not in operation, the duct burner heat input rate shall not exceed 198 MMBtu/hr.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); PSD-FL-014 & PSD-FL-014(A); and, 0950111-001-AC.]

**A.5. Emissions Unit Operating Rate Limitation After Testing.** See specific condition A.47.

[Rule 62-297.310(2), F.A.C.]

### A.6. Methods of Operation - Fuels.

a. Natural gas shall be the primary fuel fired in the CT and duct burner system. New No. 2 distillate fuel oil may be fired as "back-up" fuel in the CT, only. Only natural gas shall be fired in the duct burner. The burning of other fuels requires review, public notice, and approval through the preconstruction process (Chapters 62-210 and 62-212, F.A.C.).

b. New No. 2 distillate fuel oil can be used as a backup fuel in the CT, only, for up to <sup>336 hrs/yr</sup> 14 days per year.

[Rule 62-213.410, F.A.C.; AC61-11862, -11863 & -11864; and, 0950111-001-AC.]

**A.7. Hours of Operation.** This emissions unit may operate continuously, i.e., 8760 hours per year.

[Rule 62-210.200(PTE), F.A.C.; 0950111-001-AC; and, PSD-FL-123.]

### Emission Limitations and Standards

{Permitting note: Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit. **The following emissions limits apply to the CT and the duct burner, combined.**}

**A.8. Nitrogen Oxides:** Nitrogen oxides emissions, expressed as NO<sub>x</sub>, shall not exceed 82 ppmv by volume at 15 percent oxygen and on a dry basis (132 lbs/hr) during conditions of peak loading (based on 40°F), or, 68 ppmv by volume at 15 percent oxygen and on a dry basis (100 lbs/hr) for a 12-month rolling average, or 17 tons per year, while burning new No. 2 distillate fuel oil. The 12-month rolling average emissions will be calculated using hourly averages during the month and then using consecutive monthly averages to obtain an annual average. The Department may alter this averaging method after due consideration of alternative compliance plans →

[0950111-002-AC]

**A.9. Nitrogen Oxides:** Nitrogen oxides emissions, expressed as NO<sub>x</sub>, shall not exceed 74 ppmv by volume at 15 percent oxygen and on a dry basis (112 lbs/hr) during conditions of peak loading (based on 40°F), or, 58 ppmv by volume at 15 percent oxygen and on a dry basis (77 lbs/hr) for a 12-month rolling average, or 280 tons per year, while burning natural gas. The 2-month rolling average emissions will be calculated using hourly averages during the month and then using consecutive monthly averages to obtain an annual average. The Department may alter this averaging method after due consideration of alternative compliance plans. The duct burner NO<sub>x</sub> emissions shall not exceed (corresponding to 0.2 lb/MMBtu) 4.6 lbs/hr at 23 MMBtu/hr heat input or 40 lbs/hr at 198 MMBtu/hr heat input.

[40 CFR 60.44b(a); and, 0950111-002-AC]

**A.10. Nitrogen Oxides:** Nitrogen oxides from the CT shall be controlled by water injection at a minimum of 0.6/1.0 water-to-fuel ratio. **(Reedy Creek Improvement District (RCID) will provide data from compliance tests in order to allow the Department to set a final water injection-to-fuel ratio in order to optimize pollution control and meet the permitted emission limits.)**

[0950111-002-AC]

**A.11. Sulfur Dioxide:** Sulfur dioxide emissions shall not exceed 58 ppmv by volume at 15 percent oxygen and on a dry basis. The maximum allowed sulfur dioxide emissions shall not exceed 118 lbs/hr or 20 tons per year, while burning new No.2 distillate fuel oil.

[40 CFR 60.333(a); and, 0950111-001-AC.]

**A.12. Sulfur Dioxide:** The maximum allowed sulfur dioxide emissions shall not exceed 1.2 lbs/hr or 5.1 tons per year, while burning natural gas.

[0950111-001-AC.]

**A.13. Sulfur Dioxide - Sulfur Content:** The sulfur content of the fuel oil fired by the stationary gas turbine may be used to determine compliance with 40 CFR 60.333(a). Under such circumstances, the permittee shall not fire in any stationary gas turbine any fuel which contains a sulfur content in excess of 0.4 percent, by weight.

[40 CFR 60.333(b); and, 0950111-001-AC.]

**A.14. Particulate Matter:** Particulate matter shall not exceed 9 lbs/hr or 2 tons per year, while burning new No.2 distillate fuel oil.

[0950111-001-AC]

**A.15. Particulate Matter:** Particulate matter shall not exceed 0.8 lbs/hr or 3.5 tons per year, while burning natural gas.

[0950111-001-AC]

**A.16. Carbon Monoxide:** Carbon monoxide emissions shall not exceed 24 lbs/hr or 4 tons per year, while burning new No. 2 distillate fuel oil.

[0950111-002-AC]

**A.17. Carbon Monoxide:** Carbon monoxide emissions shall not exceed 25 lbs/hr or 110 tons per year, while burning natural gas.

[0950111-002-AC]

**A.18. Volatile Organic Compounds (VOCs):** VOC emissions shall not exceed 6 lbs/hr or 26 tons per year, while burning new No. 2 distillate fuel oil.

[0950111-001-AC]

**A.19. Volatile Organic Compounds (VOCs):** VOC emissions shall not exceed 6 lbs/hr or 1 ton per year, while burning natural gas.

[0950111-001-AC]

**A.20. Visible Emissions:** Visible emissions shall not exceed 10 percent opacity while burning new No. 2 distillate fuel oil.

[0950111-002-AC]

**A.21. Visible Emissions:** Visible emissions shall not exceed 5 percent opacity while burning natural gas.

[0950111-002-AC]

### **Excess Emissions**

**A.22.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration.

[Rule 62-210.700(1), F.A.C.]

**A.23.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.]

**A.24.** At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

**A.25.** For the purpose of reports required under 40 CFR 60.7(c), periods of excess emissions that shall be reported are defined as follows:

(1). *Nitrogen oxides.* Any one-hour period during which the average water-to-fuel ratio, as measured by the continuous monitoring system, falls below the water-to-fuel ratio determined to demonstrate compliance with 40 CFR 60.332 by the performance test required in 40 CFR 60.8 or any period during which the fuel-bound nitrogen of the fuel is greater than the maximum nitrogen content allowed by the fuel-bound nitrogen allowance used during the performance test required in 40 CFR 60.8. Each report shall include the average water-to-fuel ratio, average fuel consumption, ambient conditions, gas turbine load, and nitrogen content of the fuel during the period of excess emissions, and the graphs or figures developed under 40 CFR 60.335(a).

[40 CFR 60.334(c)(1)]

### **Monitoring of Operations**

**A.26.** At all times, including periods of startup, shutdown and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

**A.27.** The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG, and using water injection to control NO<sub>x</sub> emissions shall install and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water to fuel being fired in the turbine. This system shall be accurate to within  $\pm 5.0$  percent and shall be approved by the Administrator. *A continuous emissions*

[40 CFR 60.334(a)] *monitor is not required for heat recovery steam generator.*  
*and, 40 CFR 60.486(h)]*

**A.28.** The following custom fuel monitoring schedule shall be used at this facility:

#### **Custom Fuel Monitoring Schedule for Natural Gas**

- 1) Monitoring of fuel nitrogen content shall not be required while natural gas is the only fuel being fired in the gas turbine (CT).
- 2) Sulfur Monitoring:
  - a) Analysis for sulfur content of the natural gas shall be conducted using one of the approved ASTM reference methods for the measurement of sulfur in gaseous fuels, or an approved alternative method. The approved methods are ASTM D1072-80, ASTM D3030-81, ASTM D3246-83, and ASTM D4084-82 as referenced in 40 CFR 60.335(b)(2), or the latest edition(s).
  - b) Effective the date of this custom schedule, sulfur monitoring shall be conducted at least once per calendar quarter. Sulfur analyses results shall be reported in units of grains of sulfur per 100 cubic feet of natural gas and shall be submitted with the quarterly excess emissions report required by 40 CFR 60.7. (EPA's letter dated June 15, 1994).
  - c) The sulfur content of the fuel shall also be expressed as maximum sulfur dioxide emissions (lb/hr) and shall be consistent with the limits specified in Specific Condition 5 of permit AC48-137740 (specific conditions **A.11 & A.12.** of this permit).
  - d) Should any sulfur analysis as required in items 2(b), above, indicate noncompliance with 40 CFR 60.333, the owner or operator shall notify the Department of such excess emissions and the custom schedule shall be re-examined. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 3) If there is a change in fuel supply, the owner or operator must notify the Department of such change for re-examination of this custom schedule. A substantial change in fuel quality shall be considered as a change in fuel supply. Sulfur monitoring shall be conducted weekly during the interim period when this custom schedule is being re-examined.
- 4) Records of sample analysis and fuel supply pertinent to this custom schedule shall be retained for a period of (five) years, and be available for inspection by personnel of federal, state, and local air pollution control agencies.

#### **Custom Fuel Monitoring Schedule for Liquid Fuel**

- 1) Sulfur and nitrogen content of the liquid fuel:

Upon delivery of the fuel, a sample shall be randomly taken from one compartment of each truck and composited for analysis (for verification of the vendor data) by a third party laboratory using, ASTM Method D-3228 for nitrogen analysis, and ASTM Method D-4294 for sulfur analysis.

[40 CFR 60.334(b)(2); and, AC48-137740 & PSD-FL-123 as modified on October 11, 1994.]

**A.29.** The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG shall monitor sulfur content and nitrogen content of the fuel being fired in the turbine. The frequency of determination of these values shall be as follows:

(1) If the turbine is supplied its fuel from a bulk storage tank, the values shall be determined on each occasion that fuel is transferred to the storage tank from any other source.

(2) If the turbine is supplied its fuel without intermediate bulk storage, the values shall be determined and recorded daily. Owners, operators or fuel vendors may develop custom schedules for determination of the values based on the design and operation of the affected facility and the characteristics of the fuel supply. These custom schedules shall be substantiated with data and must be approved by the Administrator before they can be used to comply with 40 CFR 60.334(b).

[40 CFR 60.334(b)(1) & (2)]

**A.30. Determination of Process Variables.**

(a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.

(b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

**Continuous Monitoring Requirements**

**A.31.** For the purposes of 40 CFR 60.13, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of 40 CFR 60.13 upon promulgation of performance specifications for continuous monitoring systems under Appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, Appendix F of 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987.

[40 CFR 60.13(a)]

**A.32.** All continuous monitoring systems (CMS) or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. Additional procedures for location of continuous monitoring systems contained in the applicable Performance Specifications of Appendix B of 40 CFR 60 shall be used.

[40 CFR 60.13(f)]

**Test Methods and Procedures**

{Permitting note: Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

**A.33.** Subsequent to the initial test, annual stack testing for CO emissions at full capacity load conditions shall be performed according to an annual test protocol developed jointly by RCID and FDEP. This protocol will specify the test methods and procedures to be used during the annual compliance testing. Using the established procedures of this protocol as a guide, simultaneous testing full capacity load conditions shall be conducted for CO, NO<sub>x</sub> and VE. EPA Method 10 shall be used for CO, EPA Methods 7e or 20 shall be used for NO<sub>x</sub> and EPA Method 9 shall be used for VE. Testing at other loads will not be necessary if the unit is shown to be in compliance with the applicable emission standards for NO<sub>x</sub> and CO.  
[40 CFR 60.44b(a); and, 0950111-001-AC & 0950111-002-AC]

**A.34. Nitrogen Oxides.** To compute the nitrogen oxides emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Department to determine the nitrogen content of the fuel being fired.  
[40 CFR 60.335(a)]

**A.35. Nitrogen Oxides.** The owner or operator shall determine compliance with the nitrogen oxides standard in 40 CFR 60.332 as follows:

(1) The nitrogen oxides emission rate (NO<sub>x</sub>) shall be computed for each run using the following equation:

$$NO_x = (NO_{x0}) (P_r/P_o)^{0.5} e^{19(H_o-0.00633)} (288^\circ K/T_a)^{1.53}$$

where:

NO<sub>x</sub> = emission rate of NO<sub>x</sub> at 15 percent O<sub>2</sub> and ISO standard ambient conditions, volume percent.

NO<sub>x0</sub> = observed NO<sub>x</sub> concentration, ppm by volume.

P<sub>r</sub> = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.

P<sub>o</sub> = observed combustor inlet absolute pressure at test, mm Hg.

H<sub>o</sub> = observed humidity of ambient air, g H<sub>2</sub>O/g air.

e = transcendental constant, 2.718.

T<sub>a</sub> = ambient temperature, °K.

[40 CFR 60.335(c)(1)]

**A.36.** The monitoring device of 40 CFR 60.334(a) shall be used to determine the fuel consumption and the water-to-fuel ratio necessary to comply with the permitted NO<sub>x</sub> standard at 30, 50, 75, and 100 percent of peak load or at four points in the normal operating range of the gas turbine, including the minimum point in the range and peak load. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer.

[40 CFR 60.335(c)(2)]

**A.37. Nitrogen Oxides and Sulfur Dioxide.** The owner or operator shall determine compliance with the nitrogen oxides and sulfur dioxide standards in 40 CFR 60.332 and 60.333(a) as follows:

(3). EPA Method 20 (40 CFR 60, Appendix A) shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The NO<sub>x</sub> emissions shall be determined at each of the load conditions specified in 40 CFR 60.335(c)(2).

[40 CFR 60.335(c)(3)]

**A.38. Sulfur Dioxide - Sulfur Content.** The owner or operator shall determine compliance with the sulfur content standard of 0.4 percent, by weight, as follows: ASTM D 2880-96, or the latest edition, shall be used to



determine the sulfur content of liquid fuels and ASTM D 1072-90(94)E-1, D 3031-81(86), D 4084-94, D 3246-92, or the latest edition, shall be used for the sulfur content of gaseous fuels (incorporated by reference-see 40 CFR 60.17). The applicable ranges of some ASTM methods mentioned above are not adequate to measure the levels of sulfur in some fuel gases. Dilution of samples before analysis (with verification of the dilution ratio) may be used, subject to the approval of the Administrator.

[40 CFR 60.335(d)]

**A.39. Nitrogen and Sulfur Contents.** To meet the requirements of 40 CFR 60.334(b), the owner or operator shall use the methods specified in 40 CFR 60.335(a) and 40 CFR 60.335(d) of 40 CFR 60.335 to determine the nitrogen and sulfur contents of the fuel being burned. The analysis may be performed by the owner or operator, a service contractor retained by the owner or operator, the fuel vendor, or any other qualified agency.

[40 CFR 60.335(e)]

**A.440. Carbon Monoxide.** EPA Method 10 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the carbon monoxide standards in specific conditions **A.16. & A.17.**

**A.41. Visible Emissions.** EPA Method 9 pursuant to Chapter 62-297, F.A.C., and 40 CFR 60, Appendix A, shall be used to determine compliance with the visible emissions standard in specific conditions **A.20. & A.21.**

[Rule 62-297.401, F.A.C.; and, 40 CFR 60, Appendix A]

**A.42. Opacity.** Compliance with standards in 40 CFR 60, other than opacity standards, shall be determined only by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

[40 CFR 60.11(a)]

**A.43.** Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

[40 CFR 60.8(c)]

**A.44.** The owner or operator shall provide, or cause to be provided, stack sampling and performance testing facilities as follows:

- (1) Sampling ports adequate for test methods applicable to such facilities.
- (2) Safe sampling platform(s).
- (3) Safe access to sampling platform(s).
- (4) Utilities for sampling and testing equipment.

[40 CFR 60.8(e)(1), (2), (3) & (4); and, PSD-FL-014]

**A.45. Required Stack Sampling Facilities.** When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit.

[Rule 62-297.310(6), F.A.C.]

**A.46. Required Number of Test Runs.** For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three

complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

**A.47. Operating Rate During Testing.** Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2), F.A.C.]

**A.48. Calculation of Emission Rate.** The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule.

[Rule 62-297.310(3), F.A.C.]

**F.49. Applicable Test Procedures.**

(a) Required Sampling Time.

1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
2. **Opacity Compliance Tests.** When either EPA Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
  - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

(b) Minimum Sample Volume. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.

(d) Calibration of Sampling Equipment. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1.

TABLE 297.310-1  
CALIBRATION SCHEDULE

<u>ITEM</u>	<u>MINIMUM CALIBRATION FREQUENCY</u>	<u>REFERENCE INSTRUMENT</u>	<u>TOLERANCE</u>
Liquid in glass thermometer	Annually	ASTM Hg in glass ref. thermometer or equivalent, or thermometric points	+/-2%
Bimetallic thermometer	Quarterly	Calib. liq. in glass thermometer	5 degrees F
Thermocouple	Annually	ASTM Hg in glass ref. thermometer, NBS calibrated reference and potentiometer	5 degrees F
Barometer	Monthly	Hg barometer or NOAA station	+/-1% scale
Pitot Tube	When required or when damaged	By construction or measurements in wind tunnel D greater than 16" and standard pitot tube	See EPA Method 2, Fig. 2-2 & 2-3
Probe Nozzles	Before each test or when nicked, dented, or corroded	Micrometer	+/-0.001" mean of at least three readings Max. deviation between readings .004"
Dry Gas Meter and Orifice Meter	1. Full Scale: When received, When 5% change observed, Annually 2. One Point: Semiannually 3. Check after each test series	Spirometer or calibrated wet test or dry gas test meter	2%
		Comparison check	5%

[Rule 62-297.310(4), F.A.C.]

**F.50. Frequency of Compliance Tests.** The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.

(a) General Compliance Testing.

3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
  - a. Did not operate; or,
  - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
4. During each federal fiscal year (October 1 - September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
  - a. Visible emissions, if there is an applicable standard;
  - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and,
  - c. Each NESHAP pollutant, if there is an applicable emission standard.
8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

(c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply.

[Rule 62-297.310(7), F.A.C.; and, SIP approved.]

**A.51.** By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:

- a. only gaseous fuel(s); or
- b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or,
- c. only liquid fuel(s) for less than 400 hours per year.

[Rule 62-297.310(7)(a)4., F.A.C.]

## **Recordkeeping and Reporting Requirements**

**A.52.** To determine compliance with the oil firing heat input limitation, the permittee shall maintain daily records of fuel oil consumption and hourly usage for each turbine and heating value for each fuel. All records shall be maintained for a minimum of five (5) years after the date of each record and shall be made available to representatives of the Department upon request.

[Rule 62-213.440, F.A.C.]

**A.53.** The owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification as follows:

(4) A notification of any physical or operational change to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

[40 CFR 60.7(a)(4)]

**A.54.** The owner or operator subject to the provisions of 40 CFR 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or, any periods during which a continuous monitoring system or monitoring device is inoperative.

[40 CFR 60.7(b)]

**A.55.** The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report and/or a summary report form [see 40 CFR 60.7(d)] to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or, the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or, the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:

(1) The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h), any conversion factor(s) used, and the date and time of commencement and completion of each time period of excess emissions. The process operating time during the reporting period.

(2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.

(3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.

(4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report.

[40 CFR 60.7(c)(1), (2), (3), and (4)]

**A.56.** The summary report form shall contain the information and be in the format shown in Figure 1 (attached) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted.

[40 CFR 60.7(d)(1) and (2)]

*{See attached Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance} (electronic file name: figure1.doc)*

**A.57.** (1) Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:

(i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;

(ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60, Subpart A, and the applicable standard; and,

(iii) The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2).(2) The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days; approval is automatically granted.

(3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) and (e)(2).

[40 CFR 60.7(e)(1)]

**A.58.** The owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and, all other

information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least **5 (five)** years following the date of such measurements, maintenance, reports, and records.

[40 CFR 60.7(f); Rule 62-213.440(1)(b)2.b., F.A.C.]

**A.59.** In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department.

[Rule 62-210.700(6), F.A.C.]

**A.60. Test Reports.**

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the following information:
  1. The type, location, and designation of the emissions unit tested.
  2. The facility at which the emissions unit is located.
  3. The owner or operator of the emissions unit.
  4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
  5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
  6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
  7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
  8. The date, starting time and duration of each sampling run.
  9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
  10. The number of points sampled and configuration and location of the sampling plane.
  11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
  12. The type, manufacturer and configuration of the sampling equipment used.
  13. Data related to the required calibration of the test equipment.
  14. Data on the identification, processing and weights of all filters used.
  15. Data on the types and amounts of any chemical solutions used.
  16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
  17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
  18. All measured and calculated data required to be determined by each applicable test procedure for each run.
  19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
  20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

**A.61.** In each compliance test report, submit the maximum input/production rate at which each emissions unit was operated since the most recent compliance test.

