



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

## NOTICE OF FINAL PERMIT

In the Matter of an  
Application for Permit by:

Mr. Lee Schmutde  
Responsible Official  
Walt Disney World Company  
P.O. Box 10,000  
Lake Buena Vista, FL 32830-1000

Final Air Construction Permit No. **0950111-022-AC**  
**Walt Disney World Resort Complex**

Enclosed is Final Air Construction Permit No. 0950111-022-AC. The air construction permit is issued to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Resort Complex from insignificant status to regulated status.

An electronic version of this document has been posted on the Division of Air Resource Management's world wide web site for the United States Environmental Protection Agency (U.S. EPA) Region 4 office's review. The web site address is:

<http://www.dep.state.fl.us/air/eproducts/airpermit/AirSearch.asp>

This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, 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 must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

"More Protection, Less Process"

Printed on recycled paper.

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this permit was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 6/16/04 to the person(s) listed:

Lee Schmutde\*  
Rich Bumar, P.E., Walt Disney World Company  
Len Kozlov, P.E., Central District Office  
U.S. EPA, Region 4

Clerk Stamp

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

Mary J. Amory 6/16/04  
(Clerk) (Date)

## FINAL DETERMINATION

Walt Disney World Company  
**Walt Disney World Resort Complex**

Air Construction Permit No. **0950111-022-AC**

The Department distributed a public notice package on May 11, 2004, that included an intent to issue Air Construction Permit No. 0950111-022-AC to the Walt Disney World Company for the Walt Disney World Resort Complex, located at Buena Vista Drive, Orange and Osceola Counties. The air construction permit is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Resort Complex from insignificant status to regulated status.

The Public Notice of Intent to Issue was published in the Orlando Sentinel on May 19, 2004.

### COMMENTS/CHANGES

*No comments* were received by the Department from the public, U.S.EPA, or the applicant.

### CONCLUSION

The final action of the Department is to issue the permit with no changes.



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Tallahassee, Florida 32399-2400

Colleen M. Castille  
Secretary

## Final Air Construction Permit No. 0950111-022-AC

### Permittee

Walt Disney World Company	File No.	<b>0950111-022-AC</b>
<b>Walt Disney World Resort Complex</b>	Facility	
P.O. Box 10,000	ID No.	<b>0950111</b>
Lake Buena Vista, FL 32830-1000	SIC No.	7966
	Permit No.	<b>0950111-022-AC</b>
	Expires:	December 31, 2004
<i>Authorized Representative:</i>		
Lee Schmudde		
Responsible Official		

### Project and Location

This project is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Resort Complex from insignificant status to regulated status. Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil shall be limited. The nameplate rating of each generator is 1.75 megawatts (MW). The manufacturer is Spectrum Detroit Diesel. The model number is 1750DS-4. The generators were installed in November, 2002, with initial plans to operate them only as conditionally exempt emergency generators. Diesel fuel for the generators is stored in three 10,000 gallon fuel tanks. This reclassification permitting action should allow increased operational flexibility for the facility.

This facility is located at 1375 Buena Vista Drive, Orange and Osceola Counties; UTM Coordinates: Zone 17, 449.70 km East and 3138.00 km North; Latitude: 28° 22' 24" North and Longitude: 81° 32' 46" West.

This Air Construction Permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to construct and operate in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

The attached appendix is made a part of this permit:

Appendix GC

Construction Permit General Conditions

Michael G. Cooke, Director  
Division of Air Resource Management

"More Protection, Less Process"

Printed on recycled paper.

**Facility Description**

This facility consists of the following emissions units:

E.U. ID No. (Facility ID No.)	Brief Description
<u>North Service Area Dry Cleaning</u>	
<u>Plant</u>	
-001 (LDC-1)	Dry Cleaning Unit #1
<u>North Service Area (NSA)</u>	
-005 (NSA-17)	North Service Area (NSA) Central Shops Building Annex (CSBA): Sand Blast Chamber No. 1: unregulated
-006 (NSA-18)	NSA Boat Maintenance & Painting Facility
-007 (NSA-1 thru 7, 11, 12, 14 thru 16)	NSA Central Shops Building
-014 (NSA-8)	NSA Lofting Building PSB
-015 (NSA-9 & 10)	NSA CSBA
-020 (LBB-1a)	Laundry Boiler #1
-021 (LBB-1b)	Laundry Boiler #2
-022 (LBB-1c)	Laundry Boiler #3
<u>Disney's Grand Floridian Hotel</u>	
-035 (GFR2 thru 18)	16 Hot Water Heaters
<u>Disney-MGM Studios</u>	
-053 (STB-1, 2A, 2B1, 2B2, 3 thru 8)	10 Hot Water Heaters
<u>Disney-MGM Studio Tours</u>	
-061 (MGM-10)	Paint Spray Booth (PSB)
<u>Buena Vista Construction</u>	
-062 (BVC-1)	PSB
<u>Lake Buena Vista Community Village</u>	
-063 (LBV-1 & 2)	PSBs
<u>Disney Village</u>	
-065 (VM-3)	PSB
<u>Ft. Wilderness/Golf Course</u>	
-066 (FWR-4)	PSB
<u>Yacht &amp; Beach Club</u>	
-067 (YBC-3)	PSB
<u>EPCOT Center</u>	
-068 (EP-1 & 2)	PSBs
-070 (EP-3)	PSB
<u>South Service Area</u>	
-071 (SSA-1)	PSB
Administrative Area	
-072 (LAU-1 & 2)	2 Laundry Thermal Oil Heaters
Magic Kingdom	
-075 (MK-1)	PSB

Reedy Creek Improvement District/Epcot	
-076 (Epcot HWG-1 thru 3)	3 Hot Water Heaters (unregulated)
-079 (Epcot DG-1)	2.5 MW Diesel Generator
-080 (Epcot DG-2)	2.5 MW Diesel Generator
Reedy Creek Improvement District	
-081 (CEP-2)	Hot Water Heater
Blizzard Beach	
-083 (BB-1 thru 5)	5 Hot Water Heaters
Reedy Creek Improvement District	
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator
Boardwalk Resort	
-090 (BDW-1 & 2)	2 Boilers
-091 (BDW-3 thru 10)	8 Hot Water Heaters
Magic Kingdom	
-092 (MK-3)	Hot Water Heater
-093 (MK-2)	PSB
Boardwalk Resort	
-094 (BR-1)	PSB
Coronado Springs Resort	
-095 (COS-1 thru 37)	37 Hot Water Heaters
Stand-by/Emergency Generators	
-101	120 Stand-by/Emergency Generators Firing #2 FO, NG or LP Gas
Coronado Springs Resort	
-102 (COS-41)	PSB
Disney's Animal Kingdom	
-103 (DAKU-1 thru 51)	51 Hot Water Heaters
Necropsy Building	
-112 (DAK-1)	Crawford Model CB800 Animal Crematory
All Star Resort	
-113 (ASR-2 thru 108)	107 Hot Water Heaters
-114 (ASR-1)	PSB
Tree of Life Boiler	
-115 (DAKU-52)	1.075 MMBtu/hr boiler firing NG
Disney's MGM Studios Feature Animation Building	
-117	2 PSBs
NSA Monorail Building	
-118 (NSA-20)	Monorail Trains PSB
Disney's Animal Kingdom	
-119	Maintenance PSB

**Regulatory Classification and Project Description**

The facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceed 100 tons per year (TPY).

*The applicant has requested a fuel limitation usage of 254,000 gallons of diesel fuel per year for these generators.* Because these generators provide backup power for the DISC Building, a facility that houses extensive computer hardware for the Walt Disney World Resort Complex, the applicant believes that the requested fuel limitation is justified. There will be an increase in the potential levels of emissions of particulate matter (PM), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), hydrocarbons/VOC, and carbon monoxide (CO) as a result of implementing this project, as noted below. The potential to emit (PTE) calculations in the second column in this table were based on manufacturer provided emissions factor data. In the third column are the corresponding PTE values using EPA's AP-42 factors from Table 3.4-1. in that document.