[Rule 62-213.440, F.A.C.]

**A.62.** Reports under 40 CFR 60.7(c) are required for periods of NO<sub>x</sub> excess emissions, which are defined in specific condition **A.25**.

[40 CFR 60.334(c)(1)]

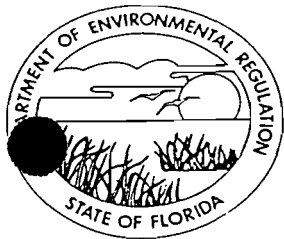
**A.63.** Submit a quarterly report for each emissions unit for the following within 30 days at the end of each quarter:

a. Total hours of operation.

b. Per 40 CFR 60.334(c)(1) for NO<sub>x</sub>, any one hour period in which the water to fuel ratio falls below 0.6/1.0.

[Rule 62-213.400, F.A.C.; and, 0950111-002-AC.]





# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-1070

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)  
Permit No. AO48-224513  
Change of Conditions

Dear Mr. Moses:

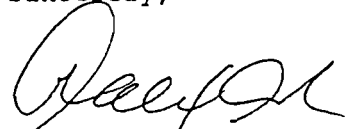
We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

<u>Condition</u>	<u>FROM</u>	<u>TO</u>
Permitee	H. Robert Kohl, Director Reedy Creek Energy Services, Incorporated Post Office Box 10,000 Lake Buena Vista, FL 32830-1000	Thomas M. Moses, District Administrator Reedy Creek Improvement District Post Office Box 10,170 Lake Buena Vista, FL 32830-1070
Specific Condition No. 5	... for one hour at yearly intervals ...	... for thirty minutes at yearly intervals ...

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*CMC*  
  
A. Alexander, P.E.  
District Director

Date 6/5/93

AA/jtt

Copies furnished to:



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: Robert H. Penn, Director of  
Environmental Affairs

Permit Number: AC49-236247  
Date of Issue:  
Expiration Date: November 30, 1998  
County: Osceola  
Latitude/Longitude:  
28°21'00"N/81°34'00"W  
Project: All Star Resort Boilers

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee may construct eighty natural gas fired boilers and hot water generators. The location, size, description, and use of each combustion unit is described in Appendix A of the application.

This source is located at 3499 West Buena Vista Drive, Kissimmee, Osceola County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Walt Disney World Company

Permit Number: AC49-236247  
Expiration Date: November 30, 1998

Attention: Robert H. Penn, Director of  
Environmental Affairs

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS**

OPERATING CONDITIONS

1. Each combustion unit is permitted to operate continuously.
2. Each combustion unit will be fired with natural gas or propane only.
3. The maximum permitted heat input rate for the eighty combustion units, which are described in Appendix A of the application, is 925,000 MMBtu/year.

EMISSION LIMIT

4. The emission limitation for this combustion unit is set forth in Rule 17-296.406, F.A.C.

COMPLIANCE TESTING

5. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DEP Form 17-210.900(4) for the preceding calendar year.

EXPIRATION DATE

6. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit. (Rule 17-4.09 Florida Administrative Code).

The permittee must notify the Department in writing of the startup date for any source covered by this permit. This notification must be addressed to the Permitting Section and received no later than 15 days after startup.

An operating permit is required for operation of this facility. To obtain an operating permit, the permittee must demonstrate compliance with the conditions of the construction permit and submit the application fee, along with compliance test results and Certification of Completion of Construction to the Department's Central Florida District office 60 days prior to the expiration date of the construction permit.

PERMITTEE:  
Walt Disney World Company

Permit Number: AC49-236247  
Expiration Date: November 30, 1998

Attention: Robert H. Penn, Director of  
Environmental Affairs

**SPECIFIC CONDITIONS**  
(Continued)

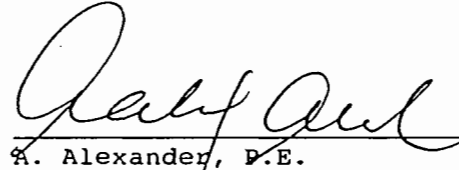
This permit will expire November 30, 1998 or six months after the facility is placed in operation, whichever occurs first.

ISSUED

10-14-93

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

CMC



A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
CENTRAL DISTRICT  
3319 MAGUIRE BOULEVARD, SUITE 232  
ORLANDO, FLORIDA 32803-3767

ROUTING AND TRANSMITTAL FORM

---

TO: (NAME, OFFICE, LOCATION)

Bruce Mitchell, ENV ADM

ARM BAR TL MAGNO MS 5505

---

FROM: Theresa Bouldin  
Air Resources Management  
Permitting  
Central District  
Florida Department of  
Environmental Protection

PHONE: SunCom 325-3334  
(407) 893-3334

DATE: August 25, 1997



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

## NOTICE OF PERMIT

CERTIFIED MAIL  
P 173 655 806

Walt Disney World Company  
Post Office Box 10000  
Lake Buena Vista, Florida 32830-1000

Attention: William A. O'Toole,  
Senior Vice President

Orange County - AP  
Seven Boilers, One Hot Water Generator,  
and One Solid Waste Dryer (Animal Kingdom)

Dear Mr. O'Toole:

Enclosed is Permit Number 0950111-011-AC to construct the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

L.T. Kozlov, P.E.  
Program Administrator  
Air Resources Management

Date:

8-25-97

**RECEIVED**

SEP 02 1997

BUREAU OF  
AIR REGULATION

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

FILING AND ACKNOWLEDGEMENT FILED, on this date, pursuant to §120.52(11), Florida Statutes, with the designated Department Clerk, receipt of which is hereby acknowledged.

af

LTK/jtt

Dina Jones  
Clerk

Aug. 25 1997  
Date

Copies furnished to:

Bruce Mitchell ✓

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on August 25, 1997 to the listed persons, by Theresa Bouldi.



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Permittee:  
Walt Disney World Company  
Post Office Box 10000  
Lake Buena Vista, Florida 32830-1000

Atten: William A. O'Toole,  
Senior Vice President

I.D. Number: 0950111  
Permit Number: 0950111-011-AC  
Expiration Date: July 30, 2002  
County: Orange  
Latitude/Longitude:  
28° 21' 51"N/81° 35' 52"W  
UTM: 17-442.1 KmE; 3137.3 KmN  
Project: Seven Boilers, One Hot Water  
Generator, and One Solid Waste  
Dryer (Animal Kingdom)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct the following emission units:

<u>I.D. #</u>	<u>EMISSION UNIT</u>	<u>MANUFACTURER</u>	<u>MODEL</u>
103	Conservation Station Boiler	Teledyne-Laars	2450
104	Africa Support Building Boiler	Teledyne-Laars	1825
105	Cast Cafe [1.8] Boiler	Lochinvar	CHN-1800
106	Tusker House Boiler	Ajax Boiler, Inc.	WNG-1750-DMR
107	Restaurantosaurus Boiler	Teledyne-Laars	Mighty Therm 1670
108	Countdown to Extinction Boiler	Ajax	WNG-1500-DMR



Permittee:  
Walt Disney World Company  
  
Atten: William A. O'Toole,  
Senior Vice President

I.D. Number: 0950111  
Permit Number: 0950111-011-AC  
Expiration Date: July 30, 2002  
County: Orange

● 109	Cast Cafe [1.26] Hot Water Generator	Lochinvar	CFW-1260
● 110	Safari Fare Boiler	Teledyne-Laars	HH-1200
● 111	Compost Facility Lundell Solid Waste Dryer	Eclipse Combustion	AH-160

● The boilers and hot water generator are located at the Animal Kingdom theme park area and the solid waste dryer is located at the Reedy Creek Energy Services Compost Facility, both at Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

Permittee:  
Walt Disney World Company  
  
Atten: William A. O'Toole,  
Senior Vice President

I.D. Number: 0950111  
Permit Number: 0950111-011-AC  
Expiration Date: July 30, 2002  
County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

- 1. Each emission unit is permitted to operate continuously.  
[Rule 62-210.200, (PTE) F.A.C. and construction application received June 10, 1997.]
- 2. Each emission unit is fired with natural gas only except the solid waste dryer which is fired by propane only. The maximum fuel usage rates are as follows:

<u>EMISSION UNIT</u>	<u>MMcft per consecutive twelve months (nat. gas)</u>
Conservation Station Boiler	21.5
Africa Support Building Boiler	16.0
Cast Cafe [1.8] Boiler	15.8
Tusker House Boiler	15.3
Restaurantaurus Boiler	14.6
Countdown to Extinction Boiler	13.1
Cast Cafe [1.26] Hot Water Generator	11.0
Safari Fare Boiler	10.5
Compost Facility Lundell Solid Waste Dryer	383 Thousand Gallons per consecutive twelve months (propane)

[Rule 62-210.200, (PTE) F.A.C., and construction application received June 10, 1997].

EMISSION LIMITS

- 3. The visible emissions limitation for each steam boiler is limited to up to 20% opacity, except for one 6-minute period per hour during which opacity shall not exceed 27% [Rule 62-296.406(1), F.A.C.].
- 4. The visible emission limitation for the hot water generator and solid waste dryer is limited to less than 20% opacity [Rule 62-296.320(4)(b)1., F.A.C.].
- 5. BACT Determined by DEP:  
The amount of particulate and sulfur dioxide emissions from each boiler shall be limited by the firing of natural gas.  
[Rule 62-296.406(2) and (3), F.A.C.]

Permittee:  
Walt Disney World Company  
  
Atten: William A. O'Toole,  
Senior Vice President

I.D. Number: 0950111  
Permit Number: 0950111-011-AC  
Expiration Date: July 30, 2002  
County: Orange

COMPLIANCE TESTING

6. Each emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.] within 30 days after being placed in operation. The test shall last sixty minutes for each boiler and thirty minutes for the other emission units.
7. At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the air compliance section of this office. The notification must include the following information: the date, time and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and telephone number of the person conducting the test.  
[Rule 62-297.310(7)(a)9, F.A.C.]
8. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.  
[Rule 62-297.310(2), F.A.C.]
9. Reports of the required compliance tests shall be filed with the air compliance section of this office as soon as practical but no later than 45 days after the last test is completed.  
[Rule 62-297.310(8)(b), F.A.C.]
10. Pursuant to Rule 62-4.070(3), F.A.C., a monthly log shall be kept for this facility to document compliance with the limitations of specific conditions no. 1 and 2. The log shall be completed by the end of the following month and retained on file at the facility for at least three years.
11. A DEP Form No. 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" including the Emissions Report, shall be completed for each calendar year on or before March 1 of the following year and submitted to the air compliance section of this office.  
[Rule 62-210.370(3)(a), F.A.C.]

Permittee:  
Walt Disney World Company  
  
Atten: William A. O'Toole,  
Senior Vice President

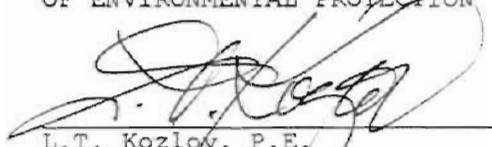
I.D. Number: 0950111  
Permit Number: 0950111-011-AC  
Expiration Date: July 30, 2002  
County: Orange

PERMIT APPLICATION

12. At least sixty days prior to the expiration date of this operation permit, the permittee shall submit to this office four air permit applications, DEP Form No. 62-210.900(1), along with the processing fee established in 62-4.050(4), F.A.C. [Rule 62-4.090(1), F.A.C.].

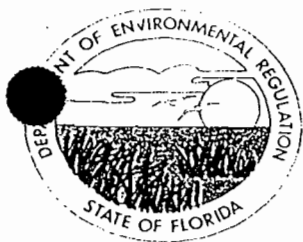
obs  
(intensity)

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



L.T. Kozlov, P.E.  
Program Administrator  
Air Resources Management

Issued: 8-25-97



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Reedy Creek Energy Services, Inc.  
P.O. Box 10,000  
Lake Buena Vista, Florida 32830

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification  
Number: AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95  
County: Orange  
Latitude/Longitude:  
28°26'00"N/81°35'00"W  
UTM: 17-443.1 KmE; 3144.3 KmN  
Project: Hot Water Generator  
No. 3 (Central Energy  
Plant)  
*North  
Service  
Area*

This permit is issued under the provisions of Chapter (s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto, or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate Hot Water Generator No. 3 rated at 116.5 MMBTU/hr maximum heat input rate fired by Natural Gas and No. 2 Fuel Oil only.

This source is located at the Central Energy Plant at 5300 North Center Drive at Lake Buena Vista, Orange Co., Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Reedy Creek Energy Services, Inc.  
  
Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS:**

OPERATING CONDITIONS

1. This source is permitted to operate 8760 hours/year.
2. This source will be fired with Natural Gas or No. 2 Fuel Oil only.
3. The permitted heat input rate for this source is 116.5 MMBTU/hr.

EMISSION LIMITS

4. The visible emissions for this Hot Water Generator must comply with Rule 17-2.610(2) F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.

COMPLIANCE TESTING

5. The source must be tested for visible emissions at yearly intervals from the date of January 10, 1990, in accordance with Rule 17-2.700(6)(a)9, (DER Method 9) F.A.C.
6. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
7. This plant is required to operate within 90 - 100 percent of permitted capacity during the compliance tests.
8. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C.).
9. The source may be tested on natural gas unless the source has been fired by fuel oil for more than 8 hours/week or 400 hours during the previous year.

PERMITTEE:  
Reedy Creek Energy Services, Inc.

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95

10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

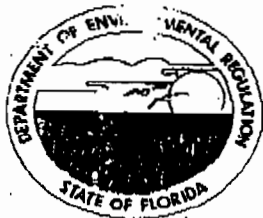
EXPIRATION DATE

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-18-97

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*A. Alexander*  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida -32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Reedy Creek Energy Services, Inc.  
P.O. Box 10,000  
Lake Buena Vista, Florida 32830

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification  
Number: AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95  
County: Orange  
Latitude/Longitude:  
28°26'00"N/81°35'00"W  
UTM: 17-443.1 KmE; 3144.3 KmN  
Project: Hot Water Generator  
No. 3 (Central Energy  
Plant)

This permit is issued under the provisions of Chapter (s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate Hot Water Generator No. 3 rated at 116.5 MMBTU/hr maximum heat input rate fired by Natural Gas and No. 2 Fuel Oil only.

This source is located at the Central Energy Plant at 5300 North Center Drive at Lake Buena Vista, Orange Co., Florida.

General Conditions are attached to be distributed to the permittee only.



**PERMITTEE:**  
 Reedy Creek Energy Services, Inc.  
 Attention: H. Robert Kohl,  
 Director of Operations

**I.D. Number:**  
 Permit/Certification Number:  
 AO48-186868  
**Date of Issue:**  
 Expiration Date: 12/30/95

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS:**

OPERATING CONDITIONS

1. This source is permitted to operate 8760 hours/year.
2. This source will be fired with Natural Gas or No. 2 Fuel Oil only.
3. The permitted heat input rate for this source is 116.5 MMBTU/hr.

EMISSION LIMITS

4. The visible emissions for this Hot Water Generator must comply with Rule 17-2.610(2) F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.

COMPLIANCE TESTING

5. The source must be tested for visible emissions at yearly intervals from the date of January 10, 1990, in accordance with Rule 17-2.700(6)(a)9, (DER Method 9) F.A.C.
6. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
7. This plant is required to operate within 90 - 100 percent of permitted capacity during the compliance tests.
8. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C.).
9. The source may be tested on natural gas unless the source has been fired by fuel oil for more than 8 hours/week or 400 hours during the previous year.

PERMITTEE:  
Reedy Creek Energy Services, Inc.  
Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
A048-186868  
Date of Issue:  
Expiration Date: 12/30/95

- 10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

EXPIRATION DATE

- 11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-18-87

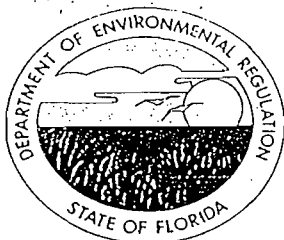
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* *Alexander*

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

Best Available Copy

Original to Frank Jones cc: Ed Godwin  
Bob Penn



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

*ACIO*

RECEIVED

Reedy Creek Energy Services, Inc.

P.O. Box 10,000

Lake Buena Vista, Florida 32830

JAN 23 1991

Attention: H. Robert Kohl,  
Director of Operations

Reedy Creek Energy Services, Inc.

Orange County - AP

Hot Water Generator No. 3 (Central Energy Plant)

Dear Mr. Kohl:

Enclosed is Permit Number AO48-186868, dated 1-18-91, to operate the above referenced sources, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interest are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action or proposed action.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

RECEIVED

JAN 21 1991

REEDY CREEK ENERGY SERVICES

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*C. M. Alexander*

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida. 32803

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

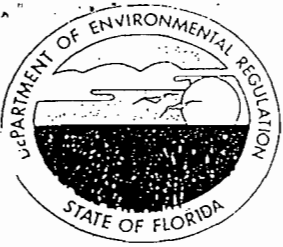
*Angie B. Bostin* 1/18/91  
Clerk Date

AA/jtt *AA*

Copies furnished to:  
Joseph L. Tessitore, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-18-91 to the listed persons, by D. Jones.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

*ACIA*

Permittee:

Reedy Creek Energy Services, Inc.

P.O. Box 10,000

Lake Buena Vista, Florida 32830

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:

Permit/Certification

Number: AO48-186868

Date of Issue:

Expiration Date: 12/30/95

County: Orange

Latitude/Longitude:

28°26'00"N/81°35'00"W

UTM: 17-443.1 KmE; 3144.3 KmN

Project: Hot Water Generator  
No. 3 (Central Energy  
Plant)

This permit is issued under the provisions of Chapter (s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate Hot Water Generator No. 3 rated at 116.5 MMBTU/hr maximum heat input rate fired by Natural Gas and No. 2 Fuel Oil only.

This source is located at the Central Energy Plant at 5300 North Center Drive at Lake Buena Vista, Orange Co., Florida.

*CAST*

General Conditions are attached to be distributed to the permittee only.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is proscribed by Section 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
- ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of Compliance with State Water Quality Standards  
(Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

Best Available Copy

1978-

PERMITTEE:  
Reedy Creek Energy Services, Inc.  
Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
A048-186868  
Date of Issue:  
Expiration Date: 12/30/95

GENERAL CONDITIONS:

- 16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
- 17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

- 1. This source is permitted to operate 8760 hours/year.
- 2. This source will be fired with Natural Gas or No. 2 Fuel Oil only.
- 3. The permitted heat input rate for this source is 116.5 MMBTU/hr.

EMISSION LIMITS

- 4. ~~The visible emissions~~ for this Hot Water Generator must comply with Rule 17-2.610(2) F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.

a

CALLS FOR  
20% CAPACITY

COMPLIANCE TESTING

- 5. The source must be tested for visible emissions at yearly intervals from the date of January 10, 1990, in accordance with Rule 17-2.700(6)(a)9, (DER Method 9) F.A.C.
- 6. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
- 7. This plant is required to operate within 90 - 100 percent of permitted capacity during the compliance tests.
- 8. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C.).
- 9. The source may be tested on natural gas unless the source has been fired by fuel oil for more than 8 hours/week or 400 hours during the previous year.



PERMITTEE:  
Reedy Creek Energy Services, Inc.

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95

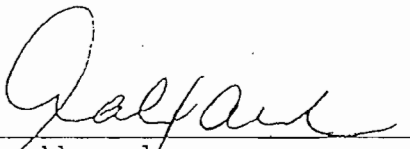
10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

EXPIRATION DATE

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-18-97

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc*   
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

FACILITY ID 300RL4801D9 - EPCOT Central Energy Plant

## NOTICE OF PERMIT ISSUANCE

### CERTIFIED MAIL

P 123 350 925

Reedy Creek Energy Services, Incorporated  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Orange County - AP

Hot Water Generators No. 1, 2, and 3 (EPCOT Center)

Dear Mr. Kohl:

Enclosed is Permit Number AO48-224513 to operate the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

RECEIVED

MAY 07 1993

LAWTON CHILES, GOVERNOR

REEDY CREEK ENERGY SERVICES, INC.