<b>Pollutant</b>	<b>Potential to emit level (Tons per year) Using manufacturer supplied data</b>	<b>Potential to emit level (Tons per year) Using AP-42 factors</b>
Particulate Matter (PM)	1.6	1.3
Nitrogen Oxides (NO <sub>x</sub> )	39.4	54.3
Sulfur Dioxide (SO <sub>2</sub> ) (using .5% sulfur fuel, by weight)	4.5	8.9
Hydrocarbons/VOC	10.5	1.6 (TOC)
Carbon Monoxide (CO)	17.5	14.2

The applicant is seeking to escape prevention of significant deterioration (PSD) review for this permitting action. However, this emissions unit (the three diesel fuel fired electric generators), when operated under a fuel limitation of 254,000 gallons of diesel fuel per year, will exceed the significant emission rate for NO<sub>x</sub> (40 tons per year) listed in Table 212.400-2, F.A.C., using the AP-42 factors. Alternatively, using a fuel limitation of 185,000 gallons of diesel fuel will hold the potential NO<sub>x</sub> emissions increase below the 40 ton per year threshold. Sulfur content of the fuel oil shall also be held to 0.5%, or less, by weight. With these changes, the three electric generators will now be classified collectively as a *regulated emissions unit*. The fuel limitations are requested by the applicant to escape PSD review, as noted above. We have determined that the upcoming MACT rule does not apply to this emissions unit, since the generators are considered existing units under the rule.

Because the net increases in potential emissions for the pollutants, as noted above in the second column, are below the significant emissions rates listed in Table 212.400-2, F.A.C., Regulated Air Pollutants – Significant Emissions Rates, it has been determined that this change constitutes a minor modification to the facility. Therefore, the modification is not subject to review under Rule 62-212.400,

F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

### Project Plan

The applicant tested the emissions unit to verify the accuracy of the above NOx emissions estimate range using appropriate EPA test methodology, as noted in the next section. Steady state, startup, and shut down operational phases were tested for emissions, as detailed in the following test protocol. District and Tallahassee offices were notified prior to conducting the testing. Test results shall be provided to the Department within 30 calendar days after the test conclusion. *This air construction (AC) permit initially limits the annual diesel fuel oil usage to 185,000 gallons for these three generators.* Based on the results of the tests, a determination will be made by the Department as to the appropriate maximum annual level of fuel usage for these generators, and an air construction permit modification will be issued if a higher (or lower) level of fuel usage is justified.

The emission unit affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein), and all specific conditions of the facility's existing Title V Air Operation Permit No. 0950111-021-AV.

### Test Protocol

The applicant provided, and the Department approved, the following test protocol and schedule: An EPA Method 1-4, 7E, and 9 on May 18<sup>th</sup> and 19<sup>th</sup>, 2004, at the Walt Disney World Complex DISC Building starting each day at 8 am. The purpose of the test was to confirm the emissions rate for NOx under various load conditions for this current permitting action.

The following test protocol was used:

- Day 1: 1 run during startup (about 1 hour or until the engine was at steady-state temperature and pressure, 3 runs at 60% load (about 4 hours total), then 1 shutdown run (about 15 min).
- Day 2: 1 run during startup (about 1 hour or until the engine was at steady-state temperature and pressure, 3 runs at 75% load, 3 runs at 100% load (about 8-hours), and 1 visible emissions test during the 100% load run, then 1 shutdown run (about 15 min).
- The only fuel allowed to be burned in this emissions unit was diesel fuel oil, with a maximum sulfur content of 0.5%, by weight.

The following data were collected during the test: Fuel consumption in gallons per hour, percent load, and power generation in megawatts. Other engine function data included revolutions per minute (rpm), engine temperature, and turbo boost in pounds per square inch (psi).



### Permit Schedule

- 03/31/04 Application deemed complete.
- 03/31/04 Application received.
- 05/11/04 Draft Construction Permit clerked.
- 05/19/04 Public Notice published.

### Relevant Documents

The documents listed below are the basis of the permit. They are specifically related to this permitting action, but not all are incorporated into this permit. These documents are on file with the Department.

- Application received on March 31, 2004.
- The Department's Technical Evaluation and Final Determination issued concurrently with this permit.

### Administrative Requirements

**A.1. Regulating Agencies.** All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation, Florida Department of Environmental Protection, at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850) 488-0114. All documents related to reports, tests, and notifications should be submitted to the Department's Central District Office in Orlando, Florida. The address and telephone numbers are:

Department of Environmental Protection  
Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767  
Telephone: 407/894-7555

**A.2. General Conditions.** The owner and operator is subject to, and shall operate under the attached General Permit Conditions **G.1.** through **G.15.** listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes.  
[Rule 62-4.160, F.A.C.]

**A.3. Terminology.** The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code (F.A.C.).

**A.4. Forms and Application Procedures.** The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C., and follow the application procedures in Chapter 62-4, F.A.C.  
[Rule 62-210.900, F.A.C.]

**A.5. New or Additional Conditions.** For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional

conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]

**A.6. Permit Extension.** The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Tallahassee Office no later than 60 days prior to the expiration of the permit. [Rule 62-4.080, F.A.C.]

**A.7.** Unless otherwise indicated in this permit, the construction and operation of the subject emission unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S., and Florida Administrative Code Chapters 62-4, 62-103, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297.

**A.8.** Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations. [Rule 62-210.300, F.A.C.]

### **Operational Requirements**

**A.9.** The facility is subject to all of the requirements specified in Title V Air Operation Permit No. 0950111-021-AV.

**A.10.** The facility's responsible official shall apply for a Title V Air Operation Permit Revision that incorporates the terms and conditions of this air construction permit no later than 90 days prior to the expiration date of this permit. [Rule 62-213.420(1)(a)1., F.A.C.]

**A.11. Operating Procedures.** Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment. [Rule 62-4.070(3), F.A.C.]

**A.12. Methods of Operation. Fuels.** The only fuel allowed to be burned in this emissions unit is diesel fuel oil, with a maximum sulfur content of 0.5%, by weight. The amount of diesel fuel fired in the unit shall not exceed 185,000 gallons per year. [Rule 62-4.070(3), F.A.C.; and applicant request.]

### **Testing, Compliance Determination, and Reporting**

**A.13.** A *one time test procedure* was performed to determine the potential annual NO<sub>x</sub> emissions for the emissions unit, as noted in the above narrative. District and Tallahassee offices were notified prior to conducting the testing. Test results shall be provided to the Department within 30 calendar days after the test conclusion. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the compliance authority to determine if the test was properly conducted and if the test results were properly computed. Based on the results of this testing, the annual diesel fuel usage

limitation of 185,000 gallons may be adjusted by the Department via an air construction permitting action.

[Rules 62-4.070(3) and 62-297.310(8), F.A.C.]

**A.14. Sulfur Dioxide.** The permittee shall demonstrate compliance with the diesel fuel sulfur limit via a fuel analysis provided by the vendor or permittee upon each fuel delivery to the emission unit's three 10,000 gallon diesel fuel tanks.

- The fuel sulfur content, in percent by weight, for the diesel fuel shall be evaluated using either ASTM D2622-94, ASTM D4294-90 (95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95, or the latest editions.

[Rules 62-4.070(3), 62-213.440, and 62-297.440, F.A.C.]

**A.15. Recordkeeping.** The following records shall be kept at the facility:

- Total gallons of diesel fuel oil used during each month for the three generators.
- The sulfur content, in percent by weight, of all the diesel fuel delivered each month to the three 10,000 gallon tanks, based on the vendor or permittee provided fuel sample analyses. See Specific Condition **A.14**.

The records shall be maintained for a minimum of 5 years and made available to the Central District Office upon request.

[Rule 62-297.310(8), F.A.C.]

TECHNICAL EVALUATION  
AND  
FINAL DETERMINATION

Walt Disney World Company

**Walt Disney World Resort Complex**

Facility ID No. **0950111**

DEP File No. **0950111-022-AC**

Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation  
Permitting South Section

June 9, 2004

# TECHNICAL EVALUATION AND FINAL DETERMINATION

## 1.0. GENERAL INFORMATION

### 1.1. APPLICANT NAME AND ADDRESS

Walt Disney World Company  
P.O. Box 10,000  
Lake Buena Vista, FL 32830-1000

Responsible Official: Lee Schmutde

### 1.2. REVIEW AND PROCESS SCHEDULE

March 31, 2004      Air Construction Permit Application received.  
March 31, 2004      Application deemed complete.  
May 11, 2004        Draft Construction Permit clerked.  
May 19, 2004        Public Notice published.

## 2.0. FACILITY INFORMATION

This facility is located at 1375 Buena Vista Drive, Orange and Osceola Counties; UTM Coordinates: Zone 17, 449.70 km East and 3138.00 km North; Latitude: 28° 22' 24" North and Longitude: 81° 32' 46" West.

SIC codes are:

Industry Group No.	79	Amusement and Recreation Services
Industry No.	7996	Amusement Parks

This facility consists of the following emissions units:

E.U. ID No. (Facility ID No.)	Brief Description
<u>North Service Area Dry Cleaning Plant</u>	
-001 (LDC-1)	Dry Cleaning Unit #1
<u>North Service Area (NSA)</u>	
-005 (NSA-17)	North Service Area (NSA) Central Shops Building Annex (CSBA): Sand Blast Chamber No. 1: unregulated
-006 (NSA-18)	NSA Boat Maintenance & Painting Facility
-007 (NSA-1 thru 7, 11, 12, 14 thru 16)	NSA Central Shops Building
-014 (NSA-8)	NSA Lofting Building PSB
-015 (NSA-9 & 10)	NSA CSBA
-020 (LBB-1a)	Laundry Boiler #1
-021 (LBB-1b)	Laundry Boiler #2
-022 (LBB-1c)	Laundry Boiler #3
<u>Disney's Grand Floridian Hotel</u>	
-035 (GFR2 thru 18)	16 Hot Water Heaters

## TECHNICAL EVALUATION AND FINAL DETERMINATION

<u>Disney-MGM Studios</u>	
-053 (STB-1, 2A, 2B1, 2B2, 3 thru 8)	10 Hot Water Heaters
<u>Disney-MGM Studio Tours</u>	
-061 (MGM-10)	Paint Spray Booth (PSB)
<u>Buena Vista Construction</u>	
-062 (BVC-1)	PSB
<u>Lake Buena Vista Community Village</u>	
-063 (LBV-1 & 2)	PSBs
<u>Disney Village</u>	
-065 (VM-3)	PSB
<u>Ft. Wilderness/Golf Course</u>	
-066 (FWR-4)	PSB
<u>Yacht &amp; Beach Club</u>	
-067 (YBC-3)	PSB
<u>EPCOT Center</u>	
-068 (EP-1 & 2)	PSBs
-070 (EP-3)	PSB
<u>South Service Area</u>	
-071 (SSA-1)	PSB
Administrative Area	
-072 (LAU-1 & 2)	2 Laundry Thermal Oil Heaters
Magic Kingdom	
-075 (MK-1)	PSB
Reedy Creek Improvement District/Epcot	
-076 (Epcot HWG-1 thru 3)	3 Hot Water Heaters (unregulated)
-079 (Epcot DG-1)	2.5 MW Diesel Generator
-080 (Epcot DG-2)	2.5 MW Diesel Generator
Reedy Creek Improvement District	
-081 (CEP-2)	Hot Water Heater
Blizzard Beach	
-083 (BB-1 thru 5)	5 Hot Water Heaters
Reedy Creek Improvement District	
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator
Boardwalk Resort	
-090 (BDW-1 & 2)	2 Boilers
-091 (BDW-3 thru 10)	8 Hot Water Heaters
Magic Kingdom	
-092 (MK-3)	Hot Water Heater
-093 (MK-2)	PSB
Boardwalk Resort	
-094 (BR-1)	PSB

## TECHNICAL EVALUATION AND FINAL DETERMINATION

Coronado Springs Resort	
-095 (COS-1 thru 37)	37 Hot Water Heaters
Stand-by/Emergency Generators	
-101	120 Stand-by/Emergency Generators Firing #2 FO, NG or LP Gas
Coronado Springs Resort	
-102 (COS-41)	PSB
Disney's Animal Kingdom	
-103 (DAKU-1 thru 51)	51 Hot Water Heaters
Necropsy Building	
-112 (DAK-1)	Crawford Model CB800 Animal Crematory
All Star Resort	
-113 (ASR-2 thru 108)	107 Hot Water Heaters
-114 (ASR-1)	PSB
Tree of Life Boiler	
-115 (DAKU-52)	1.075 MMBtu/hr boiler firing NG
Disney's MGM Studios Feature Animation Building	
-117	2 PSBs
NSA Monorail Building	
-118 (NSA-20)	Monorail Trains PSB
Disney's Animal Kingdom	
-119	Maintenance PSB

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceed 100 tons per year (TPY). This facility is also a major source of hazardous air pollutants (HAPs).

The facility is located in an area (Orange and Osceola Counties) designated "unclassifiable" for PM<sub>10</sub>, "air quality maintenance" for ozone (Orange County only), and "attainment" for all the other criteria pollutants (Rule 62-204.340, F.A.C.).

The facility's existing Title V Air Operation Permit Renewal has an effective date of January 1, 2003, and will expire on December 31, 2007.

### 3.0. PROJECT DESCRIPTION

This project is to reclassify three existing diesel electric generators serving the DISC building from insignificant status to regulated status. Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil will be limited. The nameplate rating of each generator is 1.75 megawatts (MW). The manufacturer is Spectrum Detroit Diesel. The model number is 1750DS-4. The generators were installed in November, 2002, with initial plans to operate them only as conditionally exempt emergency generators. This reclassification permitting action should allow increased operational flexibility for the facility.

# TECHNICAL EVALUATION AND FINAL DETERMINATION

## 4.0. PROJECT EMISSIONS & RULE APPLICABILITY

The applicant has requested a fuel limitation usage of 254,000 gallons of diesel fuel per year for these generators. Because these generators provide backup power for the DISC Building, a facility that houses extensive computer hardware for the Walt Disney World Resort Complex, the applicant believes that the requested fuel limitation is justified. There will be an increase in the potential levels of emissions of particulate matter (PM), nitrogen oxides (NOx), sulfur dioxide (SO<sub>2</sub>), hydrocarbons/VOC, and carbon monoxide (CO) as a result of implementing this project, as noted below. The potential to emit (PTE) calculations in the second column in this table were based on manufacturer provided emissions factor data. In the third column are the corresponding PTE values using EPA's AP-42 factors from Table 3.4-1. in that document.

<b>Pollutant</b>	<b>Potential to emit level (Tons per year) Using manufacturer supplied data</b>	<b>Potential to emit level (Tons per year) Using AP-42 factors</b>
Particulate Matter (PM)	1.6	1.3
Nitrogen Oxides (NOx)	39.4	54.3
Sulfur Dioxide (SO <sub>2</sub> ) (using .5% sulfur fuel, by weight)	4.5	8.9
Hydrocarbons/VOC	10.5	1.6 (TOC)
Carbon Monoxide (CO)	17.5	14.2

The applicant is seeking to escape prevention of significant deterioration (PSD) review for this permitting action. However, this emissions unit (the three diesel fuel fired electric generators), when operated under a fuel limitation of 254,000 gallons of diesel fuel per year, will exceed the significant emission rate for NOx (40 tons per year) listed in Table 212.400-2, F.A.C., using the AP-42 factors. Alternatively, using a fuel limitation of 185,000 gallons of diesel fuel will hold the potential NOx emissions increase below the 40 ton per year threshold. Sulfur content of the fuel oil shall also be held to 0.5%, or less, by weight. With these changes, the three electric generators will now be classified collectively as a *regulated emissions unit*. The fuel limitations are requested by the applicant to escape PSD review, as noted above. We have determined that the upcoming MACT rule does not apply to this emissions unit, since the generators are considered existing units under the rule.