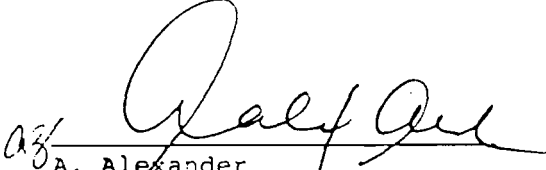
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
A. Alexander

District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

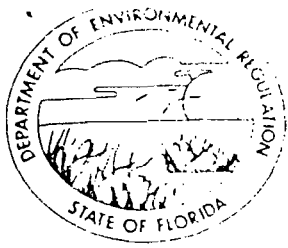
Gregory B. Baker 5/5/93  
Clerk Date

AA/jtt  
57

Copies furnished to:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on May 6, 1992 to the  
listed persons, by Sheresa Bonlden.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

**Permittee:**

Reedy Creek Energy Services, Inc.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Permit Number: AO48-224513  
Date of Issue:  
Expiration Date: April 30, 1998  
County: Orange  
Latitude/Longitude:  
28°22'24"N/81°32'46"W  
UTM: 17-446.6 KmE; 3138.5 KmN  
Project: Hot Water Generators No. 1,  
2, and 3 (EPCOT Center)

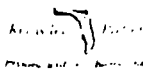
This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate hot water generators no. 1, 2, and 3 as follows:

- a) Hot Water Generator No. 1 (West) - Cleaver Brooks, Model CB 200X-800, Serial No. L69260
- b) Hot Water Generator No. 2 (Middle) - Cleaver Brooks, Model CB 200X-800, Serial No. L69259
- c) Hot Water Generator No. 3 (East) - Cleaver Brooks, Model CB 200X-800, Serial No. L69258

These sources are located at the EPCOT Central Energy Plant at 751 Backstage Lane, Bay Lake, Orange County, Florida.

**General Conditions are attached to be distributed to the permittee only.**



GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

## GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
- ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
- (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    1. the date, exact place, and time of sampling or measurements;
    2. the person responsible for performing the sampling or measurements;
    3. the dates analyses were performed;
    4. the person responsible for performing the analyses;
    5. the analytical techniques or methods used;
    6. the results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:

Reedy Creek Energy Services, Inc.

Permit Number: AO48-224513

Expiration Date: April 30, 1998

Attention: H. Robert Kohl, Director

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS

OPERATING CONDITIONS

1. Each source is permitted to operate continuously.
2. Each source will be fired with natural gas or propane only except that no. 2 fuel oil may be utilized as a back-up fuel.
3. The maximum permitted heat input rate for each source is 27 MMBTU/hr.

EMISSION LIMITS

4. The emission limitation for each source is set forth in Rule 17-296.406(1), F.A.C., (20% opacity) and the compliance test must be conducted in accordance with DER Method #9 (Rule 17-297.420, F.A.C.).

COMPLIANCE TESTING

5. Each source must be tested for visible emissions in accordance with DER Method 9 for <sup>30 minutes</sup> one hour at yearly intervals from the date of December 12, 1992. For any other method to be utilized the department must give prior approval.
6. If Fuel Oil must be used in an emergency, the department must be notified immediately and a visible emission test (DER Method #9) must be conducted and the results demonstrating compliance must be submitted to the department within 10 days after the fuel change. The permittee shall request a permit modification if Fuel Oil is to be used longer than 200 hours per year and shall be tested annually using Fuel Oil.
7. The air resources compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
8. Each source is required to operate within 90 to 100 percent of maximum permitted capacity during the compliance tests.
9. The type of fuel and the heat input to each source must be entered on the visible emission test report.



PERMITTEE:  
Reedy Creek Energy Services, Inc.  
Attention: H. Robert Kohl, Director

Permit Number: AO48-224513  
Expiration Date: April 30, 1998

**SPECIFIC CONDITIONS**  
(Continued)

10. The required test report shall be filed with this office as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
11. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-210.900(4) for the preceding calendar year.

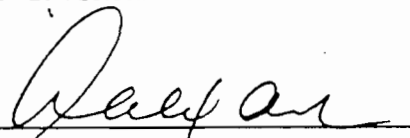
EXPIRATION DATE

12. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED

5/5/93

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

23/ 

A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

JUN 15 1993

REEDY CREEK ENERGY SERVICES, INC.

## NOTICE OF PERMIT ISSUANCE

6/11 cc: B. Kohl  
D. Wiedenkede  
B. Kohl  
B. Penn

CERTIFIED MAIL  
P 123 350 966

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-1070

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)

Dear Mr. Moses:

Enclosed is Permit Number A048-224513 to change the conditions to the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

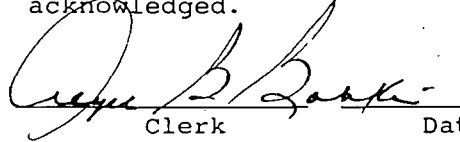
Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

cm c 

A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

  
Clerk Date 6/9/93

AA/jtt

Copies furnished to:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were  
mailed before the close of business on \_\_\_\_\_ to the listed  
persons, by \_\_\_\_\_.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-1070

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)  
Permit No. AO48-224513  
Change of Conditions

Dear Mr. Moses:

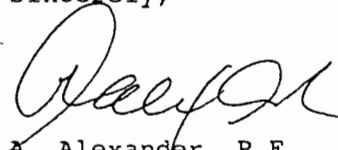
We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

<u>Condition</u>	<u>FROM</u>	<u>TO</u>
Permitee	H. Robert Kohl, Director Reedy Creek Energy Services, Incorporated Post Office Box 10,000 Lake Buena Vista, FL 32830-1000	Thomas M. Moses, District Administrator Reedy Creek Improvement District Post Office Box 10,170 Lake Buena Vista, FL 32830-1070
Specific Condition No. 5	... for one hour at yearly intervals ...	... for thirty minutes at yearly intervals ...


All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*AMC*  
  
A. Alexander, P.E.  
District Director

Date 6/5/93

AA/jtt 

Copies furnished to:



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

FACILITYID 300RL480110-Central Energy Plant - North Service Area

Permittee:  
Reedy Creek Energy Services, Inc.  
P.O. Box 10,000  
Lake Buena Vista, Florida 32830

Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification  
Number: AO48-185868  
Date of Issue:  
Expiration Date: 12/30/95  
County: Orange  
Latitude/Longitude:  
28°26'00"N/81°35'00"W  
UTM: 17-443.1 KmE; 3144.3 KmN  
Project: Hot Water Generator  
No. 3 (Central Energy  
Plant)

This permit is issued under the provisions of Chapter (s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate Hot Water Generator No. 3 rated at 116.5 MMBTU/hr maximum heat input rate fired by Natural Gas and No. 2 Fuel Oil only.

This source is located at the Central Energy Plant at 5300 North Center Drive at Lake Buena Vista, Orange Co., Florida.

General Conditions are attached to be distributed to the permittee only.

## GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

**Best Available Copy**

PERMITTEE:

I.D. Number:

Permit/Certification Number:

Date of Issue:

Expiration Date:

b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Sections 403.03 and 403.111, Florida Statutes.

10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.

11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.

12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.

13. This permit also constitutes:

- Determination of Best Available Control Technology (BACT)
- Determination of Prevention of Significant Deterioration (PSD)
- Certification of Compliance with State Water Quality Standards (Section 401, FL 92-500)
- Compliance with New Source Performance Standards

14. The permittee shall comply with the following monitoring and record keeping requirements:

a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.

b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.

c. Records of monitoring information shall include:  
- the date, exact place, and time of sampling or measurements;  
- the person responsible for performing the sampling or measurements;  
- the date(s) analyses were performed;  
- the person responsible for performing the analyses;  
- the analytical techniques or methods used; and  
- the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.



PERMITTEE:  
Reedy Creek Energy Services, Inc.  
Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS:**

OPERATING CONDITIONS

1. This source is permitted to operate 8760 hours/year.
2. This source will be fired with Natural Gas or No. 2 Fuel Oil only.
3. The permitted heat input rate for this source is 116.5 MMBTU/hr.

EMISSION LIMITS

4. The visible emissions for this Hot Water Generator must comply with Rule 17-2.610(2) F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.

COMPLIANCE TESTING

5. The source must be tested for visible emissions at yearly intervals from the date of January 10, 1990, in accordance with Rule 17-2.700(6)(a)9, (DER Method 9) F.A.C.
6. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
7. This plant is required to operate within 90 - 100 percent of permitted capacity during the compliance tests.
8. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C.).
9. The source may be tested on natural gas unless the source has been fired by fuel oil for more than 8 hours/week or 400 hours during the previous year.

PERMITTEE:  
Reedy Creek Energy Services, Inc.  
  
Attention: H. Robert Kohl,  
Director of Operations

I.D. Number:  
Permit/Certification Number:  
AO48-186868  
Date of Issue:  
Expiration Date: 12/30/95


10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

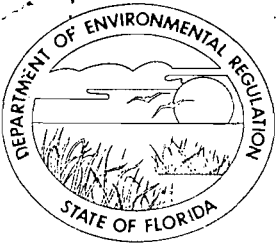
EXPIRATION DATE

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-18-91

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

Reedy Creek Energy Services, Inc.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Orange County - AP  
Steam Boiler No. 3

Dear Mr. Kohl:

Enclosed is Permit Number AO48-106733, dated 1-9-90, to change the permit conditions, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.

RECEIVED

JAN 10 1990

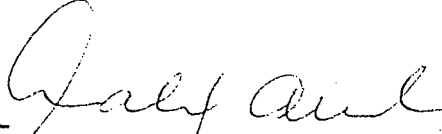
REEDY CREEK ENERGY SERVICES, INC.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

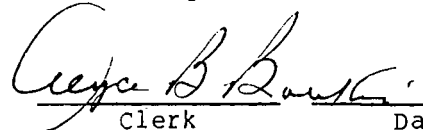
Executed in Orlando, Florida.

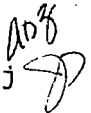
STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*ame* 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

 1/9/90  
Clerk Date

AA/jtj 

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-9-90 to the listed persons, by D. Jones.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

January 4, 1990

Reedy Creek Energy Services, Inc.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Orange County - AP  
Steam Boiler No. 3  
Permit No. AO48-106733  
Change of Conditions

Dear Mr. Kohl:

We are in receipt of your request for a change in the permit conditions. The conditions are changed as follows:

## CONDITION

Permitted Source

### FROM

Steam Boilers No. 1 and 3

### TO

Steam Boiler No. 3

## CONDITION

Permit Page No. 1

### FROM

...Steam Boilers No. 1 and 3 rated at 47.4 MMBTU/hr and 116.5 MMBTU/hr maximum heat input respectively, using Natural Gas only.

### TO

...Steam Boiler No. 3 rated at 116.5 MMBTU/hr maximum heat input, using Natural Gas only.

Reedy Creek Energy Services, Inc.  
H. Robert Kohl, Director  
Steam Boiler 3 - Permit No. AO48-106733  
Change of Conditions  
Page Two

CONDITION

Permit Page No. 4, Specific Condition No. 6

FROM

1. Boiler No. 1 - 47.4 MMBTU/hr
3. Boiler No. 3 - 116.5 MMBTU/hr

TO

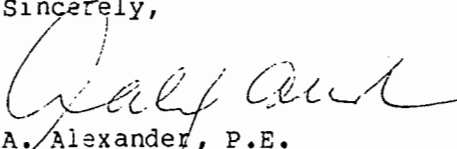
Boiler No. 3 - 116.5 MMBTU/hr

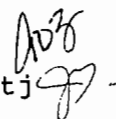
All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

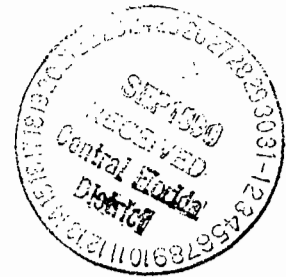
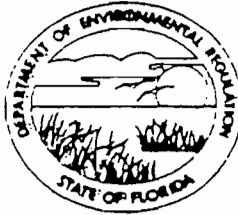
emc

  
A. Alexander, P.E.  
Deputy Assistant Secretary

AA:jtj 

STATE OF FLORIDA **Best Available Copy**  
DEPARTMENT OF ENVIRONMENTAL REGULATION

TWIN TOWERS OFFICE BUILDING  
2600 BLAIR STONE ROAD  
TALLAHASSEE, FLORIDA 32301



APPLICATION FOR RENEWAL OF  
PERMIT TO OPERATE AIR POLLUTION SOURCE(S)

If major alterations have occurred, the applicant should complete the Standard Air Permit Application Form.

Source Type: Boiler No. 3 Renewal of DER Permit No. AO48-106733

Company Name: Reedy Creek Energy Services, Inc. County: Orange

Identify the specific emission point source(s) addressed in this application (i.e., Line Kiln No. 4 with Venturi Scrubber; Peaking Unit No. 2, Gas Fired):

Central Energy Plant, Hot Water Generator No. 3

Source Location: Street: CEP 5300 N. Center Drive City: Lake Buena Vista FL

UTM: East 17-443.1 Km North 3144.3 Km

Latitude: 2 8° 2 6' 0 0"N. Longitude: 8 1° 8 5' 0 0"W.

1. Attach a check made payable to the Department of Environmental Regulation in accordance with operation permit fee schedule set forth in Florida Administrative Code Rule 17-4.05.
2. Have there been any alterations to the plant since last permitted?  Yes  No  
If minor alterations have occurred, describe on a separate sheet and attach.
3. Attach the last compliance test report required per permit conditions if not submitted previously.
4. Have previous permit conditions been adhered to?  Yes  No If no, explain on a separate sheet and attach.
5. Has there been any malfunction of the pollution control equipment during tenure of current permit?  Yes  No If yes, and not previously reported, give brief details and what action was taken on a separate sheet and attach. N/A
6. Has the pollution control equipment been maintained to preserve the collection efficiency last permitted by the Department?  Yes  No N/A
7. Has the annual operating report for the last calendar year been submitted?  Yes  No If no, please attach.

1. Please provide the following information if applicable:

A. Raw Materials and Chemical Used in Your Process:

Description	Containment		Utilization	
	Type	%wt	Rate	lbs/hr

B. Product Weight (lbs/hr): N/A

C. Fuels

Type (Be Specific)	Consumption*		Maximum Heat Input (MMBTU/hr)
	Avg/hr*	Max/hr**	
Natural Gas	0.1	0.11	116.5
*No. 2 Oil		826 GPH	116.5
*(See attached sheet)			

D. Normal Equipment Operating Time: hrs/day \_\_\_\_\_; days/wk \_\_\_\_\_; wks/yr \_\_\_\_\_;  
 hrs/yr (power plants only) 8760; if seasonal, describe \_\_\_\_\_

The undersigned owner or authorized representative\*\*\* of Reedy Creek Energy Services, Inc. is fully aware that the statements made in this application for a renewal of a permit to operate an air pollution source are true, correct and complete to the best of his knowledge and belief. Further, the undersigned agrees to maintain and operate the pollution source and pollution control facilities in such a manner as to comply with the provisions of Chapter 403, Florida Statutes, and all the rules and regulations of the Department. He also understands that a permit, if granted by the Department, will be non-transferable and he will promptly notify the Department upon sale or legal transfer of the permitted facility.

\*During actual time of operation.  
 \*\*Units: Natural Gas-MMCF/hr;  
 Fuel Oils-barrels/hr; Coal-lbs/hr.  
 \*\*\*Attach letter of authorization if not previously submitted

H. Robert Kohl  
 Signature, Owner or Authorized Representative  
 (Notarization is mandatory)  
H. Robert Kohl, Director of Operations  
 Typed Name and Title  
P. O. Box 10,000  
 Address  
Lake Buena Vista FL 32830  
 City State Zip  
9/20/90  
 Date  
(407) 824-4026  
 Telephone No.

Notary Public, State of Florida  
 My Commission Expires Oct. 9, 1992  
 Bonded Thru Troy Fain - Insurance Inc.

Susan Wafford



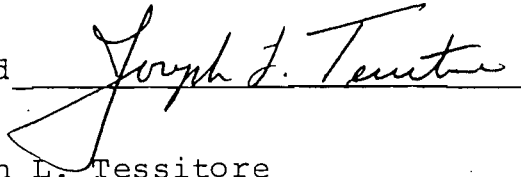
\*

We are requesting an amendment to specific condition No. 15 of the current operating permit, No. AO48-106733 so that Boiler No. 3 can operate on No. 2 fuel oil during periodic weekly maintenance or natural gas curtailment. EPA Method 9 testing would be required only if the maintenance period or natural gas curtailment exceeded 8 hr/week or 400 hr/year.

Professional Engineer Certification Statement

This is to certify that the engineering features of this pollution control project have been designed/examined by me and found to be in conformity with modern engineering principles applicable to the treatment and disposal of pollutants characterized in the permit application. There is reasonable assurance, in my professional judgment, that the pollution control facilities, when properly maintained and operated, will discharge an effluent that complies with all applicable statutes of the State of Florida and the rules and regulations of the department. It is also agreed that the undersigned will furnish, if authorized by the owner, the applicant a set of instructions for the proper maintenance and operation of the pollution control facilities and, if applicable, pollution sources.

Signed



Joseph L. Tessitore  
Name

Cross/Tessitore & Associates, P.A.  
Company

4763 S. Conway Rd., Orlando FL 32812  
Address

Florida Registration No. 23374 Date: 9/20/90 Telephone (407)851-1484



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

RECEIVED

JAN 23 1991

Reedy Creek Energy Services, Inc.  
P.O. Box 10,000  
Lake Buena Vista, Florida 32830

Attention: H. Robert Kohl,  
Director of Operations

Orange County - AP  
Hot Water Generator No. 3 (Central Energy Plant)

Dear Mr. Kohl:

Enclosed is Permit Number AO48-186868, dated 1-18-91, to operate the above referenced sources, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interest are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action or proposed action.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

RECEIVED

JAN 21 1991

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc Alexander*

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

*Angie B. Bookin* 1/18/91  
Clerk Date

*AB*  
AA/jtt *JT*

Copies furnished to:  
Joseph L. Tessitore, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-18-91 to the listed persons, by D. Jones.



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Permittee:  
Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Atten: William A. O'Toole,  
Senior Vice President

I.D. Number:  
Permit Number: AC48-268376  
Date of Issue: 12-13-1995  
Expiration Date: December 31, 1995  
County: Orange  
UTM: 17-449 KmE; 3138.0 KmN  
Project: Construction Landfill  
Generators #1 and #2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct two diesel powered electrical generators to provide electricity to the scale house (Unit #1) and the landfill office (Unit #2). Generator #1 is a Coleman/Cummings, Model 4BG, with a maximum diesel fuel heat input of 0.155 MMBtu/hr. Generator #2 is a Coleman/Kubota, Model CK05-15M/V1902-B61, with a maximum diesel fuel heat input of 0.057 MMBtu/hr.

These emission units are located at 1375 Buena Vista Drive at Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

Permittee:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-268376

Expiration Date: December 31, 1995

County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. The emission unit is permitted to operate a maximum of 8760 hours/year [Pursuant to permit application].
2. The emission unit shall be fired with diesel fuel [Pursuant to permit application].

EMISSION LIMITS

3. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor [Rule 62-296.320(2), F.A.C.].
4. The visible emissions for this emission unit must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).

COMPLIANCE TESTING

5. The emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.], within 30 days after receipt of this permit. The DEP Method 9 visible emissions test shall last for 30 minutes.
6. The permittee shall notify the Central District Office of the Department of Environmental Protection, in writing, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time and place of each such test, and the contact person who will be responsible for coordinating and having such tests conducted for the owner. The Department may waive the 15 day notice requirement on a case by case basis [Rule 62-297.340(1)(i), F.A.C.].
7. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
8. The type of fuel and the heat input to the emission unit must be entered on the visible emission test report.

Permittee:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-268376

Expiration Date: December 31, 1995

County: Orange

9. A copy of the compliance test results must be submitted to the Department's Central District Office within 45 days after the last sampling run of each test is completed [Rule 62-297.570(2), F.A.C].
10. A DEP Form No. 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" including the Emissions Report, shall be completed for each calendar year on or before March 1 of the following year and submitted to this office [Rule 62-210.370(3)(a), F.A.C.].

EXPIRATION DATE

11. This permit will expire December 31, 1995.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Vivian F. Garfein*

\_\_\_\_\_  
Vivian F. Garfein  
Director of District Management

Issued: \_\_\_\_\_

*Construction Landfill  
Amendments #1  
and #2*

Permittee:

Walt Disney World Company

I.D. Number:

Permit Number: AC48-268376

Attention: William A. O'Toole,  
Senior Vice President

Expiration Date: December 31, 1995

County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. The emission unit is permitted to operate a maximum of 8760 hours/year [Pursuant to permit application].
2. The emission unit shall be fired with diesel fuel [Pursuant to permit application].