Because the net increases in potential emissions for the pollutants, as noted above in the second column, are below the significant emissions rates listed in Table 212.400-2, F.A.C., Regulated Air Pollutants – Significant Emissions Rates, it has been determined that this change constitutes a minor modification to the facility. Therefore, the modification is not subject to review under Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403,



# TECHNICAL EVALUATION AND FINAL DETERMINATION

---

Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

The applicant tested the emissions unit to verify the accuracy of the above NOx emissions estimate range using appropriate EPA test methodology, as noted in the next section. Steady state, startup, and shut down operational phases were tested for emissions, as detailed in the following test protocol. District and Tallahassee offices were notified prior to conducting the testing on May 3, 2004. Test results shall be provided to the Department within 30 calendar days after the test conclusion. *The air construction (AC) permit will initially limit the annual diesel fuel oil usage to 185,000 gallons for these three generators.* Based on the results of the tests, a determination will be made by the Department as to the appropriate maximum annual level of fuel usage for these generators, and an air construction permit modification will be issued if a higher (or lower) level of fuel usage is justified.

The emission unit affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein), and all specific conditions of the facility's existing Title V Air Operation Permit No. 0950111-021-AV.

## 4.1. TEST PROTOCOL

The applicant provided, and the Department approved, the following test schedule: An EPA Method 1-4, 7E, and 9 on May 18<sup>th</sup> and 19<sup>th</sup>, 2004, at the Walt Disney World Resort Complex DISC Building starting each day at 8 am. The purpose of the test was to confirm the emissions rate for NOx under various load conditions for this current permitting action.

The following test protocol was used:

- Day 1: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 60% load (about 4 hours total), then 1 shutdown run (about 15 min).
- Day 2: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 75% load, 3 runs at 100% load (about 8-hours), and 1 visible emissions test during the 100% load run, then 1 shutdown run (about 15 min).
- The only fuel allowed to be burned in this emissions unit was diesel fuel oil, with a maximum sulfur content of 0.5%, by weight.

The following data were collected during the test: Fuel consumption in gallons per hour, percent load, and power generation in megawatts. Other engine function data included revolutions per minute (rpm), engine temperature, and turbo boost in pounds per square inch (psi).

## 5.0. CONCLUSION

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant and other available information, the Department has made a final determination that the proposed project will comply with all applicable state and federal air pollution regulations. The Department will issue a final Air Construction Permit to the applicant that provides for the above changes at the facility.

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Lee Schumde  
 Responsible Official  
 Walt Disney World Company  
 Post Office Box 10,000  
 Lake Buena Vista, FL 32830

**RECEIVED**  
 JUN 21 2004

2. Article Number (Transfer from service label) **BUREAU OF AIR REGULATION 1670 0013 3110 3452**

PS Form 3811, August 2001 Domestic Return Receipt 102595-02-M-1540

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  Addressee  
 B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1?  Yes  No  
 If YES, enter delivery address below  
**FULFILLMENT & MAIL SERVICES**

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

254E 01TE E100 029T 0002

**U.S. Postal Service  
 CERTIFIED MAIL RECEIPT  
 (Domestic Mail Only; No Insurance Coverage Provided)**

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$</b>

Postmark  
 Here

Sent To **Mr. Lee Schumde**  
 Street, Apt. No., or PO Box No.  
**Post Office Box 10,000**  
 City, State, ZIP+4  
**Lake Buena Vista, Florida 32830-1000**



WALT DISNEY World Co.

RECEIVED

JUN 03 2004

BUREAU OF AIR REGULATION

May 28, 2004

Mr. Tom Cascio  
Florida Department of  
Environmental Protection  
2600 Blair Stone Rd. MS 5505  
Tallahassee, Florida 32399-2400

RE: Public notice of intent to issue permit  
Permit number 0950111-022-AC  
Walt Disney World Resort DISC Building Generators

Dear Mr. Cascio:

Enclosed is the proof of publication of the public notice of intent to issue an air construction permit for the above referenced permit, which was run in the May 19, 2004 edition of The Orlando Sentinel. If you have any questions or need any further information, please call me at 407-824-7129 or by email at [rich.bumar@disney.com](mailto:rich.bumar@disney.com).

Sincerely,

Rich Bumar, PE  
Sr. Environmental Control Representative

Enclosure

# Orlando Sentinel

Published Daily

State of Florida } S.S.  
COUNTY OF ORANGE

BEST AVAILABLE COPY

RECEIVED

JUN 03 2004

BUREAU OF AIR REGULATION

Linda Bridgewater

Before the undersigned authority personally appeared \_\_\_\_\_, who on oath says:

that he/she is the Legal Advertising Representative of Orlando Sentinel, a daily newspaper published at ORLANDO in ORANGE County, Florida; that the attached copy of advertisement, being a PUBLIC NOTICE OF in the matter of #0950111-022-AC

in the ORANGE Court, was published in said newspaper in the issue; of 05/19/04

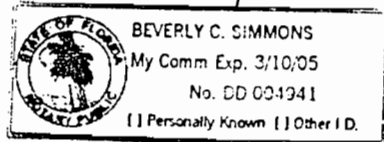
Affiant further says that the said Orlando Sentinel is a newspaper published at ORLANDO in said ORANGE County, Florida, and that the said newspaper has heretofore been continuously published in said ORANGE County, Florida, each Week Day and has been entered as second-class mail matter at the post office in ORLANDO in said ORANGE County, Florida, for a period of one year next preceding the first publication of the attached copy of advertisement; and affiant further says that he/she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

*Linda Bridgewater*

The foregoing instrument was acknowledged before me this 20 day of May, 20 04, by Linda Bridgewater who is personally known to me and who did take an oath.

*Beverly C. Simmons*

(SEAL)



PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT  
Department of Environmental Protection  
Draft Air Construction Permit No. 0950111-022-AC  
Walt Disney World Resort Complex  
Orange and Osceola Counties  
The Department of Environmental Protection (permitting authority) gives notice of its intent to issue an Air Construction Permit to the Walt Disney World Company, for the Walt Disney World Resort Complex, located at Buena Vista Drive, Orange and Osceola Counties. The applicant's name and address are: Mr. Lee Schuette, Responsible Official, Walt Disney World Company, P.O. Box 10,000, Lake Buena Vista, FL 32830-1000.

The air construction permit is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Complex from insignificant status to regulated status. Both the annual fuel quality used and percent sulfur, by weight, in the fuel oil shall be limited.

The permitting authority will issue the Air Construction Permit in accordance with the conditions of the Draft Air Construction Permit unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The permitting authority will accept written comments concerning the proposed Draft Air Construction Permit issuance action for a period of 14 (fourteen) days from the date of publication of this Notice. Written comments should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft Air Construction Permit, the permitting authority shall issue a Revised Draft Air Construction Permit and require, if applicable, another Public Notice.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 of the 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 of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2242; Fax: 850/245-2303). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only of the approval of the presiding officer upon the filing of a motion in compliance with Rule 28.106.205 of the Florida Administrative Code (F.A.C.).

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 of the 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 of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2242; Fax: 850/245-2303). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only of the approval of the presiding officer upon the filing of a motion in compliance with Rule 28.106.205 of the Florida Administrative Code (F.A.C.).

A petition that disputes the material facts upon which the permitting authority's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known.

(b) The name, address and telephone number of the petitioner; name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how petitioner's substantial rights will be affected by the agency determination.