EMISSION LIMITS

3. The permittee shall not cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor [Rule 62-296.320(2), F.A.C.].
4. The visible emissions for this emission unit must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).

COMPLIANCE TESTING

5. The emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.] within 30 days after receipt of this permit. The DEP Method 9 visible emissions test shall last for 30 minutes.
6. The permittee shall notify the Central District Office of the Department of Environmental Protection, in writing, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time and place of each such test, and the contact person who will be responsible for coordinating and having such tests conducted for the owner. The Department may waive the 15 day notice requirement on a case by case basis [Rule 62-297.340(1)(i), F.A.C.].
7. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
8. The type of fuel and the heat input to the emission unit must be entered on the visible emission test report.

**Best Available Copy**

Permittee:

Walt Disney World Company

I.D. Number:

Permit Number: AC48-268376

Attention: William A. O'Toole,  
Senior Vice President

Expiration Date: December 31, 1995

County: Orange

9. A copy of the compliance test results must be submitted to the Department's Central District Office within 45 days after the last sampling run of each test is completed [Rule 62-297.570(2), F.A.C].
10. A DEP Form No. 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" including the Emissions Report, shall be completed for each calendar year on or before March 1 of the following year and submitted to this office [Rule 62-210.370(3)(a), F.A.C.].

EXPIRATION DATE

11. This permit will expire December 31, 1995.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Vivian F. Garfein*

\_\_\_\_\_  
Vivian F. Garfein  
Director of District Management

Issued: 7-13-95





Post-It™ brand fax transmittal memo 7871 # of pages = 8	
To: Bruce Mitchell	From: J-Turner
Co. FDEP	Co. FDEP
Dept.	Phone #
Fax #	Fax #

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Permittee:  
Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

I.D. Number:  
Permit Number: AC48-271849  
Date of Issue: 9-11-95  
Expiration Date: July 1, 1999  
County: Orange  
UTM: 17-449 KmE; 3138.0 KmN  
Project: Boardwalk Resort, Two Boilers  
and Eight Hot Water Generators

Atten: William A. O'Toole,  
Senior Vice President

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct two boilers and eight hot water generators described as follows:

- a) Steam Boiler BDW-1 and BDW-2 manufactured by Cleaver Brooks, Incorporated, Model CBE-700-250. (10.46 each)
- b) Hot Water Generators ~~BDW-3~~, BDW-3, BDW-4, BDW-5, manufactured by Teledyne-Loars, Model VW-4050-IN-09. (4.05 each)
- c) Hot Water Generators BDW-6 and BDW-7 manufactured by Teledyne-Loars, Model VW-4500-IN-09. (4.5 each)
- d) Hot Water Generators BDW-8 and BDW-9 manufactured by Teledyne-Loars, Model PW-1430-IN-09. (1.43 ea)
- e) Hot Water Generator BDW-10 manufactured by Rayback, Model P-3001. (3-4)

These emission units are located at the Boardwalk Resort at 1375 Buena Vista Drive, Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Atten: William A. O'Toole,  
Senior Vice President

**I.D. Number:**

Permit Number: AC48-271849  
Date of Issue: 9-11-95  
Expiration Date: July 1, 1999  
County: Orange  
UTM: 17-449 KmE; 3130.0 KmN  
Project: Boardwalk Resort, Two Boilers  
and Eight Hot Water Generators

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct two boilers and eight hot water generators described as follows:

- a) Steam Boiler BDW-1 and BDW-2 manufactured by Cleaver Brooks, Incorporated, Model CBE-700-250.
- b) Hot Water Generators BB-3, BDW-3, BDW-4, BDW-5, manufactured by Teledyne-Loars, Model VW-4050-IN-09.
- c) Hot Water Generators BDW-6 and BDW-7 manufactured by Teledyne-Loars, Model VW-4500-IN-09.
- d) Hot Water Generators BDW-8 and BDW-9 manufactured by Teledyne-Loars, Model PW-1430-IN-09.
- e) Hot Water Generator BDW-10 manufactured by Rayback, Model P-3001.

These emission units are located at the Boardwalk Resort at 1375 Buena Vista Drive, Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

Permittee:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-271849

Expiration Date: July 1, 1999

County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. Each emission unit is permitted to operate continuously, per the application.
2. Each emission unit shall be fired with natural gas only, per the application.
3. The maximum permitted heat input rate is 48.33 MMBTU/hr, per the application.  
*total: all units*

EMISSION LIMITS

*Alan  
Zuhm  
10-7-97  
RAC*

4. The visible emissions from the eight hot water generators must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).
5. The visible emissions limitation for the two steam boilers shall comply with Rule 62-296.406(1), F.A.C. (up to 20% opacity, except for one 2-minute period per hour during which opacity shall not exceed 40%).

BACT Determined by DEP:

6. The amount of particulate matter and sulfur dioxide emissions from the boiler shall be limited by the firing of natural gas only [Rule 62-296.406(2) and (3), F.A.C.].

COMPLIANCE TESTING

7. Each emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.]. The DEP Method 9 test shall consist of a thirty minute visible emission test.
8. Within 60 days after achieving the maximum production rate at which the affected facility will be operated, but not later than 180 days after initial startup of such facility and at such other times as may be required by the Administrator under section 114 of the Act, the owner or operator of such facility shall conduct performance test(s) and furnish the Administrator a written report of the results of such performance test(s).  
[Rule 62-297.570, F.A.C.].
9. At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the air compliance section of this office. The notification must include the following information: the date, time and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and telephone number of the person conducting the test [Rule 62-297.340(1)(i), F.A.C.].

Permittee:

Walt Disney World Company

I.D. Number:

Permit Number: AC48-271849

Attention: William A. O'Toole,  
Senior Vice President

Expiration Date: July 1, 1999

County: Orange

10. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emission unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
11. The type of fuel and the heat input to the emission unit must be entered on the visible emission test report.
12. A DEP Form No. 62-210.900(5), "Annual Operating Report for Air Pollutant Emitting Facility" including the Emissions Report, shall be completed for each calendar year and submitted to this office on or before March 1 of the following year [Rule 62-210.370(3)(a), F.A.C.].

EXPIRATION DATE

13. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit or six months after being placed in operation, whichever date occurs first.

The permittee must notify the Department in writing of the startup date for any source covered by this permit. This notification must be addressed to the Permitting Section and received no later than 15 days after startup.

This permit will expire July 1, 1999 or when the Title V operating permit is issued, whichever occurs first.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

Charles M. Collins

Charles M. Collins, P.E.  
Air Program Administrator

Issued: 9-11-95



## Florida Department of Environmental Regulation

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, Florida 32399-2400

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary

**PERMITTEE:**

Walt Disney World Co.  
Post Office Box 10,000  
Lake Buena Vista, FL 32830

Permit Number: AC 48-156350  
Expiration Date: Dec. 1, 1989  
County: Orange  
Latitude/Longitude: 28°24'05"N  
81°35'12"W  
Project: Laundry Boilers No. 1,  
2, and 3, LBB-1

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2 and 17-4. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof and specifically described as follows:

For the construction of three natural gas-fired boilers to provide steam to an existing laundry facility. Boilers 1, 2, and 3 are York-Shipley Steam Boilers of 300HP, 300HP and 350HP, respectively, firing a total of 39,600 CFH of natural gas and exhausting through a common stack. The boilers are located in the North Service Area in the Walt Disney complex, Orange County, Florida.

The UTM coordinates of this facility are Zone 17, 443.5 km East and 3144.2 km North.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

Attachments are listed below:

1. Walt Disney's application package received October 25, 1988.
2. DER's letter dated November 23, 1988.
3. Preliminary Determination dated January 25, 1989.

PERMITTEE: Walt Disney World Co.

Permit Number: AC 48-156350  
Expiration Date: Dec. 1, 1989

**GENERAL CONDITIONS:**

- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by Department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.

15. When requested by the department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be submitted or corrected promptly.

**SPECIFIC CONDITIONS:**

1. Boilers 1, 2, and 3 may operate continuously, i.e., 8760 hours per year.
2. Only natural gas shall be fired in the boilers.
3. The maximum heat input to the boilers 1, 2, and 3 shall not exceed a combined total of 39.6 MMBtu/hr.

PERMITTEE:  
Walt Disney World Co.

Permit Number: AC 48-156350  
Expiration Date: Dec. 1, 1989

SPECIFIC CONDITIONS:

4. The maximum allowable emissions from all the three boilers combined for inventory purposes are as follows:

Pollutant	Emissions	
	lbs/hr	TPY
PM/PM <sub>10</sub>	0.20	0.87
SO <sub>2</sub>	0.02	0.10
NOx	3.96	17.35
CO	0.79	3.47
VOC	0.21	0.92

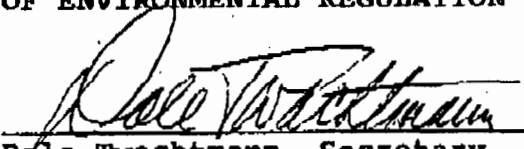
- N/A
5. Visible emissions shall not exceed 5% opacity.
  6. Good combustion practices shall be implemented at all times as control measures for the pollutants emitted as products of combustion.
  7. Initial and annual compliance tests shall be conducted using EPA Method 9, for visible emissions, in accordance with the 1987 version of 40 CFR 60, Appendix A.
  8. A minimum of 15 days prior notification of the compliance tests shall be given to DER's Central Florida District office. The compliance test results shall be submitted to the district office within 45 days of test completion.
  9. The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the BAQM prior to 60 days before the expiration of the permit (F.A.C. 17-4.090).
  10. An application for an operation permit must be submitted to the Central Florida District office at least 90 days prior to the expiration date of this construction permit or within 45 days after completion of compliance testing, whichever occurs first. To properly apply for an operation permit, the applicant shall submit the appropriate application form, fee, certification that construction was completed noting any deviations from the conditions in the construction permit, and compliance test reports as required by this permit (F.A.C. 17-4.220).
  11. Any change in the method of operation, fuels, equipment or operating hours shall be submitted to DER's Central Florida District office for approval.

**PERMITTEE:**  
Walt Disney World Co.

Permit Number: AC 48-156350  
Expiration Date: Dec. 1, 1989

Issued this 24 day  
of March, 1989

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION**

  
\_\_\_\_\_  
Dale Twachtmann, Secretary





# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

Walt Disney World Co.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830

Attention: Edward B. Crowell, Vice President,  
Facilities Support

Orange County - AP  
Laundry Boilers No. 1, 2, 3, and 4

Dear Mr. Crowell:

Enclosed is Permit Number **AO48-169578**, dated 11-7-89, to operate the above referenced sources, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.

30-ORL-48-0111

pd → 1.04 1/4R  
SO<sub>2</sub> .12  
NO<sub>x</sub> 20.74  
CO 4.15  
VOC 1.1

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

Charles M. Callen

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

Carol B. Brock 11/8/89  
Clerk Date

AA/jtj

Copies furnished to:  
Thomas W. Davis, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 11/8/89 to the listed persons, by E. B. Williams



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Walt Disney World Co.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830

Attention: Edward B. Crowell,  
Vice President, Facilities Support

I. D. Number:  
Permit/Certification  
Number: AO48-169578  
Date of Issue: 11-7-89  
Expiration Date: 11/10/94  
County: Orange  
Latitude/Longitude:  
28°24'05"N/81°35'12"W  
UTM: 17-443.5 KmE; 3144.2 KmN  
Project: Laundry Boilers No. 1,  
2, 3, and 4

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate four natural gas-fired boilers to provide steam to an existing laundry facility. Boilers 1, 2, and 3 are York-Shipley Steam Boilers of 300HP, 300HP and 350HP respectively, firing a total of 39,600 CFH of natural gas and exhausting through a common stack. Boiler No. 4 has a capacity of 7,734 CFH.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

The boilers are located in the North Service Area in the Walt Disney complex, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Walt Disney World Co.

Attention: Edward B. Crowell,  
Vice President, Facilities Support

I. D. Number:  
Permit/Certification Number:  
AO48-169578  
Date of Issue:  
Expiration Date: 11/10/94

SPECIFIC CONDITIONS:

1. Boilers 1, 2, 3, and 4 may operate continuously, 8760 hours per year.
2. Only natural gas shall be fired in the boilers.
3. The maximum heat input to the boilers 1, 2, and 3 shall not exceed a combined total of 39.6 MMBTU/hr. The maximum heat input to boiler No. 4 shall not exceed 7.8 MMBTU/hr.
4. The maximum allowable emissions from all the ~~three~~<sup>four</sup> boilers combined for inventory purposes are as follows:

Pollutant	Emissions	
	lbs/hr	TPY
PM/PM <sub>10</sub>	0.24	1.04
SO <sub>2</sub>	0.03	0.12
NO <sub>x</sub>	4.73	20.74
CO	0.94	4.15
VOC	0.25	1.1

- Is no AC, this do report 6 min/hr 0.24*
5. Visible emissions shall not exceed 5% opacity.
  6. Good combustion practices shall be implemented at all times as control measures for the pollutants emitted as products of combustion.
  7. Compliance tests shall be conducted annually from the date of March 1, 1989 using EPA Method 9, for visible emissions, in accordance with the 1987 version of 40 CFR 60, Appendix A.
  8. A minimum of 15 days prior notification of the compliance tests shall be given to DER's Central District office. The compliance test results shall be submitted to the district office within 45 days of test completion.
  9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted to DER's Central District office for approval.
  10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.
- TU-1*

PERMITTEE:  
Walt Disney World Co.

Attention: Edward B. Crowell,  
Vice President, Facilities Support

I. D. Number:  
Permit/Certification Number:  
AO48-169578  
Date of Issue:  
Expiration Date: 11/10/94

SPECIFIC CONDITIONS:

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 11-7-89

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*Charles M. Collins*

for. A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

**Permittee:**

Walt Disney World Co.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830

Attention: Edward B. Crowell,  
Vice President, Facilities Support

**I. D. Number:**

Permit/Certification  
Number: A048-169578  
Date of Issue: 11-7-89  
Expiration Date: 11/10/94  
County: Orange  
Latitude/Longitude:  
28°24'05"N/81°35'12"W  
UTM: 17-443.5 KmE; 3144.2 KmN  
Project: Laundry Boilers No. 1,  
2, 3, and 4

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate four natural gas-fired boilers to provide steam to an existing laundry facility. Boilers 1, 2, and 3 are York-Shipley Steam Boilers of 300HP, 300HP and 350HP respectively, firing a total of 39,600 CFH of natural gas and exhausting through a common stack. Boiler No. 4 has a capacity of 7,734 CFH.

The source shall be in accordance with the permit application, plans, documents, amendments and drawings, except as otherwise noted in the General and Specific Conditions.

The boilers are located in the North Service Area in the Walt Disney complex, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Walt Disney World Co.

Attention: Edward B. Crowell,  
Vice President, Facilities Support

I. D. Number:  
Permit/Certification Number:  
A048-169578  
Date of Issue:  
Expiration Date: 11/10/94

SPECIFIC CONDITIONS:

1. Boilers 1, 2, 3, and 4 may operate continuously, 8760 hours per year.
2. Only natural gas shall be fired in the boilers.
3. The maximum heat input to the boilers 1, 2, and 3 shall not exceed a combined total of 39.6 MMBTU/hr. The maximum heat input to boiler No. 4 shall not exceed 7.8 MMBTU/hr.
4. The maximum allowable emissions from all the three boilers combined for inventory purposes are as follows:

<u>Pollutant</u>	<u>Emissions</u>	
	<u>lbs/hr</u>	<u>TPY</u>
PM/PM <sub>10</sub>	0.24	1.04
SO <sub>2</sub>	0.03	0.12
NO <sub>x</sub>	4.73	20.74
CO	0.94	4.15
VOC	0.25	1.1

5. Visible emissions shall not exceed 5% opacity.
6. Good combustion practices shall be implemented at all times as control measures for the pollutants emitted as products of combustion.
7. Compliance tests shall be conducted annually from the date of March 1, 1989 using EPA Method 9, for visible emissions, in accordance with the 1987 version of 40 CFR 60, Appendix A.
8. A minimum of 15 days prior notification of the compliance tests shall be given to DER's Central District office. The compliance test results shall be submitted to the district office within 45 days of test completion.
9. Any change in the method of operation, fuels, equipment or operating hours shall be submitted to DER's Central District office for approval.
10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year in accordance with Rule 17-4.14, F.A.C.

Best Available Copy

ATTN:   
 Walt Disney World Co.

Attention: Edward B. Crowell,  
Vice President, Facilities Support

I. D. Number:  
Permit/Certification Number:  
AO48-169578  
Date of Issue:  
Expiration Date: 11/10/94

SPECIFIC CONDITIONS:

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

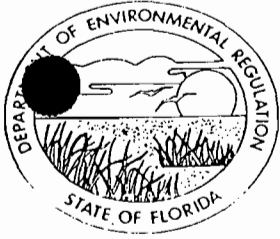
ISSUED 11-7-89

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

Charles M. Collins

for. A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803





# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

**Permittee:**

Reedy Creek Energy Services, Inc.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Permit Number: AO48-224513  
Date of Issue:  
Expiration Date: April 30, 1998  
County: Orange

Latitude/Longitude:  
28°22'24"N/81°32'46"W

UTM: 17-446.6 KmE; 3138.5 KmN

Project: Hot Water Generators No. 1,  
2, and 3 (EPCOT Center)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate hot water generators no. 1, 2, and 3 as follows:

- a) Hot Water Generator No. 1 (West) - Cleaver Brooks, Model CB 200X-800, Serial No. L69260
- b) Hot Water Generator No. 2 (Middle) - Cleaver Brooks, Model CB 200X-800, Serial No. L69259
- c) Hot Water Generator No. 3 (East) - Cleaver Brooks, Model CB 200X-800, Serial No. L69258

These sources are located at the EPCOT Central Energy Plant at 751 Backstage Lane, Bay Lake, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

Reedy Creek Energy Services, Inc.

Permit Number: AO48-224513

Expiration Date: April 30, 1998

Attention: H. Robert Kohl, Director

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS

OPERATING CONDITIONS

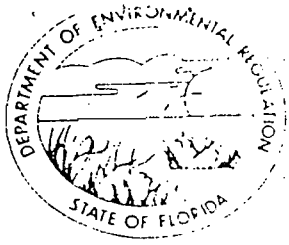
1. Each source is permitted to operate continuously.
2. Each source will be fired with natural gas or propane only except that no. 2 fuel oil may be utilized as a back-up fuel.
3. The maximum permitted heat input rate for each source is 27 MMBTU/hr.

EMISSION LIMITS

4. The emission limitation for each source is set forth in Rule 17-296.406(1), F.A.C., (20% opacity) and the compliance test must be conducted in accordance with DER Method #9 (Rule 17-297.420, F.A.C.).

COMPLIANCE TESTING

5. Each source must be tested for visible emissions in accordance with DER Method 9 for one hour at yearly intervals from the date of December 12, 1992. For any other method to be utilized the department must give prior approval.
6. If Fuel Oil must be used in an emergency, the department must be notified immediately and a visible emission test (DER Method #9) must be conducted and the results demonstrating compliance must be submitted to the department within 10 days after the fuel change. The permittee shall request a permit modification if Fuel Oil is to be used longer than 200 hours per year and shall be tested annually using Fuel Oil.
7. The air resources compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
8. Each source is required to operate within 90 to 100 percent of maximum permitted capacity during the compliance tests.
9. The type of fuel and the heat input to each source must be entered on the visible emission test report.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

**Permittee:**

Reedy Creek Energy Services, Inc.  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Permit Number: AO48-224513  
Date of Issue:  
Expiration Date: April 30, 1998  
County: Orange  
Latitude/Longitude:  
28°22'24"N/81°32'46"W  
UTM: 17-446.6 KmE; 3138.5 KmN  
Project: Hot Water Generators No. 1,  
2, and 3 (EPCOT Center)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate hot water generators no. 1, 2, and 3 as follows:

- a) Hot Water Generator No. 1 (West) - Cleaver Brooks, Model CB 200X-800, Serial No. L69260
- b) Hot Water Generator No. 2 (Middle) - Cleaver Brooks, Model CB 200X-800, Serial No. L69259
- c) Hot Water Generator No. 3 (East) - Cleaver Brooks, Model CB 200X-800, Serial No. L69258

These sources are located at the EPCOT Central Energy Plant at 751 Backstage Lane, Bay Lake, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

Reedy Creek Energy Services, Inc.