(c) A statement of how and when the petitioner received notice of the agency action or proposed action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so state;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle petitioner to relief;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and,

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application(s) have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

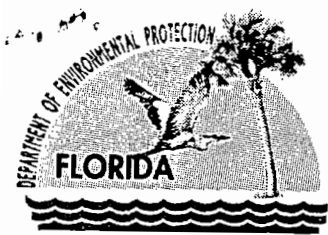
Mediation is not available for this proceeding.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

**Permitting Authority:**  
Department of Environmental Protection  
Bureau of Air Regulation  
111 South Magnolia Drive,  
Suite 4  
Tallahassee, Florida 32301  
Telephone: 850/488-0114;  
Fax: 850/922-6979

**Affected District Office:**  
Department of Environmental Protection Central District Office  
3319 Maguire Boulevard,  
Suite 232  
Orlando, Florida 32803-3767  
Telephone: 407/894-7555

The complete project file includes the Technical Evaluation and Preliminary Determination, the associated Draft Air Construction Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Program Administrator, Permitting South Section, at the above address, or call 850/488-0114, for additional information.



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

## P.E. Certification Statement

Permittee:

Walt Disney World Company  
**Walt Disney World Resort Complex**

Draft Permit No. **0950111-022-AC**

**Project:** Air Construction Permit

The facility is a complex of hotels, theme parks and support facilities, and a utility. The various air pollution sources are boilers, a combined-cycle combustion turbine with a natural gas-fired heat recovery steam generator, paint spray booths and associated operations, external combustion oil heaters, hot water heaters, and emergency electrical generators.

*I HEREBY CERTIFY that the engineering features described in the above referenced application and subject to the proposed permit conditions provide reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Chapters 62-4 and 62-204 through 62-297. However, I have not evaluated and I do not certify aspects of the proposal outside of my area of expertise (including but not limited to the electrical, mechanical, structural, hydrological, and geological features).*

*This draft permit was prepared under my direct supervision by Dr. Tom Cascio of my staff.*

05/05/04

Alvaro A. Linero, P.E.      date  
Registration Number: 26032

*July  
5/5*

Permitting Authority:  
Department of Environmental Protection  
Bureau of Air Regulation  
Permitting South Section  
111 South Magnolia Drive, Suite 4  
Tallahassee, Florida 32301  
Telephone: 850/488-0144  
Fax: 850/922-6979



Jeb Bush  
Governor

# Department of Environmental Protection

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

Colleen M. Castille  
Secretary

May 10, 2004

Mr. Lee Schmutde  
Responsible Official  
Walt Disney World Company  
Walt Disney World Resort Complex  
P.O. Box 10,000  
Lake Buena Vista, FL 32830-1000

Re: Draft Air Construction Permit No. **0950111-022-AC**  
**Walt Disney World Resort Complex**

Dear Mr. Schmutde:

One copy of the Technical Evaluation and Preliminary Determination and the Draft Air Construction Permit for the **Walt Disney World Resort Complex**, located at Buena Vista Drive, Orange and Osceola Counties, is enclosed. The permitting authority's "INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT" and the "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT" are also included.

Electronic versions of these documents have been posted on the Division of Air Resource Management's world wide web site for the United States Environmental Protection Agency (U.S. EPA) Region 4 office's review. The web site address is:

<http://www.dep.state.fl.us/air/permitting/airpermits>

The "PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT" must be published as soon as possible. Proof of publication, i.e., newspaper affidavit, must be provided to the permitting authority's office within 7 (seven) days of publication pursuant to Rule 62-110.106(5), F.A.C. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Please submit any written comments you wish to have considered concerning the permitting authority's proposed action to the Program Administrator, Permitting South Section, at the above letterhead address. If you have any other questions, please contact Tom Cascio, at 850/921-9526.

Sincerely,

Trina L. Vielhauer, Chief  
Bureau of Air Regulation

Enclosures

U.S. EPA, Region 4 (INTERNET E-mail)

"More Protection, Less Process"

Printed on recycled paper.

In the Matter of an  
Application for Permit by:

Walt Disney World Company  
P.O. Box 10,000  
Lake Buena Vista, FL 32830-1000

Draft Air Construction Permit No. **0950111-022-AC**  
**Walt Disney World Resort Complex**

---

**INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT**

The Department of Environmental Protection (permitting authority) gives notice of its intent to issue an Air Construction Permit (copy of the Draft Air Construction Permit attached) for the Title V source detailed in the application specified above, and the attached Technical Evaluation and Preliminary Determination, for the reasons stated below.

The applicant, Walt Disney World Company, applied on March 31, 2004, to the permitting authority for an Air Construction Permit for the Walt Disney World Resort Complex, located at Buena Vista Drive, Orange and Osceola Counties. *The air construction permit is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Complex from insignificant status to regulated status.* Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil shall be limited.

The permitting authority has permitting jurisdiction under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-212, 62-213, and 62-214. This source is not exempt from construction and Title V permitting procedures. The permitting authority has determined that an Air Construction Permit is required to construct and to commence or continue operations at the described facility.

The permitting authority intends to issue the Air Construction Permit based on the belief that reasonable assurances have been provided to indicate that the construction activity and operation of the source will not adversely impact air quality, and the source will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-214, 62-256, 62-257, 62-281, 62-296, and 62-297, F.A.C.

Pursuant to Sections 403.815 and 403.087, F.S., and Rules 62-110.106 and 62-210.350(3), F.A.C., you (the applicant) are required to publish at your own expense the enclosed "**PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT**" The notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected. For the purpose of these rules, "publication in a newspaper of general circulation in the area affected" means publication in a newspaper meeting the requirements of Sections 50.011 and 50.031, F.S., in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the permitting authority at the address or telephone number listed below. The applicant shall provide proof of publication to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400 (Telephone: 850/488-0114; Fax: 850/922-6879, within 7 (seven) days of publication pursuant to Rule 62-110.106(5), F.A.C. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

The permitting authority will issue the Air Construction Permit in accordance with the conditions of the attached Draft Air Construction Permit, unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The permitting authority will accept written comments concerning the proposed Air Construction Permit issuance action for a period of 14 (fourteen) days from the date of publication of the "**PUBLIC**



NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT” Written comments should be provided to the permitting authority office. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft Air Construction Permit, the permitting authority shall issue a Revised Draft Air Construction Permit and require, if applicable, another Public Notice.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, 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 of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2242; Fax: 850/245-2303). Petitions filed by the permit’s (construction) applicant or any of the parties listed below must be filed within 14 (fourteen) days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of this notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person’s right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the permitting authority’s action is based must contain the following information:

(a) The name and address of each agency affected and each agency’s file or identification number, if known;

(b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner’s representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner’s substantial interests will be affected by the agency determination;

(c) A statement of how and when each petitioner received notice of the agency action or proposed action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;

(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency’s proposed action; and,

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency’s proposed action.

A petition that does not dispute the material facts upon which the permitting authority’s action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority’s final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final

decision of the permitting authority on the application(s) have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation will not be available in this proceeding.

In addition to the above, a person subject to regulation has a right to apply to the Department of Environmental Protection for a variance from or waiver of the requirements of particular rules, on certain conditions, under Section 120.542, F.S. The relief provided by this state statute applies only to state rules, not statutes, and not to any federal regulatory requirements. Applying for a variance or waiver does not substitute or extend the time for filing a petition for an administrative hearing or exercising any other right that a person may have in relation to the action proposed in this notice of intent.

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information:

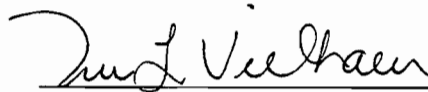
- (a) The name, address, and telephone number of the petitioner;
- (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any;
- (c) Each rule or portion of a rule from which a variance or waiver is requested;
- (d) The citation to the statute underlying (implemented by) the rule identified in (c) above;
- (e) The type of action requested;
- (f) The specific facts that would justify a variance or waiver for the petitioner;
- (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and,
- (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section 120.542(2), F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

Persons subject to regulation pursuant to any federally delegated or approved air program should be aware that Florida is specifically not authorized to issue variances or waivers from any requirements of any such federally delegated or approved program. The requirements of the program remain fully enforceable by the Administrator of the United States Environmental Protection Agency and by any person under the Clean Air Act unless and until the Administrator separately approves any variance or waiver in accordance with the procedures of the federal program.

Executed in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION**



Trina L. Vielhauer, Chief  
Bureau of Air Regulation

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT (including the PUBLIC NOTICE, and the Draft Air Construction Permit) and all copies were sent by certified mail before the close of business on 5/11/04 to the person(s) listed:

Lee Schmudde, Walt Disney World Company

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT (including the PUBLIC NOTICE, and the Draft Air Construction Permit) were sent by U.S. mail on the same date to the person(s) listed or as otherwise noted:

Rich Bumar, P.E., Walt Disney World Company  
Len Kozlov, P.E., Central District Office

Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED**, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency Clerk, receipt of which is hereby acknowledged.

Mary Bumar 5/11/04  
(Clerk) (Date)

PUBLIC NOTICE OF INTENT TO ISSUE AN AIR CONSTRUCTION PERMIT

Department of Environmental Protection

Draft Air Construction Permit No. **0950111-022-AC**  
**Walt Disney World Resort Complex**

Orange and Osceola Counties

The Department of Environmental Protection (permitting authority) gives notice of its intent to issue an Air Construction Permit to the Walt Disney World Company, for the Walt Disney World Resort Complex, located at Buena Vista Drive, Orange and Osceola Counties. The applicant's name and address are: Mr. Lee Schmulde, Responsible Official, Walt Disney World Company, P.O. Box 10,000, Lake Buena Vista, FL 32830-1000.

*The air construction permit is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Complex from insignificant status to regulated status. Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil shall be limited.*

The permitting authority will issue the Air Construction Permit in accordance with the conditions of the Draft Air Construction Permit, unless a response received in accordance with the following procedures results in a different decision or significant change of terms or conditions.

The permitting authority will accept written comments concerning the proposed Draft Air Construction Permit issuance action for a period of 14 (fourteen) days from the date of publication of this Notice. Written comments should be provided to the Department's Bureau of Air Regulation, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400. Any written comments filed shall be made available for public inspection. If written comments received result in a significant change in this Draft Air Construction Permit, the permitting authority shall issue a Revised Draft Air Construction Permit and require, if applicable, another Public Notice.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57 of the 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 of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000 (Telephone: 850/245-2242; Fax: 850/245-2303). Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 (fourteen) days of publication of the public notice or within 14 (fourteen) days of receipt of the notice of intent, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the permitting authority for notice of agency action may file a petition within 14 (fourteen) days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the applicable time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code (F.A.C.).

A petition that disputes the material facts on which the permitting authority's action is based must contain the following information:

(a) The name and address of each agency affected and each agency's file or identification number, if known;

(b) The name, address and telephone number of the petitioner; name address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how petitioner's substantial rights will be affected by the agency determination;

(c) A statement of how and when the petitioner received notice of the agency action or proposed action;

(d) A statement of all disputed issues of material fact. If there are none, the petition must so state;  
(e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle petitioner to relief;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and,

(g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

A petition that does not dispute the material facts upon which the permitting authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the permitting authority's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the permitting authority on the application(s) have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available for this proceeding.

A complete project file is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at:

Permitting Authority:

Department of Environmental Protection  
Bureau of Air Regulation  
111 South Magnolia Drive, Suite 4  
Tallahassee, Florida 32301  
Telephone: 850/488-0114; Fax: 850/922-6979

Affected District Office:

Department of Environmental Protection  
Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767  
Telephone: 407/894-7555

The complete project file includes the Technical Evaluation and Preliminary Determination, the associated Draft Air Construction Permit, the application, and the information submitted by the responsible official, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Program Administrator, Permitting South Section, at the above address, or call 850/488-0114, for additional information.

**Draft Air Construction Permit No. 0950111-022-AC**

**Permittee**

Walt Disney World Company <b>Walt Disney World Resort Complex</b>	File No. <b>0950111-022-AC</b>
P.O. Box 10,000 Lake Buena Vista, FL 32830-1000	Facility ID No. <b>0950111</b> SIC No. 7966
<i>Authorized Representative:</i> Lee Schmudde Responsible Official	Permit No. <b>0950111-022-AC</b> Expires: December 31, 2004

**Project and Location**

This project is to reclassify three existing diesel electric generators serving the DISC building at the Walt Disney World Complex from insignificant status to regulated status. Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil shall be limited. The nameplate rating of each generator is 1.75 megawatts (MW). The manufacturer is Spectrum Detroit Diesel. The model number is 1750DS-4. The generators were installed in November, 2002, with initial plans to operate them only as conditionally exempt emergency generators. Diesel fuel for the generators is stored in three 10,000 gallon fuel tanks. This reclassification permitting action should allow increased operational flexibility for the facility.

This facility is located at 1375 Buena Vista Drive, Orange and Osceola Counties; UTM Coordinates: Zone 17, 449.70 km East and 3138.00 km North; Latitude: 28° 22' 24" North and Longitude: 81° 32' 46" West.

This Air Construction Permit is issued under the provisions of Chapter 403 of the Florida Statutes (F.S.), and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.). The above named permittee is authorized to construct and operate in accordance with the conditions of this permit and as described in the application, approved drawings, plans, and other documents on file with the Department of Environmental Protection (Department).

The attached appendix is made a part of this permit:

Appendix GC

Construction Permit General Conditions

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Michael G. Cooke, Director  
Division of Air Resource Management

**Facility Description**

This facility consists of the following emissions units:

<b>E.U. ID No. (Facility ID No.)</b>	<b>Brief Description</b>
<u>North Service Area Dry Cleaning Plant</u>	
-001 (LDC-1)	Dry Cleaning Unit #1
<u>North Service Area (NSA)</u>	
-005 (NSA-17)	North Service Area (NSA) Central Shops Building Annex (CSBA): Sand Blast Chamber No. 1: unregulated
-006 (NSA-18)	NSA Boat Maintenance & Painting Facility
-007 (NSA-1 thru 7, 11, 12, 14 thru 16)	NSA Central Shops Building
-014 (NSA-8)	NSA Lofting Building PSB
-015 (NSA-9 & 10)	NSA CSBA
-020 (LBB-1a)	Laundry Boiler #1
-021 (LBB-1b)	Laundry Boiler #2
-022 (LBB-1c)	Laundry Boiler #3
<u>Disney's Grand Floridian Hotel</u>	
-035 (GFR2 thru 18)	16 Hot Water Heaters
<u>Disney-MGM Studios</u>	
-053 (STB-1, 2A, 2B1, 2B2, 3 thru 8)	10 Hot Water Heaters
<u>Disney-MGM Studio Tours</u>	
-061 (MGM-10)	Paint Spray Booth (PSB)
<u>Buena Vista Construction</u>	
-062 (BVC-1)	PSB
<u>Lake Buena Vista Community Village</u>	
-063 (LBV-1 & 2)	PSBs
<u>Disney Village</u>	
-065 (VM-3)	PSB
<u>Ft. Wilderness/Golf Course</u>	
-066 (FWR-4)	PSB
<u>Yacht &amp; Beach Club</u>	
-067 (YBC-3)	PSB
<u>EPCOT Center</u>	
-068 (EP-1 & 2)	PSBs
-070 (EP-3)	PSB
<u>South Service Area</u>	
-071 (SSA-1)	PSB
Administrative Area	
-072 (LAU-1 & 2)	2 Laundry Thermal Oil Heaters
Magic Kingdom	
-075 (MK-1)	PSB