Permit Number: AO48-224513

Expiration Date: April 30, 1998

Attention: H. Robert Kohl, Director

SPECIFIC CONDITIONS

(Continued)

10. The required test report shall be filed with this office as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
11. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-210.900(4) for the preceding calendar year.

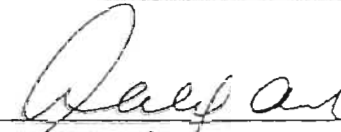
EXPIRATION DATE

12. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED

5/5/93

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

93 

A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

BEST AVAILABLE COPY

GENERAL CONDITIONS:

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Section 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
11. This permit is transferable only upon Department approval in accordance with Rule 17-4.120 and 17-30.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
12. This permit or a copy thereof shall be kept at the work site of the permitted activity.
13. This permit also constitutes:
  - ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of compliance with state Water Quality Standards (Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following:
  - (a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - (b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - (c) Records of monitoring information shall include:
    1. the date, exact place, and time of sampling or measurements;
    2. the person responsible for performing the sampling or measurements;
    3. the dates analyses were performed;
    4. the person responsible for performing the analyses;
    5. the analytical techniques or methods used;
    6. the results of such analyses.
15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

PERMITTEE:

Reedy Creek Energy Services, Inc.

Permit Number: AO48-224513

Expiration Date: April 30, 1998

Attention: H. Robert Kohl, Director

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS

OPERATING CONDITIONS

1. Each source is permitted to operate continuously.
2. Each source will be fired with natural gas or propane only except that no. 2 fuel oil may be utilized as a back-up fuel.
3. The maximum permitted heat input rate for each source is 27 MMBTU/hr.

EMISSION LIMITS

4. The emission limitation for each source is set forth in Rule 17-296.406(1), F.A.C., (20% opacity) and the compliance test must be conducted in accordance with DER Method #9 (Rule 17-297.420, F.A.C.).

COMPLIANCE TESTING

5. Each source must be tested for visible emissions in accordance with DER Method 9 for one hour at yearly intervals from the date of December 12, 1992. For any other method to be utilized the department must give prior approval.
6. If Fuel Oil must be used in an emergency, the department must be notified immediately and a visible emission test (DER Method #9) must be conducted and the results demonstrating compliance must be submitted to the department within 10 days after the fuel change. The permittee shall request a permit modification if Fuel Oil is to be used longer than 200 hours per year and shall be tested annually using Fuel Oil.
7. The air resources compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
8. Each source is required to operate within 90 to 100 percent of maximum permitted capacity during the compliance tests.
9. The type of fuel and the heat input to each source must be entered on the visible emission test report.

PERMITTEE:

Reedy Creek Energy Services, Inc.

Permit Number: AO48-224513

Expiration Date: April 30, 1998

Attention: H. Robert Kohl, Director

SPECIFIC CONDITIONS

(Continued)

10. The required test report shall be filed with this office as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
11. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-210.900(4) for the preceding calendar year.

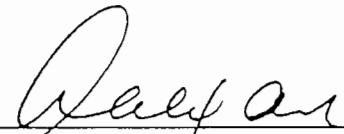
EXPIRATION DATE

12. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED

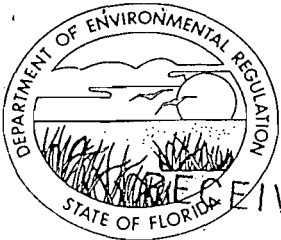
5/5/93

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

93/ 

A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803





# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

JUN 15 1993

REEDY CREEK ENERGY SERVICES, INC.

## NOTICE OF PERMIT ISSUANCE

6/11 cc: B. Kohl  
D. Wiedenknecht  
B. Kohl  
B. Penn

CERTIFIED MAIL  
P 123 350 966

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-1070

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)

Dear Mr. Moses:

Enclosed is Permit Number AO48-224513 to change the conditions to the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.


Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*CMC* 

A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

  
Clerk Date 6/9/93

AA/jtt

Copies furnished to:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies were  
mailed before the close of business on \_\_\_\_\_ to the listed  
persons, by \_\_\_\_\_.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

Reedy Creek Improvement District  
Post Office Box 10,170  
Lake Buena Vista, Florida 32830-1070

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)  
Permit No. AO48-224513  
Change of Conditions

Dear Mr. Moses:

We are in receipt of your request for a change of the permit conditions. The conditions are changed as follows:

<u>Condition</u>	<u>FROM</u>	<u>TO</u>
Permitee	H. Robert Kohl, Director Reedy Creek Energy Services, Incorporated Post Office Box 10,000 Lake Buena Vista, FL 32830-1000	Thomas M. Moses, District Administrator Reedy Creek Improvement District Post Office Box 10,170 Lake Buena Vista, FL 32830-1070
Specific Condition No. 5	... for one hour at yearly intervals ...	... for thirty minutes at yearly intervals ...

All other conditions remain the same.

This letter must be attached to your permit and becomes a part of that permit.

Sincerely,

*Handwritten signature of A. Alexander*

A. Alexander, P.E.  
District Director

Date 6/5/93

AA/jtt

Copies furnished to:



Lawton Chiles  
Governor

# Florida Department of Environmental Protection

Central District

3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: Robert H. Penn, Director of  
Environmental Affairs

Permit Number: AC48-243687

Date of Issue:

Expiration Date: March 30, 1999

County: Orange

Latitude/Longitude:

28°23'45"N/81°32'00"W

Project: Housekeeping Linen  
Facility Oil Heaters

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee may construct a housekeeping linen facility. Three natural gas fired oil heaters will be used to provide heat to seven flatwork ironing units. The oil heaters are manufactured by Fulton Thermal Corporation, Model FT-C 1000. Each heater has a TEA Model D.C.-2 SUPERMIZER heat recovery unit.

The permittee may construct twenty-six natural gas dryers to dry laundry. The heat capacity of the units is 32.6 MMBtu/hr. The natural gas dryers are exempt from ~~emission testing~~, Rule 17-210.300(3)(g), F.A.C.

This source is located at the Housekeeping Linen Facility, Bonnet Creek Drive, Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Permittee:  
Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Atten: Robert H. Penn, Director,  
Environmental Affairs

I.D. Number:  
Permit Number: AO48-273303  
Date of Issue: 8-21-95  
Expiration Date: July 30, 2000  
County: Orange  
Latitude/Longitude:  
28° 23' 45"N/81° 32'00"W  
Project: Housekeeping Linen  
Facility Oil Heaters

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate a housekeeping linen facility. Two natural gas fired oil heaters are used to provide heat to flatwork ironing units. The oil heaters are manufactured by Fulton Thermal Corporation, Model FT-C 1000. Each heater has a TEA Model D.C.-2 SUPERMIZER heat recovery unit.

The emission units are located at the Housekeeping Linen Facility, Bonnet Creek Drive, Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

North Service Area Laundry Oil Heaters x 2  
(Admin. Area)  
WOW  
EU #72

Permittee:

Walt Disney World Company

I.D. Number:

AC48-243687

Permit Number: AO48-273303

Atten: Robert H. Penn, Director,  
Environmental Affairs

Expiration Date: July 30, 2000

County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. Each emission unit is permitted to operate continuously, per the application.
2. The emission unit shall be fired with natural gas or propane only.
3. Each total maximum permitted heat input rate for the two emission units is 26.0 MMBtu/hour.

EMISSION LIMITS

4. The emissions limitation for each emission unit must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).

COMPLIANCE TESTING

5. Each emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.]. at least 90 days prior to permit expiration date. The DEP Method 9 test shall consist of a thirty minute visible emission test.
6. At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the air compliance section of this office. The notification must include the following information: the date, time and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and telephone number of the person conducting the test [Rule 62-297.340(1)(i), F.A.C.].
7. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
8. The type of fuel and the heat input to the emission unit must be entered on the visible emission test report.

Permittee:  
Walt Disney World Company

Atten: Robert H. Penn, Director,  
Environmental Affairs

I.D. Number:  
Permit Number: AO48-273303  
Expiration Date: July 30, 2000  
County: Orange

9. Reports of the required compliance tests shall be filed with the air compliance section of this office as soon as practical but no later than 45 days after the last test is completed [Rule 62-297.570(2), F.A.C.].

EXPIRATION DATE

10. At least sixty days prior to the expiration date of this operation permit, the permittee shall submit to this office four air permit applications, DEP Form No. 62-210.900(2), along with the processing fee established in 62-4.050(4), F.A.C. [Rule 62-4.090(1), F.A.C.].

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

Charles M Collins

Charles M. Collins, P.E.  
Air Program Administrator

Issued: 8-21-95





# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

Permittee:

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: William A. O'Toole,  
Senior Vice President

Permit Number: AC48-264605  
Date of Issue: 3/28/95  
Expiration Date: February 28, 2000  
County: Orange  
Latitude/Longitude:  
28°22'08"N/81°30'48"W  
UTM: 17-449.7 KmE; 3138.0 KmN  
Project: Two Boilers and Three Hot  
Water Generators (Blizzard  
Beach)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-210. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct two steam boilers and three hot water generators, described as follows:

- a) Steam Boiler BB-1 manufactured by Ajax Boiler, Incorporated, Model WG-1375.
- b) Steam Boiler BB-2 manufactured by Ajax Boiler, Incorporated, Model WG-1375.
- c) Hot Water Generator BB-3 manufactured by Ajax Boiler, Incorporated, Model XGF-6500-W.
- d) Hot Water Generator BB-4 manufactured by Ajax Boiler, Incorporated, Model XGF-6500-W.
- e) Hot Water Generator BB-5 manufactured by Ajax Boiler, Incorporated, Model XGF-1500-W.

These emission units are located at the Blizzard Beach Complex at 1375 Buena Vista Drive, Lake Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-264605

Expiration Date: February 28, 2000

County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. Each emission unit is permitted to operate continuously, per the application.
2. Each emission unit will be fired with natural gas only, per the application.
3. The maximum permitted heat input rates are as follows, per the application:

a)	BB-1	1.38 MMBTU/hour
b)	BB-2	1.38 MMBTU/hour
c)	BB-3	6.5 MMBTU/hour
d)	BB-4	6.5 MMBTU/hour
e)	BB-5	1.5 MMBTU/hour

EMISSION LIMITS

4. The visible emissions from the three hot water generators must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).
5. The visible emissions limitation from the two steam boilers shall comply with Rule 62-296.406(1), F.A.C. (up to 20% opacity, except for one 2-minute period per hour during which opacity shall not exceed 40%).

BACT Determined by DEP:

6. The amount of particulate and sulfur dioxide emissions from the two steam boilers shall be limited by the firing of natural gas only [Rule 62-296.406(2)&(3), F.A.C.].

COMPLIANCE TESTING

7. Each emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.] within thirty days after being placed in operation. The DEP Method 9 test shall consist of a thirty minute visible emissions test for each hot water generator and a sixty minute visible emission test for each steam boiler.
8. At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the Air Compliance Section of this office. The notification must include the following information: the date, time and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and telephone number of the person conducting the test [Rule 62-297.340(1)(i), F.A.C.].

PERMITTEE:

Walt Disney World Company

I.D. Number:

Permit Number: AC48-264605

Attention: William A. O'Toole,  
Senior Vice President

Expiration Date: February 28, 2000  
County: Orange

SPECIFIC CONDITIONS

(Continued)

- 9. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
- 10. The type of fuel and the heat input to each emission unit must be entered on the visible emission test report.
- 11. Reports of the required compliance tests shall be filed with the Air Compliance Section of this office as soon as practical but no later than 45 days after the last test is completed [Rule 62-297.570(2), F.A.C.].
- 12. A DEP Form No. 62-210.900(5), F.A.C. "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, shall be completed for each calendar year and submitted to this office on or before March 1 of the following year [Rule 62-210.370(3), F.A.C.].

EXPIRATION DATE

- 13. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit (Rule 62-4.09, Florida Administrative Code).

N/A  
obs

The permittee must notify the Department in writing of the startup date for any source covered by this permit. This notification must be addressed to the Permitting Section and received no later than 15 days after startup.

An operating permit is required for operation of this source. To obtain an operating permit, the permittee must demonstrate compliance with the conditions of the construction permit and submit the application fee, along with compliance test results and Application for Air Permit to the Department's Central Florida District office no later than 60 days prior to the expiration date of the construction permit.

This permit will expire February 28, 2000 or six months after being placed in operation, whichever comes first.

PERMITTEE:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-264605


Expiration Date: February 28, 2000

County: Orange

SPECIFIC CONDITIONS:

(Continued)

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*cms*   
William M. Bostwick, Jr., P.E.  
Acting District Director

ISSUED

3/28/95

PERMITTEE:

Walt Disney World Company

I.D. Number:

Permit Number: AC48-264605

Attention: William A. O'Toole,  
Senior Vice President

Expiration Date: February 28, 2000  
County: Orange

SPECIFIC CONDITIONS:

OPERATING CONDITIONS

1. Each emission unit is permitted to operate continuously, per the application.
2. Each emission unit will be fired with natural gas only, per the application.
3. The maximum permitted heat input rates are as follows, per the application:

a) BB-1	1.38 MMBTU/hour
b) BB-2	1.38 MMBTU/hour
c) BB-3	6.5 MMBTU/hour
d) BB-4	6.5 MMBTU/hour
e) BB-5	1.5 MMBTU/hour

EMISSION LIMITS

4. The visible emissions from the three hot water generators must comply with Rule 62-296.310(2), F.A.C. (limited to less than 20% opacity).
5. The visible emissions limitation from the two steam boilers shall comply with Rule 62-296.406(1), F.A.C. (up to 20% opacity, except for one 2-minute period per hour during which opacity shall not exceed 40%).

BACT Determined by DEP:

6. The amount of particulate and sulfur dioxide emissions from the two steam boilers shall be limited by the firing of natural gas only [Rule 62-296.406(2)&(3), F.A.C.].

COMPLIANCE TESTING

7. Each emission unit must be tested for visible emissions in accordance with DEP Method 9 [Rule 62-297.401, F.A.C.] within thirty days after being placed in operation. The DEP Method 9 test shall consist of a thirty minute visible emissions test for each hot water generator and a sixty minute visible emission test for each steam boiler.
8. At least 15 days prior to the date on which each formal compliance test is due to begin, the permittee shall provide written notification of the test to the Air Compliance Section of this office. The notification must include the following information: the date, time and location of each test; the name and telephone number of the facility's contact person who will be responsible for coordinating the test; and the name, company, and telephone number of the person conducting the test [Rule 62-297.340(1)(i), F.A.C.].

PERMITTEE:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-264605

Expiration Date: February 28, 2000

County: Orange

SPECIFIC CONDITIONS

(Continued)

- 9. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity. Permitted capacity is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impractical to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity [Rule 62-297.310(2), F.A.C.].
- 10. The type of fuel and the heat input to each emission unit must be entered on the visible emission test report.
- 11. Reports of the required compliance tests shall be filed with the Air Compliance Section of this office as soon as practical but no later than 45 days after the last test is completed [Rule 62-297.570(2), F.A.C.].
- 12. A DEP Form No. 62-210.900(5), F.A.C. "Annual Operating Report for Air Pollutant Emitting Facility", including the Emissions Report, shall be completed for each calendar year and submitted to this office on or before March 1 of the following year [Rule 62-210.370(3), F.A.C.].

EXPIRATION DATE

- 13. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit (Rule 62-4.09, Florida Administrative Code).

The permittee must notify the Department in writing of the startup date for any source covered by this permit. This notification must be addressed to the Permitting Section and received no later than 15 days after startup.

An operating permit is required for operation of this source. To obtain an operating permit, the permittee must demonstrate compliance with the conditions of the construction permit and submit the application fee, along with compliance test results and Application for Air Permit to the Department's Central Florida District office no later than 60 days prior to the expiration date of the construction permit.

This permit will expire February 28, 2000 or six months after being placed in operation, whichever comes first.

PERMITTEE:

Walt Disney World Company

Attention: William A. O'Toole,  
Senior Vice President

I.D. Number:

Permit Number: AC48-264605


Expiration Date: February 28, 2000

County: Orange

SPECIFIC CONDITIONS:

(Continued)

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*cmc* 

William M. Bostwick, Jr., P.E.  
Acting District Director

ISSUED 3/28/95



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtman, Secretary

John Shearer, Assistant Secretary

Alex Alexander, Deputy Assistant Secretary

**Permittee:**

Walt Disney World Company  
P.O. Box 10000  
Lake Buena Vista, FL 32830

Attention: Bruce Laval, Director  
Studio Tours

**I. D. Number:**

Permit/Certification  
Number: AC48-151515  
Date of Issue:  
Expiration Date: 7/30/89  
County: Orange  
Latitude/Longitude:  
28°21'25"N/81°33'42"W  
UTM: 17-443.1 KmE; 3137.7 KmN  
Project: Nine Hot Water  
Generators - Studio Tours

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct Nine Hot Water Generators as follows:

<u>Designation</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hr)</u>
STB-1	A.O. Smith, Model HWT-1240	1.3
STB-2	Bryan, Model CL-150	1.6
STB-2	A.O. Smith, Model HWT-1240	1.3
STB-3	Bryan, Model CL-120	1.3
STB-4	Bryan, Model CL-180	1.9
STB-5	A.O. Smith, Model HWT-1240	1.3
STB-6	Unknown	2.7
STB-7	Bryan, Model CL-120	1.3
STB-8	A.O. Smith, Model HWT-1240	1.3

Each unit is fired by Natural Gas only. These sources are located at the Studio Tours area at World Drive, Disney Center, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.



## PERMITTEE:

Walt Disney World Company

Attention: Bruce Laval, Director  
Studio Tours

## I. D. Number:

Permit/Certification Number:

AC48-151515

Date of Issue:

Expiration Date: 7/30/89

## SPECIFIC CONDITIONS:

1. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to Rule 17-2.620(2) F.A.C. Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to Rule 17-2.100(131) F.A.C. Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to Rule 17-2.100(132) F.A.C.
- H/A 2. There shall be no discharges of liquid effluents or contaminated runoff to surface or ground water without prior approval from this office.
3. All unconfined emissions of particulate matter generated at this site shall be adequately controlled. (Rule 17-2.610(3), F.A.C.) Area must be watered down should unconfined emissions occur.
- N/A 4. This permit does not preclude compliance with any applicable local permitting requirements and regulations.
- H/A 5. The emissions from these sources are expected to total 5.81 tons/year of Nitrogen Oxides.
6. Each Hot water Generator will be fired with Natural Gas only.
7. The permitted heat input rate for each Hot Water Generator is specified on Permit Page No. 1.
8. Each Hot Water Generator is permitted to operate 8760 hours/year.
9. The visible emissions for each Hot Water Generator must comply with Rule 17-2.610(2)F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.
10. Each source must be tested in accordance with DER Method 9 within 30 days after being placed in operation.
11. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).

PERMITTEE:  
Walt Disney World Company  
  
Attention: Bruce Laval, Director  
Studio Tours

I. D. Number:  
Permit/Certification Number:  
AC48-151515  
Date of Issue:  
Expiration Date: 7/30/89

SPECIFIC CONDITIONS:

- 12. This plant is required to operate within 10 percent of permitted capacity during the compliance tests.
- 13. The type of fuel and the heat input to this source must be entered on the visible emission test report.
- 14. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
- 15. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit. (Rule 17-4.09 Florida Administrative Code).

obs

To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit the application fee, along with compliance test results and Certification of Completion of Construction to the Department's Central Florida District office 60 days prior to the expiration date of the construction permit.

ISSUED 11-17-88

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*AME* *Alexander*

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803  
(407) 894-7555



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: Bob Penn, Director -  
Environmental Affairs

Permit Number: AO48-252008  
Date of Issue:  
Expiration Date: June 30, 1999  
County: Orange  
Latitude/Longitude:  
28°21'25"N/81°33'42"W  
UTM: 17-443.1 KmE; 3137.7 KmN  
Project: Nine Hot Water Generators  
(Studio Tours)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate nine hot water generators (studio tours) as follows:

<u>Designation</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hr)</u>
STB-1	A.O. Smith, Model HWT-1240	1.3
STB-2A	Bryan, Model CL-150	1.6
STB-2B	Lochinvar, Model CWM-1210	1.3
STB-3	Bryan, Model CL-120	1.3
STB-4	Bryan, Model CL-180	1.9
STB-5	Ray Pak, Model WT-1223	1.2
STB-6	Thermosteam, Model FG60	2.5
STB-7	Lochinvar, Model CWM-1210	1.3
STB-8	A.O. Smith, Model HWT-1240	1.3

This source is located at the Studio Tours area at World Drive, Disney Center, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

Walt Disney World Company

I.D. Number:

Permit Number: A048-228914

Expiration Date: May 30, 1998

County: Orange

Attention: Robert H. Penn, Director,  
Environmental Affairs

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS**

**OPERATING LIMITS**

1. Each source is permitted to operate continuously, per the application.
2. Each source will be fired with natural gas or propane only, per the application.
3. The maximum permitted heat input rates are as stated on permit page no. 1, per the application.