Reedy Creek Improvement District/Epcot	
-076 (Epcot HWG-1 thru 3)	3 Hot Water Heaters (unregulated)
-079 (Epcot DG-1)	2.5 MW Diesel Generator
-080 (Epcot DG-2)	2.5 MW Diesel Generator
Reedy Creek Improvement District	
-081 (CEP-2)	Hot Water Heater
Blizzard Beach	
-083 (BB-1 thru 5)	5 Hot Water Heaters
Reedy Creek Improvement District	
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator
Boardwalk Resort	
-090 (BDW-1 & 2)	2 Boilers
-091 (BDW-3 thru 10)	8 Hot Water Heaters
Magic Kingdom	
-092 (MK-3)	Hot Water Heater
-093 (MK-2)	PSB
Boardwalk Resort	
-094 (BR-1)	PSB
Coronado Springs Resort	
-095 (COS-1 thru 37)	37 Hot Water Heaters
Stand-by/Emergency Generators	
-101	120 Stand-by/Emergency Generators Firing #2 FO, NG or LP Gas
Coronado Springs Resort	
-102 (COS-41)	PSB
Disney's Animal Kingdom	
-103 (DAKU-1 thru 51)	51 Hot Water Heaters
Necropsy Building	
-112 (DAK-1)	Crawford Model CB800 Animal Crematory
All Star Resort	
-113 (ASR-2 thru 108)	107 Hot Water Heaters
-114 (ASR-1)	PSB
Tree of Life Boiler	
-115 (DAKU-52)	1.075 MMBtu/hr boiler firing NG
Disney's MGM Studios Feature Animation Building	
-117	2 PSBs
NSA Monorail Building	
-118 (NSA-20)	Monorail Trains PSB
Disney's Animal Kingdom	
-119	Maintenance PSB



**Regulatory Classification and Project Description**

The facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceed 100 tons per year (TPY).

*The applicant has requested a fuel limitation usage of 254,000 gallons of diesel fuel per year for these generators.* Because these generators provide backup power for the DISC Building, a facility that houses extensive computer hardware for the Walt Disney World Resort Complex, the applicant believes that the requested fuel limitation is justified. There will be an increase in the potential levels of emissions of particulate matter (PM), nitrogen oxides (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), hydrocarbons/VOC, and carbon monoxide (CO) as a result of implementing this project, as noted below. The potential to emit (PTE) calculations in the second column in this table were based on manufacturer provided emissions factor data. In the third column are the corresponding PTE values using EPA’s AP-42 factors from Table 3.4-1. in that document.

<b>Pollutant</b>	<b>Potential to emit level (Tons per year) Using manufacturer supplied data</b>	<b>Potential to emit level (Tons per year) Using AP-42 factors</b>
Particulate Matter (PM)	<b>1.6</b>	<b>1.3</b>
Nitrogen Oxides (NO <sub>x</sub> )	<b>39.4</b>	<b>54.3</b>
Sulfur Dioxide (SO <sub>2</sub> ) (using .5% sulfur fuel, by weight)	<b>4.5</b>	<b>8.9</b>
Hydrocarbons/VOC	<b>10.5</b>	<b>1.6 (TOC)</b>
Carbon Monoxide (CO)	<b>17.5</b>	<b>14.2</b>

The applicant is seeking to escape prevention of significant deterioration (PSD) review for this permitting action. However, this emissions unit (the three diesel fuel fired electric generators), when operated under a fuel limitation of 254,000 gallons of diesel fuel per year, will exceed the significant emission rate for NO<sub>x</sub> (40 tons per year) listed in Table 212.400-2, F.A.C., using the AP-42 factors. Alternatively, using a fuel limitation of 185,000 gallons of diesel fuel will hold the potential NO<sub>x</sub> emissions increase below the 40 ton per year threshold. Sulfur content of the fuel oil shall also be held to .5%, or less, by weight. With these changes, the three electric generators will now be classified collectively as a *regulated emissions unit*. The fuel limitations are requested by the applicant to escape PSD review, as noted above. We have determined that the new proposed MACT rule does not apply to this emissions unit, since the generators are considered existing units under the rule.

Because the net increases in potential emissions for the pollutants, as noted above in the second column, are below the significant emissions rates listed in Table 212.400-2, F.A.C., Regulated Air Pollutants – Significant Emissions Rates, it has been determined that this change constitutes a minor modification to the facility. Therefore, the modification is not subject to review under Rule 62-212.400,

F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403, Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

### **Project Plan**

The applicant shall test the emissions unit to verify the accuracy of the above NOx emissions estimate range using appropriate EPA test methodology, as noted in the next section. Steady state, startup, and shut down operational phases shall be tested for emissions, as detailed in the following test protocol. District and Tallahassee offices shall be notified no less than 7 days prior to conducting the testing. Test results shall be provided to the Department within 30 calendar days after the test conclusion. *The air construction (AC) permit will initially limit the annual diesel fuel oil usage to 185,000 gallons for these three generators.* Based on the results of the tests, a determination will be made by the Department as to the appropriate maximum annual level of fuel usage for these generators, and an air construction permit modification will be issued if a higher (or lower) level of fuel usage is justified.

The emission unit affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein), and all specific conditions of the facility's existing Title V Air Operation Permit No. 0950111-021-AV.

### **Test Protocol**

The applicant has provided, and the Department has approved, the following test protocol and schedule: An EPA Method 1-4, 7E, and 9 for May 18<sup>th</sup> and 19<sup>th</sup>, 2004, at the Walt Disney World Complex DISC Building starting each day at 8 am. The purpose of the test is to confirm the emissions rate for NOx under various load conditions for this current permitting action.

The following test protocol shall be used:

- Day 1: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 60% load (about 4 hours total), then 1 shutdown run (about 15 min).
- Day 2: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 75% load, 3 runs at 100% load (about 8-hours), and 1 visible emissions test during the 100% load run, then 1 shutdown run (about 15 min).
- The only fuel allowed to be burned in this emissions unit is diesel fuel oil, with a maximum sulfur content of .5%, by weight.

The following data shall be collected during the test: Fuel consumption in gallons per hour, percent load, and power generation in megawatts. Other engine function data shall include revolutions per minute (rpm), engine temperature, and turbo boost in pounds per square inch (psi).

### Permit Schedule

- 03/31/04 Application deemed complete
- 03/31/04 Application received

### Relevant Documents

The documents listed below are the basis of the permit. They are specifically related to this permitting action, but not all are incorporated into this permit. These documents are on file with the Department.

- Application received on March 31, 2004.
- The Department's Technical Evaluation and Final Determination issued concurrently with this permit.

### Administrative Requirements

**A.1. Regulating Agencies.** All documents related to applications for permits to construct, operate or modify an emissions unit should be submitted to the Bureau of Air Regulation, Florida Department of Environmental Protection, at 2600 Blair Stone Road, Tallahassee, Florida 32399-2400, and phone number (850) 488-0114. All documents related to reports, tests, and notifications should be submitted to the Department's Central District Office in Orlando, Florida. The address and telephone numbers are:

Department of Environmental Protection  
Central District Office  
3319 Maguire Boulevard, Suite 232  
Orlando, Florida 32803-3767  
Telephone: 407/894-7555

**A.2. General Conditions.** The owner and operator is subject to, and shall operate under the attached General Permit Conditions **G.1.** through **G.15.** listed in Appendix GC of this permit. General Permit Conditions are binding and enforceable pursuant to Chapter 403 of the Florida Statutes.  
[Rule 62-4.160, F.A.C.]

**A.3. Terminology.** The terms used in this permit have specific meanings as defined in the corresponding chapters of the Florida Administrative Code (F.A.C.).

**A.4. Forms and Application Procedures.** The permittee shall use the applicable forms listed in Rule 62-210.900, F.A.C., and follow the application procedures in Chapter 62-4, F.A.C.  
[Rule 62-210.900, F.A.C.]

**A.5. New or Additional Conditions.** For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time.  
[Rule 62-4.080, F.A.C.]

**A.6. Permit Extension.** The permittee, for good cause, may request that this construction permit be extended. Such a request shall be submitted to the Department's Tallahassee Office no later than 60 days prior to the expiration of the permit.

[Rule 62-4.080, F.A.C.]