**EMISSION LIMITS**

4. The visible emissions from each source must comply with Rule 17-296.310, F.A.C. (20% opacity limit).

**COMPLIANCE TESTING**

5. The source must be tested for visible emissions for thirty minutes or the length of the batch/cycle with DEP Method 9 at least ninety days prior to the permit expiration date (Rule 17-297.401, F.A.C.).
6. The air compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
7. The source is required to operate within 90 to 100 percent of permitted capacity during the compliance test.
8. The type of fuel and the heat input to this source must be entered on the visible emission report.
9. The required test report shall be filed with the department no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DEP Form 17-210.900(4) for the preceding calendar year.

PERMITTEE:

Walt Disney World Company

I.D. Number:

Permit Number: A048-228914

Expiration Date: May 30, 1998

County: Orange

Attention: Robert H. Penn, Director,  
Environmental Affairs

**SPECIFIC CONDITIONS**

(continued)

**EXPIRATION DATE**

11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED 7-20-94

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

c m c

Alexander  
A. Alexander, P.E.

District Director

3319 Maguire Boulevard, Suite 232

Orlando, Florida 32803



# Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: Bob Penn, Director -  
Environmental Affairs

Permit Number: A048-252008  
Date of Issue:  
Expiration Date: June 30, 1999  
County: Orange  
Latitude/Longitude:  
28°21'25"N/81°33'42"W  
UTM: 17-443.1 KmE; 3137.7 KmN  
Project: Nine Hot Water Generators  
(Studio Tours)

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate nine hot water generators (studio tours) as follows:

<u>Designation</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hr)</u>
STB-1	A.O. Smith, Model HWT-1240	1.3
STB-2A	Bryan, Model CL-150	1.6
STB-2B	Lochinvar, Model CWM-1210	1.3
STB-3	Bryan, Model CL-120	1.3
STB-4	Bryan, Model CL-180	1.9
STB-5	Ray Pak, Model WT-1223	1.2
STB-6	Thermosteam, Model FG60	2.5
STB-7	Lochinvar, Model CWM-1210	1.3
STB-8	A.O. Smith, Model HWT-1240	1.3

This source is located at the Studio Tours area at World Drive, Disney Center, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

**PERMITTEE:**

Walt Disney World Company

I.D. Number:

Permit Number: ~~AG 17-27384~~

Expiration Date: May 30, 1998

County: Orange

Attention: Robert H. Penn, Director,  
Environmental Affairs

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS**

OPERATING LIMITS

1. Each source is permitted to operate continuously, per the application.
2. Each source will be fired with natural gas or propane only, per the application.
3. The maximum permitted heat input rates are as stated on permit page no. 1, per the application.

EMISSION LIMITS

4. The visible emissions from each source must comply with Rule 17-296.310, F.A.C. (20% opacity limit).

COMPLIANCE TESTING

5. The source must be tested for visible emissions for thirty minutes or the length of the batch/cycle with DEP Method 9 at least ninety days prior to the permit expiration date (Rule 17-297.401, F.A.C.).
6. The air compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
7. The source is required to operate within 90 to 100 percent of permitted capacity during the compliance test.
8. The type of fuel and the heat input to this source must be entered on the visible emission report.
9. The required test report shall be filed with the department no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
10. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DEP Form 17-210.900(4) for the preceding calendar year.

PERMITTEE:  
Walt Disney World Company

I.D. Number:  
Permit Number: ~~AC48-220914~~  
Expiration Date: May 30, 1998  
County: Orange

Attention: Robert H. Penn, Director,  
Environmental Affairs

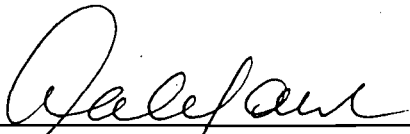
**SPECIFIC CONDITIONS**  
(continued)

**EXPIRATION DATE**

- 11. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED 7-20-94

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

cmc   
A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803



Post-It™ brand fax transmittal memo 7671 # of pages 2

To: Bruce Mitchell	From: J-Turner
Co: DEP	Co:
Dept:	Phone #
Fax #: 850-922-6779	Fax #

DE

LATION

**CENTRAL FLORIDA DISTRICT**  
 3319 MAGUIRE BOULEVARD  
 SUITE 232  
 ORLANDO, FLORIDA 32603-3787



BOB MARTINEZ  
 GOVERNOR  
 DALE TWACHTMANN  
 SECRETARY  
 ALEX ALEXANDER  
 DISTRICT MANAGER

**Permittee:**  
 Walt Disney World Co.  
 Post Office Box 40  
 Lake Buena Vista, FL 32830

**Attention:** Philip N. Smith,  
 Senior Vice President, Administration

**I. D. Number:**  
 Permit/Certification  
 Number; AC48-149215  
 Date of Issue: 6/17/88  
 Expiration Date: 12/30/88  
 County: Orange  
 Latitude/Longitude:  
 28°24'49"N/81°35'13"W  
 UTM: 17-442.5 KmE; 3142.8 KmN  
 Project: Eighteen Hot Water  
 Generators and One Diesel  
 Electric Generator - Grand  
 Floridian Hotel

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can construct Eighteen Hot Water Generators and One Diesel Electric Generator at the Grand Floridian Hotel. Each Hot Water Generator is fired by Natural Gas only. The Diesel Electric Generator is a Cummins Model KTTA38-GS-1, 900KW, and is utilized as an emergency electrical generator fired by No. 2 Diesel Fuel only.

Each Hot Water Generator is described as follows:

Description	Manufacturer	Maximum Heat Input Rate (MMBTU/hr)
a. Main Bldg Domestic Hot Water No. 1	A.O. Smith, Model BTP-600-2500	2.5
b. Main Bldg Domestic Hot Water No. 2	A.O. Smith, Model BTP-600-2500	2.5

Permittee:  
Walt Disney World Co.

Attention: Philip N. Smith

I. D. Number:  
Permit/Certification  
Number: AC48-149215  
Date of Issue:  
Expiration Date: 12/30/88  
County: Orange

<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hr)</u>
c. Seafood Restaurant Domestic Hot Water	A.O. Smith, Model BIP-400-2500	2.5
d. Main Bldg Heating Hot Water No. 1	Burnnam, Model 3PW-200-50-LB	8.4
e. Main Bldg Heating Hot Water No. 2	Burnnam, Model 3PW-200-50-LB	8.4
f. Lodge Bldg No. 2, Boiler No. 1	Bryan, Model K-300-WT	3.0
g. Lodge Bldg No. 2, Boiler No. 2	Bryan, Model K-300-WT	3.0
h. Lodge Bldg No. 3, Boiler No. 1	Bryan, Model CL-210	2.1
i. Lodge Bldg No. 3, Boiler No. 2	Bryan, Model CL-210	2.1
j. Lodge Bldg No. 4, Boiler No. 1	Bryan, Model CL-300	3.0
k. Lodge Bldg No. 4, Boiler No. 2	Bryan, Model CL-300	3.0
l. Lodge Bldg No. 5, Boiler No. 1	Bryan, Model K-350-WT	3.5
m. Lodge Bldg No. 5, Boiler No. 2	Bryan, Model K-350-WT	3.5
n. Lodge Bldg No. 6, Boiler No. 1	Bryan, Model K-350-WT	3.5
o. Lodge Bldg No. 6, Boiler No. 2	Bryan, Model K-350-WT	3.5

Permittee:  
Walt Disney World Co.

Attention: Philip N. Smith

I. D. Number:  
Permit/Certification  
Number: AC48-149215  
Date of Issue:  
Expiration Date: 12/30/88  
County: Orange

<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hr)</u>
p. Main Bldg Kitchen Hot Water No. 1	Nickelshield, Model 875N200ATP	0.7
q. Main Bldg Kitchen Hot Water No. 2	Nickelshield, Model 875N200ATP	0.7
r. Swimming Pool Hot Water	Ray Pak, Model 2001	2.1

These sources are located at the Grand Floridian Hotel at 4401 Floridian Way, Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

Permittee:  
Walt Disney World Co.

I. D. Number:  
Permit/Certification  
Number: AC48-149215  
Date of Issue:  
Expiration Date: 12/30/88  
County: Orange

Attention: Philip N. Smith

SPECIFIC CONDITIONS:

1. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to Rule 17-2.620(2) F.A.C. Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to Rule 17-2.100(131) F.A.C. Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to Rule 17-2.100(132) F.A.C.
- N/A 2. There shall be no discharges of liquid effluents or contaminated runoff to surface or ground water without prior approval from this office.
3. All unconfined emissions of particulate matter generated at this site shall be adequately controlled. (Rule 17-2.610(3), F.A.C.) Area must be watered down should unconfined emissions occur.
- N/A 4. This permit does not preclude compliance with any applicable local permitting requirements and regulations.
5. Each Hot Water Generator will be fired with Natural Gas only.
6. The Diesel Electric Generator will be fired with No. 2 Diesel Fuel only.
7. The permitted heat input rate for each Hot Water Generator is specified on Permit Page No. 1a, 1b, and 1c.
8. Each Hot Water Generator is permitted to operate 8760 hours/year.
9. The Diesel Electric Generator is permitted to operate 312 hours/year.
10. The visible emissions for each Hot Water Generator and Diesel Electric Generator must comply with Rule 17-2.610(2)F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.
11. Each source must be tested in accordance with DER Method 9 within 30 days after being placed in operation.
12. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).

Permittee:  
Walt Disney World Co.

Attention: Philip N. Smith,

I. D. Number:  
Permit/Certification  
Number: AC48-149215  
Date of Issue:  
Expiration Date: 12/30/88  
County: Orange

SPECIFIC CONDITIONS:

- 13. This plant is required to operate within 10 percent of permitted capacity during the compliance tests.
  - 14. The type of fuel and the heat input to this source must be entered on the visible emission test report.
  - 15. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C).
  - 16. The construction shall reasonably conform to the plans and schedule submitted in the application. If the permittee is unable to complete construction on schedule, he must notify the Department in writing 60 days prior to the expiration of the construction permit and submit a new request for an extension of the construction permit. (Rule 17-4.09 Florida Administrative Code).
- To obtain a permit to operate, the permittee must demonstrate compliance with the conditions of the construction permit and submit the application fee, along with compliance test results and Certification of Completion of Construction to the Department's Central Florida District office 60 days prior to the expiration date of the construction permit.

ISSUED 6-17-88

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* Alexander  
A. Alexander  
District Manager  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803  
(407) 894-7555



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: Robert Penn, Director,  
Environmental Affairs

Permit Number: AO48-241327  
Date of Issue: 1/19/94  
Expiration Date: December 30, 1998  
County: Orange  
Latitude/Longitude:  
28°24'49"N/81°35'13"W  
UTM: 17-442.5 KmE; 3142.8 KmN  
Project: Eighteen Hot Water  
Generators

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee may operate eighteen hot water generators at the Grand Floridian Hotel. A diesel electric generator (Cummins Model KTA38-GS-1, 900KW) is utilized as an emergency electrical generator and is permit exempt by Rule 17-210.300(3)(t), F.A.C.

Each Hot Water Generator is described as follows:

<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
✓ a) Main Bldg Domestic Hot Water No. 1	Nickelshield, Model 3125N600ATP	2.5
✓ b) Main Bldg Domestic Hot Water No. 2	Nickelshield, Model 3125N600ATP	2.5
✓ c) Seafood Restaurant Domestic Hot Water	Nickelshield, Model 3125N600ATP	2.5
d) ✓ Main Bldg Heating Hot Water No. 1	Burnnam, Model 3PW-200-50-LB	8.4
e) ✓ Main Bldg Heating Hot Water No. 2	Burnnam, Model 3PW-200-50-LB	8.4

PERMITTEE:

Walt Disney World Company

Permit Number: AO48-241327

Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

	<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
✓ f)	Lodge Bldg No. 2, Boiler No. 1	Bryan, Model K-300-WT	3.0
✓ g)	Lodge Bldg No. 2, Boiler No. 2	Bryan, Model K-300-WT	3.0
✓ h)	Lodge Bldg No. 3, Boiler No. 1	Bryan, Model CL-210	2.1
✓ i)	Lodge Bldg No. 3, Boiler No. 2	Bryan, Model CL-210	2.1
✓ j)	Lodge Bldg No. 4, Boiler No. 1	Bryan, Model CL-300	3.0
✓ k)	Lodge Bldg No. 4, Boiler No. 2	Bryan, Model CL-300	3.0
✓ l)	Lodge Bldg No. 5, Boiler No. 1	Bryan, Model K-350-WT	3.5
✓ m)	Lodge Bldg No. 5, Boiler No. 2	Bryan, Model K-350-WT	3.5
✓ n)	Lodge Bldg No. 6, Boiler No. 1	Bryan, Model K-350-WT	3.5
✓ o)	Lodge Bldg No. 6, Boiler No. 2	Bryan, Model K-350-WT	3.5
✓ p)	Main Bldg Kitchen Hot Water No. 1	Nickelshield, Model 875N200ATP	0.7
q)	Main Bldg Kitchen Hot Water No. 2	Nickelshield, Model 875N200ATP	0.7
✓ r)	Swimming Pool Hot Water	Ray Pak, Model 2001	2.1

These sources are located at the Grand Floridian Hotel at 4401 Floridian Way, Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:

Walt Disney World Company

Permit Number: AO48-241327

Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

**GENERAL CONDITIONS:**

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

**SPECIFIC CONDITIONS**

**OPERATING LIMITS**

1. Each source is permitted to operate continuously.
2. Each source will be fired with natural gas or propane only.
3. The maximum permitted heat input rates for each source are as listed on permit pages no. 1a and 1b.

**EMISSION LIMITS**

4. The visible emissions for each source must comply with Rule 17-296.310(2), F.A.C., (20% opacity) and the compliance test must be conducted in accordance with DEP Method 9 (Rule 17-297.420, F.A.C.).

**COMPLIANCE TESTING**

5. Each source must be tested in accordance with DER Method 9 for 30 minutes at least 90 days prior to permit expiration date. For any other method to be utilized the department must give prior approval.
6. The air compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
7. Each source is required to operate within 90 to 100 percent of maximum permitted capacity during the compliance tests.
8. The required test report shall be filed with this office no later than 45 days after the last sampling run of each test is completed. (Rule 17-297.570(2), F.A.C.).
9. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DEP Form 17-210.900(4) for the preceding calendar year.



PERMITTEE:  
Walt Disney World Company

Permit Number: AO48-241327  
Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

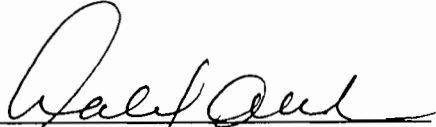
**SPECIFIC CONDITIONS**  
(Continued)

EXPIRATION DATE

10. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED 11-9-84

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



*VE only*

# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

## NOTICE OF PERMIT

Walt Disney World Co.  
Post Office Box 40  
Lake Buena Vista, Florida 32830

*30-ORL-18-0147*

Attention: Philip N. Smith,  
Senior Vice President Administration

Orange County - AP  
Eighteen Hot Water Generators and  
One Diesel Electric Generator - Grand Floridian Hotel

Dear Mr. Smith:

Enclosed is Permit Number **A048-155214**, dated 1-5-89, to operate Eighteen Hot Water Generators and One Diesel Electric Generator at the Grand Floridian Hotel, issued pursuant to Section 403.087, Florida Statutes.

Persons whose substantial interests are affected by this permit have a right, pursuant to Section 120.57, Florida Statutes, to petition for an administrative determination (hearing), unless the right to petition has been waived. The petition must conform to the requirements of Chapters 17-103 F.A.C., and must be filed (received) in the Department's Office of General Counsel, 2600 Blair Stone Road, Tallahassee 32399-2400, within fourteen (14) days of receipt of this notice. Failure to file a petition within that time constitutes a waiver of any right such person has to an administrative determination pursuant to Section 120.57, Florida Statutes.

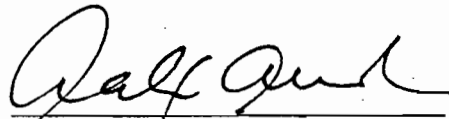
The petition shall contain the following information; (a) the name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the department to take with respect to the department's action or proposed action.

This Order (Permit) is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraph. Upon the timely filing of a petition this Permit will not be effective until further Order of the Department.

Any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate district Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

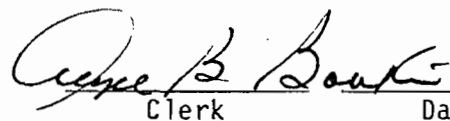
Executed in Orlando, Florida.


STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803  
(407) 894-7555

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
Section 120.52, Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

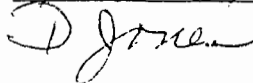
 1/6/89  
Clerk Date

AA/jtj 

Copies furnished to:  
Joseph L. Tessitore, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT and all copies were mailed before the close of business on 1-6-89 to the listed persons.





# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767 • 407-894-7555

Bob Martinez, Governor

Dale Twachtmann, Secretary

John Shearer, Assistant Secretary  
Alex Alexander, Deputy Assistant Secretary

Permittee:  
Walt Disney World Co.  
Post Office Box 40  
Lake Buena Vista, Florida 32830  
  
Attention: Philip N. Smith,  
Senior Vice President, Administration

I. D. Number:  
Permit/Certification  
Number: **A048-155214**  
Date of Issue:  
Expiration Date: 1/3/94  
County: Orange  
Latitude/Longitude:  
28°24'49"N/81°35'13"W  
UTM: 17-442.5 KmE; 3142.8 KmN  
Project: Eighteen Hot Water  
Generators and One Diesel  
Electric Generator-Grand  
Floridian Hotel

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate Eighteen Hot Water Generators and One Diesel Electric Generator at the Grand Floridian Hotel. Each Hot Water Generator is fired by Natural Gas only. The Diesel Electric Generator is a Cummins Model KTTA38-GS-1, 900KW, and is utilized as an emergency electrical generator fired by No. 2 Diesel Fuel only.

Each Hot Water Generator is described as follows:

	<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
a.	Main Bldg Domestic Hot Water No. 1	Nickelshield, Model 3125N600ATP	2.5
b.	Main Bldg Domestic Hot Water No. 2	Nickelshield, Model 3125N600ATP	2.5
c.	Seafood Restaurant Domestic Hot Water	Nickelshield, Model 3125N600ATP	2.5
d.	Main Bldg Heating Hot Water Heater No. 1	Burnnam, Model 3PW-200-50-LB	8.4
e.	Main Bldg Heating Hot Water Heater No. 2	Burnnam, Model 3PW-200-50-LB	8.4

PERMITTEE:  
Walt Disney World Co.

Attention: Philip N. Smith,  
Senior Vice President, Administration

I. D. Number:  
Permit/Certification Number:  
A048-155214  
Date of Issue:  
Expiration Date: 1/3/94

	<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
f.	Lodge Bldg No. 2, Boiler No. 1	Bryan, Model K-300-WT	3.0
g.	Lodge Bldg No. 2, Boiler No. 2	Bryan, Model K-300-WT	3.0
h.	Lodge Bldg No. 3, Boiler No. 1	Bryan, Model CL-210	2.1
i.	Lodge Bldg No. 3, Boiler No. 2	Bryan, Model CL-210	2.1
j.	Lodge Bldg No. 4, Boiler No. 1	Bryan, Model CL-300	3.0
k.	Lodge Bldg No. 4, Boiler No. 2	Bryan, Model CL-300	3.0
l.	Lodge Bldg No. 5, Boiler No. 1	Bryan, Model K-350-WT	3.5
m.	Lodge Bldg No. 5, Boiler No. 2	Bryan, Model K-350-WT	3.5
n.	Lodge Bldg No. 6, Boiler No. 1	Bryan, Model K-350-WT	3.5
o.	Lodge Bldg No. 6, Boiler No. 2	Bryan, Model K-350-WT	3.5
p.	Main Bldg Kitchen Hot Water No. 1	Nickelshield, Model 875N200ATP	0.7
q.	Main Bldg Kitchen Hot Water No. 2	Nickelshield, Model 875N200ATP	0.7
r.	Swimming Pool Hot Water	Ray Pak, Model 2001	2.1

These sources are located at the Grand Floridian Hotel at 4401 Floridian Way,  
Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Walt Disney World Co.

Attention: Philip N. Smith,  
Senior Vice President, Administration

I. D. Number:  
Permit/Certification Number:  
A048-155214  
Date of Issue:  
Expiration Date: 1/3/94

SPECIFIC CONDITIONS:

1. No person shall cause, suffer, allow or permit the discharge of air pollutants which cause or contribute to an objectionable odor pursuant to Rule 17-2.620(2) F.A.C. Objectionable odor is defined as any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance pursuant to Rule 17-2.100(131) F.A.C. Odor is defined as a sensation resulting from stimulation of the human olfactory organ pursuant to Rule 17-2.100(132) F.A.C.
2. There shall be no discharges of liquid effluents or contaminated runoff to surface or ground water without prior approval from this office.
3. All unconfined emissions of particulate matter generated at this site shall be adequately controlled. (Rule 17-2.610(3), F.A.C.) Area must be watered down should unconfined emissions occur.
4. This permit does not preclude compliance with any applicable local permitting requirements and regulations.
5. Each Hot Water Generator will be fired with Natural Gas only.
6. The Diesel Electric Generator will be fired with No. 2 Diesel Fuel only.
7. The permitted heat input rate for each Hot Water Generator is specified on Permit Page No. 1a, 1b.
8. Each Hot Water Generator is permitted to operate 8760 hours/year.
9. The Diesel Electric Generator is permitted to operate 312 hours/year.
10. The visible emissions for each Hot Water Generator and Diesel Electric Generator must comply with Rule 17-2.610(2)F.A.C. and the compliance test must be conducted in accordance with Rule 17-2.700(6)(b)9, (DER Method #9) F.A.C.
11. Each source must be tested for visible emissions in accordance with DER Method 9 at least ninety (90) days prior to permit expiration date.
12. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).

PERMITTEE:  
Walt Disney World Co.

Attention: Philip N. Smith,  
Senior Vice President, Administration

I. D. Number:  
Permit/Certification Number:  
A048-155214  
Date of Issue:  
Expiration Date: 1/3/94

SPECIFIC CONDITIONS:

- 13. Each source is required to operate within 10 percent of permitted capacity during the compliance tests.
- 14. The type of fuel and the heat input to this source must be entered on the visible emission test report.
- 15. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a),(b) and (c), F.A.C.).
- 16. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

ISSUED 1-6-89

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmc* Alexander  
A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803  
(407) 894-7555



# Florida Department of Environmental Protection

Lawton Chiles  
Governor

Central District  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767

Virginia B. Wetherell  
Secretary

**Permittee:**

Walt Disney World Company  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Permit Number: AO48-241327  
Date of Issue:  
Expiration Date: December 30, 1998  
County: Orange  
Latitude/Longitude:  
28°24'49"N/81°35'13"W  
UTM: 17-442.5 KmE; 3142.8 KmN  
Project: Eighteen Hot Water  
Generators

Attention: Robert Penn, Director,  
Environmental Affairs

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee may operate eighteen hot water generators at the Grand Floridian Hotel. A diesel electric generator (Cummins Model KTTA38-GS-1, 900KW) is utilized as an emergency electrical generator and is permit exempt by Rule 17-210.300(3)(t), F.A.C.

Each Hot Water Generator is described as follows:

<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
a) Main Bldg Domestic Hot Water No. 1	Nickelshield, Model 3125N600ATP	2.5
b) Main Bldg Domestic Hot Water No. 2	Nickelshield, Model 3125N600ATP	2.5
c) Seafood Restaurant Domestic Hot Water	Nickelshield, Model 3125N600ATP	2.5
d) Main Bldg Heating Hot Water No. 1	Burnnam, Model 3PW-200-50-LB	8.4
e) Main Bldg Heating Hot Water No. 2	Burnnam, Model 3PW-200-50-LB	8.4



# Best Available Copy

PERMITEE:

Walt Disney World Company

Permit Number: AO48-241327

Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

	<u>Description</u>	<u>Manufacturer</u>	<u>Maximum Heat Input Rate (MMBTU/hour)</u>
f)	Lodge Bldg No. 2, Boiler No. 1	Bryan, Model K-300-WT	3.0
g)	Lodge Bldg No. 2, Boiler No. 2	Bryan, Model K-300-WT	3.0
h)	Lodge Bldg No. 3, Boiler No. 1	Bryan, Model CL-210	2.1
i)	Lodge Bldg No. 3, Boiler No. 2	Bryan, Model CL-210	2.1
j)	Lodge Bldg No. 4, Boiler No. 1	Bryan, Model CL-300	3.0
k)	Lodge Bldg No. 4, Boiler No. 2	Bryan, Model CL-300	3.0
l)	Lodge Bldg No. 5, Boiler No. 1	Bryan, Model K-350-WT	3.5
m)	Lodge Bldg No. 5, Boiler No. 2	Bryan, Model K-350-WT	3.5
n)	Lodge Bldg No. 6, Boiler No. 1	Bryan, Model K-350-WT	3.5
o)	Lodge Bldg No. 6, Boiler No. 2	Bryan, Model K-350-WT	3.5
p)	Main Bldg Kitchen Hot Water No. 1	Nickelshield, Model 875N200ATP	0.7
q)	Main Bldg Kitchen Hot Water No. 2	Nickelshield, Model 875N200ATP	0.7
r)	Swimming Pool Hot Water	Ray Pak, Model 2001	2.1

These sources are located at the Grand Floridian Hotel at 4401 Floridian Way, Buena Vista, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

# Best Available Copy

PERMITTEE:  
Walt Disney World Company

Permit Number: A048-241327  
Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

## GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-296.320(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

## SPECIFIC CONDITIONS

### OPERATING LIMITS

1. Each source is permitted to operate continuously.
2. Each source will be fired with natural gas or propane only.
3. The maximum permitted heat input rates for each source are as listed on permit pages no. 1a and 1b.

### EMISSION LIMITS

4. The visible emissions for each source must comply with Rule 17-296.310(2), F.A.C., (20% opacity) and the compliance test must be conducted in accordance with DEP Method 9 (Rule 17-297.420, F.A.C.).

### COMPLIANCE TESTING

5. Each source must be tested in accordance with DER Method 9 for 30 minutes at least 90 days prior to permit expiration date. For any other method to be utilized the department must give prior approval.
6. The air compliance section of this office shall be notified in writing at least fifteen (15) days in advance of the compliance tests (Rule 17-297.340(1)(i), F.A.C.).
7. Each source is required to operate within 90 to 100 percent of maximum permitted capacity during the compliance tests.
8. The required test report shall be filed with this office no later than 45 days after the last sampling run of each test is completed (Rule 17-297.570(2), F.A.C.).
9. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DEP Form 17-210.900(4) for the preceding calendar year.

Best Available Copy

Walt Disney World Company

Permit Number: AO48-241327  
Expiration Date: December 30, 1998

Attention: Robert Penn, Director,  
Environmental Affairs

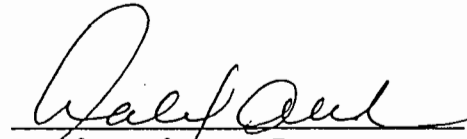
SPECIFIC CONDITIONS  
(Continued)

EXPIRATION DATE

- 10. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.090, F.A.C.).

ISSUED 119-17

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



A. Alexander, P.E.  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

Table A-19. Summary of Regulatory Applicability for the Walt Disney World Resort Complex  
EPCOT-DG-1 and EPCOT-DG-2 Emission Sources

Regulation	Citation
<b>Chapter 62-210, F.A.C. — Stationary Sources—General Requirements</b>	
Annual Operating Report for Air Pollutant Emitting Facility	§62-210.370(2), F.A.C.
Stack Height Policy	62-210.550, F.A.C.
<b>Chapter 62-297 — Stationary Sources—Emissions Monitoring</b>	
General Compliance Test Requirements	§62-297.310, F.A.C.
Compliance Test Methods	§62-297.401, F.A.C.
<b>Operating and Construction Permits</b>	
	AO48-196703

Source: ECT, 1996.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

**FACILITY ID 300RL480109 - EPCOT Central Energy Plant**

Permittee:  
Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, FL 32830  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification  
Number: **A048-196703**  
Date of Issue:  
Expiration Date: August 25, 1996  
County: Orange  
Latitude/Longitude:  
28°22'30"N/81°32'30"W  
UTM: 17-446.5 KmE; 3138.6 KmN  
Project: **EPCOT Center Diesel**  
**Generator No. 1 and 2**

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate EPCOT Center Diesel Generators No. 1 and 2. Each Diesel Generator is a 3,600 horsepower Stewart and Stevenson large bore diesel engine, Model S-20-645-E48, equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power.

These sources are located at 751 Backstage Lane, Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

GENERAL CONDITIONS:

1. *The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.*
2. *This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.*
3. *As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.*
4. *This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.*
5. *This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.*
6. *The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.*
7. *The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:*
  - (a) *Have access to and copy any records that must be kept under conditions of the permit;*
  - (b) *Inspect the facility, equipment, practices, or operations regulated or required under this permit; and*
  - (c) *Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.*

*Reasonable time may depend on the nature of the concern being investigated.*
8. *If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:*
  - (a) *A description of and cause of noncompliance; and*
  - (b) *The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.*

*The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.*

# Best Available Copy

PERMITTEE:

I.D. Number:  
Permit/Certification Number:  
Date of Issue:  
Expiration Date:

b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
  - Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, P.L. 92-500)
  - Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
  - a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used; and
    - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. Each source is permitted to operate 1900 hours/year.
2. Each source will be fired with No. 2 Fuel Oil only.
3. Sulfur content of the No. 2 Fuel Oil shall not exceed 0.50 percent. The Number 2 Fuel Oil shall be analyzed each time fuel is transferred to the storage tank from another source using ASTM D219 or another method approved by the Department. The analysis shall be retained and submitted to the Central District upon request.

EMISSION LIMITS

4. Emission rates of each Generator shall not exceed the following:

<u>Pollutant</u>	<u>Max. Allowable Rate (lb/hr)</u>	<u>Actual Emissions (tons/year)</u>
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	119.5
Carbon Monoxide	3.0	2.85
Volatile Organic Compounds	1.0	2.0

5. These sources will be subject to all the provisions of NSPS, Subpart FF, 40 CFR 60, when this subpart is promulgated.
6. Visible emissions shall not exceed 20 percent opacity.



PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

COMPLIANCE TESTING

7. Each source must be tested concurrently in accordance with EPA Method 20 and DER Method 9, yearly from the date of January 14, 1986. Each source must also be tested concurrently in accordance with EPA Method 5 should the opacity equal or exceed 20 percent.
8. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified in writing at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
9. This plant is required to operate within 90 to 100 percent of permitted capacity during the compliance tests.
10. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
12. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year.

EXPIRATION DATE

13. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

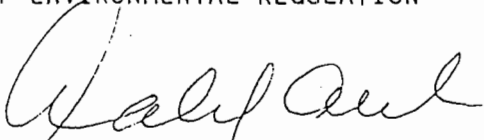
PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

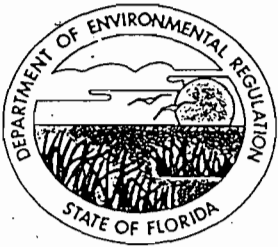
ISSUED 9-1-81

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cme* 

A. Alexander, District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

FRANK  
CC: ED  
TCO 9-11-91  
SW



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

## NOTICE OF PERMIT ISSUANCE

Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, Florida 32830

RECEIVED

SEP 12 1991

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
EPCOT Center Diesel Generator  
No. 1 and 2  
Permit No. A048-196703

12

Dear Mr. Moses:

Enclosed is Permit Number A048-196703 to operate the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

9/9-cc: B. Kohl  
B. Perry  
D. Soruto


If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

c m c 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

Jane B. Boudin 9/3/91  
Clerk Date

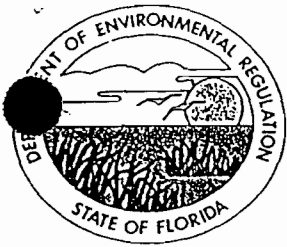
ab  
AA/jtt

Copies furnished to:

Kennard F. Kosky, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on 9/4/91 to the  
listed persons, by Christa Boudin.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:  
Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, FL 32830

Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification  
Number: A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996  
County: Orange  
Latitude/Longitude:  
28°22'30"N/81°32'30"W  
UTM: 17-446.5 KmE; 3138.6 KmN  
Project: EPCOT Center Diesel  
Generator No. 1 and 2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate EPCOT Center Diesel Generators No. 1 and 2. Each Diesel Generator is a 3,600 horsepower Stewart and Stevenson large bore diesel engine, Model S-20-645-E4B, equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power.

These sources are located at 751 Backstage Lane, Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. Each source is permitted to operate 1900 hours/year.
2. Each source will be fired with No. 2 Fuel Oil only.
3. Sulfur content of the No. 2 Fuel Oil shall not exceed 0.50 percent. The Number 2 Fuel Oil shall be analyzed each time fuel is transferred to the storage tank from another source using ASTM D219 or another method approved by the Department. The analysis shall be retained and submitted to the Central District upon request.

EMISSION LIMITS

4. Emission rates of each Generator shall not exceed the following:

<u>Pollutant</u>	<u>Max. Allowable Rate (lb/hr)</u>	<u>Actual Emissions (tons/year)</u>
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	119.5
Carbon Monoxide	3.0	2.85
Volatile Organic Compounds	1.0	2.0

5. These sources will be subject to all the provisions of NSPS, Subpart FF, 40 CFR 60, when this subpart is promulgated.
6. Visible emissions shall not exceed 20 percent opacity.

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

COMPLIANCE TESTING

7. Each source must be tested concurrently in accordance with EPA Method 20 and DER Method 9, yearly from the date of January 14, 1986. Each source must also be tested concurrently in accordance with EPA Method 5 should the opacity equal or exceed 20 percent.
8. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified in writing at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
9. This plant is required to operate within 90 to 100 percent of permitted capacity during the compliance tests.
10. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
12. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year.

EXPIRATION DATE

13. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).



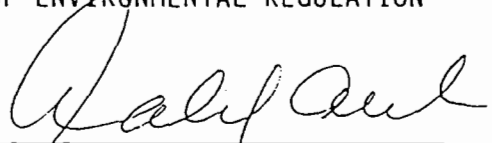
PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

ISSUED 9-1-91

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cmr* 

A. Alexander, District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

June 16, 1995

6/26

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
EPCOT Center Diesel Generators No. 1 and No. 2  
Construction Permits AC 48-105243 and AC 48-106650 and  
GE Gas Turbine with Heat Recovery Steam Generator,  
PSD-FL-123 and AC 48-137740

The Department is in receipt of your letter dated April 17, 1995, requesting a revision of Specific Conditions Nos. 2 and 7 of the above mentioned permits. The Department considered your request and agrees to revise your permits as proposed in your letters.

The revision of Specific Condition No. 2 of each permit is finalized as follows:

SPECIFIC CONDITION No. 2 FOR PERMITS AC 48-105243 and AC 48-106650  
EPCOT CENTER DIESEL GENERATOR No. 1 and No. 2

FROM:

Old Specific Condition No.2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Actual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	1.5	2.8
Volatile Organic Compounds	2.0	2.0

Mr. Thomas M. Moses  
June 16, 1995  
Page Two

TO:

New Specific Condition No. 2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Annual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	2.9	2.8
Volatile Organic Compounds	2.1	2.0

SPECIFIC CONDITION No. 7 FOR PERMITS PSD-FL-123 & AC 48-137740  
GE GAS TURBINE WITH HEAT RECOVERY STEAM GENERATOR

RCID COMMENT:

RCID requested to delete reference to Rule 62-252.300, F.A.C., since this rule applies to Gasoline Dispensing Facilities.

DEPARTMENT RESPONSE:

The Department acknowledges that Rule 62.252.300, F.A.C. does not apply to this source. However, this reference will not be deleted since it is part of the general statement of Rule 62-210.300(3), F.A.C., Exemptions. For clarification, specific condition No. 7 will be revised as follows:

FROM:

Old Specific Condition No.7

Pursuant to Rule 62-210.300(3)(u) F.A.C., this condition will be deleted.

It should be noted that pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., is subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements.

FRANK  
CC: Ed  
TCO  
9-11-91  
SW



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

## NOTICE OF PERMIT ISSUANCE

Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, Florida 32830

RECEIVED

SEP 12 1991

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
EPCOT Center Diesel Generator  
No. 1 and 2  
Permit No. A048-196703 ✓

12

Dear Mr. Moses:

Enclosed is Permit Number A048-196703 to operate the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

9/9-cc: B. Kohl  
B. Penn  
A. Brown

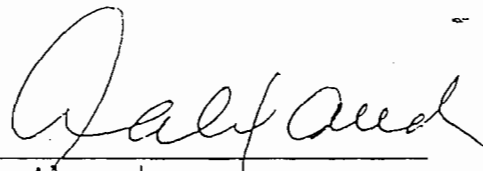
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

cmc 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

Jane B. Borkin 9/3/91  
Clerk Date

az

AA/jtt

Copies furnished to:

Kennard F. Kosky, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on 9/6/91 to the  
listed persons, by Shirley Borkin.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:  
Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, FL 32830  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification  
Number: A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996  
County: Orange  
Latitude/Longitude:  
28°22'30"N/81°32'30"W  
UTM: 17-446.5 KmE; 3138.6 KmN  
Project: EPCOT Center Diesel  
Generator No. 1 and 2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate EPCOT Center Diesel Generators No. 1 and 2. Each Diesel Generator is a 3,600 horsepower Stewart and Stevenson large bore diesel engine, Model S-20-645-E4B, equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power.

These sources are located at 751 Backstage Lane, Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

GENERAL CONDITIONS:

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times; access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.Reasonable time may depend on the nature of the concern being investigated.
8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
  - (a) A description of and cause of noncompliance; and
  - (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.



PERMITTEE:

I.D. Number:  
 Permit/Certification Number:  
 Date of Issue:  
 Expiration Date:

b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Section 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
- Determination of Best Available Control Technology (BACT)
  - Determination of Prevention of Significant Deterioration (PSD)
  - Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
  - b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
  - c. Records of monitoring information shall include:
    - the date, exact place, and time of sampling or measurements;
    - the person responsible for performing the sampling or measurements;
    - the date(s) analyses were performed;
    - the person responsible for performing the analyses;
    - the analytical techniques or methods used; and
    - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. Each source is permitted to operate 1900 hours/year.
2. Each source will be fired with No. 2 Fuel Oil only.
3. Sulfur content of the No. 2 Fuel Oil shall not exceed 0.50 percent. The Number 2 Fuel Oil shall be analyzed each time fuel is transferred to the storage tank from another source using ASTM D219 or another method approved by the Department. The analysis shall be retained and submitted to the Central District upon request.

EMISSION LIMITS

4. Emission rates of each Generator shall not exceed the following:

<u>Pollutant</u>	<u>Max. Allowable Rate (lb/hr)</u>	<u>Actual Emissions (tons/year)</u>
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	119.5
Carbon Monoxide	3.0	2.85
Volatile Organic Compounds	1.0	2.0

5. *NA* These sources will be subject to all the provisions of NSPS, Subpart FF, 40 CFR 60, when this subpart is promulgated.
6. Visible emissions shall ~~not exceed~~ 20 percent opacity.  
*be <*

PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

#### COMPLIANCE TESTING

7. Each source must be tested concurrently in accordance with EPA Method 20 and DER Method 9, yearly from the date of January 14, 1986. Each source must also be tested concurrently in accordance with EPA Method 5 should the opacity equal or exceed 20 percent.
8. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified in writing at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
9. This plant is required to operate within 90 to 100 percent of permitted capacity during the compliance tests.
10. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
12. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year.

#### EXPIRATION DATE

13. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

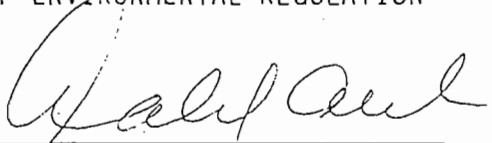
PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
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SPECIFIC CONDITIONS:  
(Continued)

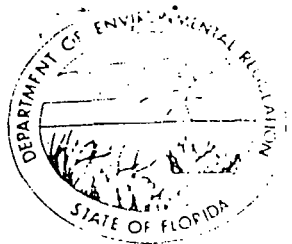
ISSUED 9-1-89

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cme* 

A. Alexander, District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803

Best Available Copy



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Virginia B. Wetherell, Secretary

## NOTICE OF PERMIT ISSUANCE

CERTIFIED MAIL

P 123 350 925

Reedy Creek Energy Services, Incorporated  
Post Office Box 10,000  
Lake Buena Vista, Florida 32830-1000

Attention: H. Robert Kohl, Director

Orange County - AP  
Hot Water Generators No. 1, 2, and 3 (EPCOT Center)

Dear Mr. Kohl:

Enclosed is Permit Number A048-224513 to operate the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

RECEIVED

MAY 07 1983

RECEIVED

REEDY CREEK ENERGY SERVICES, INC.

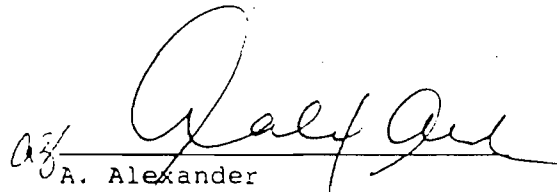
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION



A. Alexander  
District Director  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803

FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

*Joyce B. Baker* 5/5/93  
Clerk Date

AA/jtt  
57

Copies furnished to:

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on May 6, 1993 to the  
listed persons, by Theresa Boulder.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

0950109

Permittee:

Reedy Creek Improvement District

Post Office Box 40

Lake Buena Vista, FL 32830

Attention: Thomas M. Moses  
District Administrator

I. D. Number:

Permit/Certification

Number: A048-196703

Date of Issue:

Expiration Date: August 25, 1996

County: Orange

Latitude/Longitude:

28°22'30"N/81°32'30"W

UTM: J7-446.5 KmE; 3138.6 KmN

Project: EPCOT Center Diesel  
Generator No. 1 and 2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate EPCOT Center Diesel Generators No. 1 and 2. Each Diesel Generator is a 3,600 horsepower Stewart and Stevenson large bore diesel engine, Model S-20-645-E48, equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power.

These sources are located at 751 Backstage Lane, Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.



**GENERAL CONDITIONS:**

1. *The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.727, or 403.859 through 403.861, F.S. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.*
2. *This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.*
3. *As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.*
4. *This permit conveys no title to land or water, does not constitute State recognition or acknowledgement of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.*
5. *This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.*
6. *The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.*
7. *The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:*
  - (a) *Have access to and copy any records that must be kept under conditions of the permit;*
  - (b) *Inspect the facility, equipment, practices, or operations regulated or required under this permit; and*
  - (c) *Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.*

*Reasonable time may depend on the nature of the concern being investigated.*
8. *If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:*
  - (a) *A description of and cause of noncompliance; and*
  - (b) *The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.*

*The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.*

PERMITTEE:

I.D. Number:  
 Permit/Certification Number:  
 Date of Issue:  
 Expiration Date:

- b. the period of non-compliance, including exact dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the department for penalties or revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source, which are submitted to the department, may be used by the department as evidence in any enforcement case arising under the Florida Statutes or department rules, except where such use is prescribed by Section 403.73 and 403.111, Florida Statutes.
10. The permittee agrees to comply with changes in department rules and Florida Statutes after a reasonable time for compliance, provided however, the permittee does not waive any other rights granted by Florida Statutes or department rules.
11. This permit is transferable only upon department approval in accordance with Florida Administrative Code Rules 17-4.12 and 17-30.30, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the department.
12. This permit is required to be kept at the work site of the permitted activity during the entire period of construction or operation.
13. This permit also constitutes:
- ( ) Determination of Best Available Control Technology (BACT)
  - ( ) Determination of Prevention of Significant Deterioration (PSD)
  - ( ) Certification of Compliance with State Water Quality Standards (Section 401, PL 92-500)
  - ( ) Compliance with New Source Performance Standards
14. The permittee shall comply with the following monitoring and record keeping requirements:
- a. Upon request, the permittee shall furnish all records and plans required under department rules. The retention period for all records will be extended automatically, unless otherwise stipulated by the department, during the course of any unresolved enforcement action.
- b. The permittee shall retain at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation), copies of all reports required by this permit, and records of all data used to complete the application for this permit. The time period of retention shall be at least three years from the date of the sample, measurement, report or application unless otherwise specified by department rule.
- c. Records of monitoring information shall include:
- the date, exact place, and time of sampling or measurements;
  - the person responsible for performing the sampling or measurements;
  - the date(s) analyses were performed;
  - the person responsible for performing the analyses;
  - the analytical techniques or methods used; and
  - the results of such analyses.
15. When requested by the department, the permittee shall within a reasonable time furnished any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the department, such facts or information shall be submitted or corrected promptly.

PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

GENERAL CONDITIONS:

16. No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
17. This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING LIMITS

1. Each source is permitted to operate 1900 hours/year.
2. Each source will be fired with No. 2 Fuel Oil only.
3. Sulfur content of the No. 2 Fuel Oil shall not exceed 0.50 percent. The Number 2 Fuel Oil shall be analyzed each time fuel is transferred to the storage tank from another source using ASTM D219 or another method approved by the Department. The analysis shall be retained and submitted to the Central District upon request.

EMISSION LIMITS

4. Emission rates of each Generator shall not exceed the following:

<u>Pollutant</u>	<u>Max. Allowable Rate (lb/hr)</u>	<u>Actual Emissions (tons/year)</u>
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	119.5
Carbon Monoxide	3.0	2.85
Volatile Organic Compounds	1.0	2.0

5. These sources will be subject to all the provisions of NSPS, Subpart FF, 40 CFR 60, when this subpart is promulgated.
6. Visible emissions shall not exceed 20 percent opacity.

PERMITTEE:  
Reedy Creek Improvement District  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

COMPLIANCE TESTING

7. Each source must be tested concurrently in accordance with EPA Method 20 and DER Method 9, yearly from the date of January 14, 1986. Each source must also be tested concurrently in accordance with EPA Method 5 should the opacity equal or exceed 20 percent.
8. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified in writing at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
9. This plant is required to operate within 90 to 100 percent of permitted capacity during the compliance tests.
10. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
12. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year.

EXPIRATION DATE

13. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

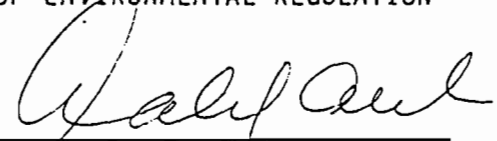
PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

ISSUED 9-1-81

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cme* 

A. Alexander, District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803



# Department of Environmental Protection

Lawton Chiles  
Governor

Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

March 30, 1995

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
EPCOT Center Diesel Generators No. 1 and No. 2  
Construction Permits AC 48-105243 & AC48-106650

The Department is in receipt of your letter dated January 25, 1995, requesting a revision of specific condition No. 2 of the above mentioned permit. The Department considered your request and agreed to revise your permit as proposed in your letter.

The revision of specific condition No. 2 of each permit is finalized as follows:

**SPECIFIC CONDITION No. 2 FOR PERMITS AC48-105243 and AC48-106650**

**FROM:**

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Actual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	1.5	2.8
Volatile Organic Compounds	1.0	2.0

Mr. Thomas M. Moses  
 March 30, 1995  
 Page Two

TO:

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Actual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	1.5	2.8
Volatile Organic Compounds	2.0	2.0

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,

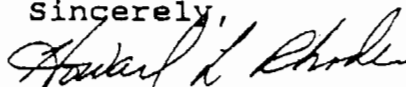
Mr. Thomas M. Moses  
March 30, 1995  
Page Three

(g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

A copy of this letter shall be filed with the construction permits, Nos. AC48-105243 and AC48-106650, and shall become part of the permits.

Sincerely,



Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/th/t

Enclosure:

Mr. T. M. Moses' letter of January 25, 1995

cc: Chuck Collins





REEDY CREEK  
IMPROVEMENT DISTRICT

P.O. BOX 10170 LAKE BUENA VISTA, FLORIDA 32833-0170 TELEPHONE (407) 828-2241

BEST AVAILABLE COPY

*CLARK*

April 17, 1995

RECEIVED

APR 18 1995

Mr. Howard L. Rhodes  
Director  
Division of Air Resources Management  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DIVISION OF AIR  
RESOURCES MANAGEMENT

RE: Reedy Creek Improvement District  
EPCOT Center Diesel Generators No. 1 and No. 2  
Construction Permits AC48-105243 & AC48-106650

Dear Mr. Rhodes:

Reedy Creek Improvement District (RCID) is in receipt of your letter dated March 30, 1995 in which the Department agrees to RCID's proposed revisions of the above referenced permits. RCID respectfully requests the Department's correction of an apparent typographical error in its amended Specific Condition No. 2. The Department's amended Specific Condition No. 2 identifies the Volatile Organic Compounds Maximum Allowable Rate as 2.0 lb/hr, rather than the Maximum Allowable Rate of 2.1 lb/hr as requested in RCID's letter of January 25, 1995.

If there are any questions or concerns relative to this request, please contact Elaine Potusky at (407) 824-6113.

Sincerely,

Thomas M. Moses  
District Administrator

cc: Chuck Collins, Central District  
Office of General Counsel



# Department of Environmental Protection

Lawton Chiles  
Governor

Two Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

Virginia B. Wetherell  
Secretary

June 16, 1995

6/26 cc: K. Kolb  
R. Astleford  
B. Penn

CERTIFIED MAIL- RETURN RECEIPT REQUESTED

Mr. Thomas M. Moses  
District Administrator  
Reedy Creek Improvement District  
Post Office Box 10170  
Lake Buena Vista, Florida 32830-0170

cc: Ed  
Bob  
ECT

Dear Mr. Moses:

RE: Reedy Creek Improvement District (RCID)  
EPCOT Center Diesel Generators No. 1 and No. 2  
Construction Permits AC 48-105243 and AC 48-106650 and  
GE Gas Turbine with Heat Recovery Steam Generator,  
PSD-FL-123 and AC 48-137740

The Department is in receipt of your letter dated April 17, 1995, requesting a revision of Specific Conditions Nos. 2 and 7 of the above mentioned permits. The Department considered your request and agrees to revise your permits as proposed in your letters.

The revision of Specific Condition No. 2 of each permit is finalized as follows:

SPECIFIC CONDITION No. 2 FOR PERMITS AC 48-105243 and AC 48-106650  
EPCOT CENTER DIESEL GENERATOR No. 1 and No. 2

FROM:

Old Specific Condition No.2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Actual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	1.5	2.8
Volatile Organic Compounds	2.0	2.0

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Mr. Thomas M. Moses  
June 16, 1995  
Page Two

TO:

New Specific Condition No. 2

Emissions rates shall not exceed:

	Max. Allowable Rate lb/hr	Annual Emissions tons/yr
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	2.9	2.8
Volatile Organic Compounds	2.1	2.0

SPECIFIC CONDITION No. 7 FOR PERMITS PSD-FL-123 & AC 48-137740  
GE GAS TURBINE WITH HEAT RECOVERY STEAM GENERATOR

RCID COMMENT:

RCID requested to delete reference to Rule 62-252.300, F.A.C., since this rule applies to Gasoline Dispensing Facilities.

DEPARTMENT RESPONSE:

The Department acknowledges that Rule 62.252.300, F.A.C. does not apply to this source. However, this reference will not be deleted since it is part of the general statement of Rule 62-210.300(3), F.A.C., Exemptions. For clarification, specific condition No. 7 will be revised as follows:

FROM:

Old Specific Condition No.7

Pursuant to Rule 62-210.300(3)(2) F.A.C., this condition will be deleted.

It should be noted that pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., is subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements.

Mr. Thomas M. Moses  
June 16, 1995  
Page Three

Furthermore, pursuant to Rule 62-213.420(3)(m), F.A.C., this source, although currently exempt from permitting, is required to be included in the Title V operation permit application.

TO:

**New Specific Condition No. 7**

In accordance with Rule 62-210.300(3)(u) F.A.C., the Black Start Cummings No.2 fuel oil fired emergency electric generator is exempt from permitting requirements.

Pursuant to Rule 62-210.300(3), F.A.C., this source, although exempt from permitting requirements of Chapter 62-210 and Chapter 62-4, F.A.C., "shall be subject to any applicable emission standard specified in Rule 62-252.300, and 62-296, F.A.C., other than Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) requirements."

Furthermore, pursuant to Rule 62-213.420(3)(m), F.A.C., this source, although currently exempt from permitting, is required to be included in the Title V operation permit application.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes (F.S.). The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400. Petitions filed by the applicant of the amendment request/application and the parties listed below must be filed within 14 days of receipt of this amendment. Petitions filed by other persons must be filed within 14 days of the amendment issuance or within 14 days of their receipt of this amendment, whichever occurs first. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, F.S.

The Petition shall contain the following information:

- (a) The name, address and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

Mr. Thomas M. Moses  
June 16, 1995  
Page Four

- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and,
- (g) A statement of the relief sought by petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this amendment. Persons whose substantial interests will be affected by any decision of the Department with regard to the amendment request/application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this amendment in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, Florida Administrative Code.

A copy of this letter shall be filed with the construction permits, Nos. AC48-105243, AC48-106650 and AC48-137740 and shall become part of each permit.

Sincerely,



for

Howard L. Rhodes, Director  
Division of Air Resources  
Management

HLR/th/t

Enclosure:

Mr. T. M. Moses' letter of April 17 and June 2, 1995

Mr. Thomas M. Moses  
June 16, 1995  
Page Five

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this PERMIT AMENDMENT and all copies were mailed by certified mail before the close of business on 6-20-95 to the listed persons.

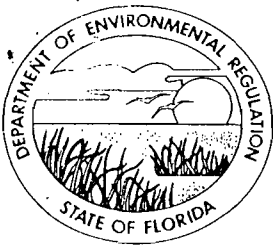
Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED,  
on this date, pursuant to  
120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is hereby  
acknowledged.

K. J. Ober 6-20-95  
Clerk Date

Copies to be furnished to:

Chuck Collins



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

30-026-48-109

## NOTICE OF PERMIT ISSUANCE

Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, Florida 32830

Attention: Thomas M. Moses, District Administrator

Orange County - AP  
EPCOT Center Diesel Generator  
No. 1 and 2  
Permit No. A048-196703

NSPS SOURCE

2 GENERATORS

NO<sub>x</sub> MAX. ALLOW

239.4 T

YR.

+ OTHERS

Dear Mr. Moses:

Enclosed is Permit Number A048-196703 to operate the above referenced source issued pursuant to Section(s) 403.087, Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, within 14 days of receipt of this Permit. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within this time period shall constitute a waiver of any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The Petition shall contain the following information; (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed; (b) A statement of how and when each petitioner received notice of the Department's action or proposed action; (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action; (d) A statement of the material facts disputed by Petitioner, if any; (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action; (f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

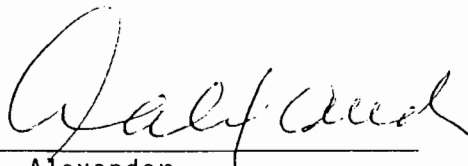
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this permit. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of receipt of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rule 17-103.070, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

When the Order (Permit) is final, any party to the Order has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 2600 Blair Stone Road, Tallahassee, Florida 32399-2400; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date the Final Order is filed with the Clerk of the Department.

Executed in Orlando, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

cmc 

A. Alexander  
Deputy Assistant Secretary  
3319 Maguire Boulevard  
Suite 232  
Orlando, Florida 32803



FILING AND ACKNOWLEDGEMENT  
FILED, on this date, pursuant to  
§120.52(11), Florida Statutes,  
with the designated Department  
Clerk, receipt of which is  
hereby acknowledged.

Jane B. Bobbi 9/3/91  
Clerk Date

AB  
AA/jtt

Copies furnished to:

Kennard F. Kosky, P.E.

CERTIFICATE OF SERVICE

This is to certify that this NOTICE OF PERMIT ISSUANCE and all copies  
were mailed before the close of business on 9/6/91 to the  
listed persons, by Christa Saultier.



# Florida Department of Environmental Regulation

Central District • 3319 Maguire Boulevard, Suite 232 • Orlando, Florida 32803-3767

Lawton Chiles, Governor

Carol M. Browner, Secretary

Permittee:  
Reedy Creek Improvement District  
Post Office Box 40  
Lake Buena Vista, FL 32830

Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification  
Number: A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996  
County: Orange  
Latitude/Longitude:  
28°22'30"N/81°32'30"W  
UTM: 17-446.5 KmE; 3138.6 KmN  
Project: EPCOT Center Diesel  
Generator No. 1 and 2

This permit is issued under the provisions of Chapter(s) 403, Florida Statutes, and Florida Administrative Code Rule(s) 17-2. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the department and made a part hereof and specifically described as follows:

The permittee can operate EPCOT Center Diesel Generators No. 1 and 2. Each Diesel Generator is a 3,600 horsepower Stewart and Stevenson large bore diesel engine, Model S-20-645-E4B, equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power.

These sources are located at 751 Backstage Lane, Walt Disney World, Orange County, Florida.

General Conditions are attached to be distributed to the permittee only.

PERMITTEE:  
 Reedy Creek Improvement District  
 Attention: Thomas M. Moses  
 District Administrator

I. D. Number:  
 Permit/Certification Number:  
 AD48-196703  
 Date of Issue:  
 Expiration Date: August 25, 1996

GENERAL CONDITIONS:

- No objectionable odors will be allowed, as per Rule 17-2.620(2), F.A.C.
- This permit does not preclude compliance with any applicable local permitting requirements and regulations.

SPECIFIC CONDITIONS:

OPERATING LIMITS

- Each source is permitted to operate 1900 hours/year.
- Each source will be fired with No. 2 Fuel Oil only.
- Sulfur content of the No. 2 Fuel Oil shall not exceed 0.50 percent. The Number 2 Fuel Oil shall be analyzed each time fuel is transferred to the storage tank from another source using ASTM D219 or another method approved by the Department. The analysis shall be retained and submitted to the Central District upon request.

EMISSION LIMITS

- Emission rates of each Generator shall not exceed the following:

<u>Pollutant</u>	<u>Max. Allowable Rate (lb/hr)</u>	<u>Actual Emissions (tons/year)</u>
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	119.5
Carbon Monoxide	3.0	2.85
Volatile Organic Compounds	1.0	2.0

$10 \times \frac{1900}{2000} = 9.5$

$15.275 - 119.7$   
 $2.0 \times 0.95 = 1.9$

- These sources will be subject to all the provisions of NSPS, Subpart FF, 40 CFR 60, when this subpart is promulgated.
- Visible emissions shall not exceed 20 percent opacity.

$3 \times \frac{1900}{2000} = 2.85$

20. lb/hr  
 19.  
 252. lb/hr  
 6.  
 2.

$\frac{252 \text{ LB}}{\text{HR}} \times 1900 \text{ HR} \times \frac{1}{2000} = 239.4 \frac{\text{T}}{\text{YR}}$

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

COMPLIANCE TESTING

7. Each source must be tested concurrently in accordance with EPA Method 20 and DER Method 9, yearly from the date of January 14, 1986. Each source must also be tested concurrently in accordance with EPA Method 5 should the opacity equal or exceed 20 percent.
8. This office (Florida Department of Environmental Regulation, Air Permitting, Orlando) shall be notified in writing at least fifteen (15) days in advance of the compliance tests so that we can witness them (Rule 17-2.700(2)(a)5, F.A.C.).
9. This plant is required to operate within 90 to 100 percent of permitted capacity during the compliance tests.
10. The required test report shall be filed with the department as soon as practical but no later than 45 days after the last sampling run of each test is completed (Rule 17-2.700(7)(a), (b) and (c), F.A.C.).
11. The type of fuel and the heat input to this source must be entered on the visible emission test report.
12. Each calendar year on or before March 1, submit for each source, an Annual Operations Report DER Form 17-1.202(6) for the preceding calendar year.

EXPIRATION DATE

13. An operation permit renewal must be submitted at least 60 days prior to the expiration date of this permit (Rule 17-4.09, F.A.C.).

PERMITTEE:  
Reedy Creek Improvement District  
  
Attention: Thomas M. Moses  
District Administrator

I. D. Number:  
Permit/Certification Number:  
A048-196703  
Date of Issue:  
Expiration Date: August 25, 1996

SPECIFIC CONDITIONS:  
(Continued)

ISSUED 9-1-81

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL REGULATION

*cme*

*Alexander*  
A. Alexander, District Director  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803