**A.7.** Unless otherwise indicated in this permit, the construction and operation of the subject emission unit shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of Chapter 403, F.S., and Florida Administrative Code Chapters 62-4, 62-103, 62-204, 62-210, 62-212, 62-213, 62-214, 62-296, and 62-297.

**A.8.** Issuance of this permit does not relieve the facility owner or operator from compliance with any applicable federal, state, or local permitting requirements or regulations.

[Rule 62-210.300, F.A.C.]

### **Operational Requirements**

**A.9.** The facility is subject to all of the requirements specified in Title V Air Operation Permit No. 0950111-021-AV.

**A.10.** The facility's responsible official shall apply for a Title V Air Operation Permit Revision that incorporates the terms and conditions of this air construction permit no later than 90 days prior to the expiration date of this permit.

[Rule 62-213.420(1)(a)1., F.A.C.]

**A.11. Operating Procedures.** Operating procedures shall include good operating practices and proper training of all operators and supervisors. The good operating practices shall meet the guidelines and procedures as established by the equipment manufacturers. All operators (including supervisors) of air pollution control devices shall be properly trained in plant specific equipment.

[Rule 62-4.070(3), F.A.C.]

**A.12. Methods of Operation. Fuels.** The only fuel allowed to be burned in this emissions unit is diesel fuel oil, with a maximum sulfur content of .5%, by weight. The amount of diesel fuel fired in the unit shall not exceed 185,000 gallons per year.

[Rule 62-4.070(3), F.A.C.; and applicant request.]

### **Testing, Compliance Determination, and Reporting**

**A.13.** A *one time test procedure* shall be performed to determine the potential annual NOx emissions for the emissions unit, as noted in the above narrative. District and Tallahassee offices shall be notified no later than 7 days prior to conducting the testing. Test results shall be provided to the Department within 30 calendar days after the test conclusion. The test report shall provide sufficient detail on the tested emission unit and the procedures used to allow the compliance authority to determine if the test was properly conducted and if the test results were properly computed. Based on the results of this testing, the annual diesel fuel usage limitation of 185,000 gallons may be adjusted by the Department via an air construction permitting action.

[Rules 62-4.070(3) and 62-297.310(8), F.A.C.]

**A.14. Sulfur Dioxide.** The permittee shall demonstrate compliance with the diesel fuel sulfur limit via a fuel analysis provided by the vendor or permittee upon each fuel delivery to the emission unit's three 10,000 gallon diesel fuel tanks.

- The fuel sulfur content, in percent by weight, for the diesel fuel shall be evaluated using either ASTM D2622-94, ASTM D4294-90 (95), ASTM D1552-95, ASTM D1266-91, or both ASTM D4057-88 and ASTM D129-95, or the latest editions.

[Rules 62-4.070(3), 62-213.440, and 62-297.440, F.A.C.]

**A.15. Recordkeeping.** The following records shall be kept at the facility:

- Total gallons of diesel fuel oil used during each month for the three generators.
- The sulfur content, in percent by weight, of all the diesel fuel delivered each month to the three 10,000 gallon tanks, based on the vendor or permittee provided fuel sample analyses. See Specific Condition **A.14.**

The records shall be maintained for a minimum of 5 years and made available to the Central District Office upon request.

[Rule 62-297.310(8), F.A.C.]

TECHNICAL EVALUATION  
AND  
PRELIMINARY DETERMINATION

Walt Disney World Company

**Walt Disney World Resort Complex**

Facility ID No. **0950111**

DEP File No. **0950111-022-AC**

Department of Environmental Protection  
Division of Air Resource Management  
Bureau of Air Regulation  
Permitting South Section

May 10, 2004

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 1.0. GENERAL INFORMATION

### 1.1. APPLICANT NAME AND ADDRESS

Walt Disney World Company  
P.O. Box 10,000  
Lake Buena Vista, FL 32830-1000

Responsible Official: Lee Schmulde

### 1.2. REVIEW AND PROCESS SCHEDULE

March 31, 2004            Air Construction Permit Application received.  
March 31, 2004            Application deemed complete.

## 2.0. FACILITY INFORMATION

This facility is located at 1375 Buena Vista Drive, Orange and Osceola Counties; UTM Coordinates: Zone 17, 449.70 km East and 3138.00 km North; Latitude: 28° 22' 24" North and Longitude: 81° 32' 46" West.

SIC codes are:

Industry Group No.	79	Amusement and Recreation Services
Industry No.	7996	Amusement Parks

This facility consists of the following emissions units:

E.U. ID No. (Facility ID No.)	Brief Description
<i>North Service Area Dry Cleaning Plant</i>	
-001 (LDC-1)	Dry Cleaning Unit #1
<i>North Service Area (NSA)</i>	
-005 (NSA-17)	North Service Area (NSA) Central Shops Building Annex (CSBA): Sand Blast Chamber No. 1: unregulated
-006 (NSA-18)	NSA Boat Maintenance & Painting Facility
-007 (NSA-1 thru 7, 11, 12, 14 thru 16)	NSA Central Shops Building
-014 (NSA-8)	NSA Lofting Building PSB
-015 (NSA-9 & 10)	NSA CSBA
-020 (LBB-1a)	Laundry Boiler #1
-021 (LBB-1b)	Laundry Boiler #2
-022 (LBB-1c)	Laundry Boiler #3
<i>Disney's Grand Floridian Hotel</i>	
-035 (GFR2 thru 18)	16 Hot Water Heaters

## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

<u>Disney-MGM Studios</u>	
-053 (STB-1, 2A, 2B1, 2B2, 3 thru 8)	10 Hot Water Heaters
<u>Disney-MGM Studio Tours</u>	
-061 (MGM-10)	Paint Spray Booth (PSB)
<u>Buena Vista Construction</u>	
-062 (BVC-1)	PSB
<u>Lake Buena Vista Community Village</u>	
-063 (LBV-1 & 2)	PSBs
<u>Disney Village</u>	
-065 (VM-3)	PSB
<u>Ft. Wilderness/Golf Course</u>	
-066 (FWR-4)	PSB
<u>Yacht &amp; Beach Club</u>	
-067 (YBC-3)	PSB
<u>EPCOT Center</u>	
-068 (EP-1 & 2)	PSBs
-070 (EP-3)	PSB
<u>South Service Area</u>	
-071 (SSA-1)	PSB
Administrative Area	
-072 (LAU-1 & 2)	2 Laundry Thermal Oil Heaters
Magic Kingdom	
-075 (MK-1)	PSB
Reedy Creek Improvement District/Epcot	
-076 (Epcot HWG-1 thru 3)	3 Hot Water Heaters (unregulated)
-079 (Epcot DG-1)	2.5 MW Diesel Generator
-080 (Epcot DG-2)	2.5 MW Diesel Generator
Reedy Creek Improvement District	
-081 (CEP-2)	Hot Water Heater
Blizzard Beach	
-083 (BB-1 thru 5)	5 Hot Water Heaters
Reedy Creek Improvement District	
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator
Boardwalk Resort	
-090 (BDW-1 & 2)	2 Boilers
-091 (BDW-3 thru 10)	8 Hot Water Heaters
Magic Kingdom	
-092 (MK-3)	Hot Water Heater
-093 (MK-2)	PSB
Boardwalk Resort	
-094 (BR-1)	PSB



## TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Coronado Springs Resort	
-095 (COS-1 thru 37)	37 Hot Water Heaters
Stand-by/Emergency Generators	
-101	120 Stand-by/Emergency Generators Firing #2 FO, NG or LP Gas
Coronado Springs Resort	
-102 (COS-41)	PSB
Disney's Animal Kingdom	
-103 (DAKU-1 thru 51)	51 Hot Water Heaters
Necropsy Building	
-112 (DAK-1)	Crawford Model CB800 Animal Crematory
All Star Resort	
-113 (ASR-2 thru 108)	107 Hot Water Heaters
-114 (ASR-1)	PSB
Tree of Life Boiler	
-115 (DAKU-52)	1.075 MMBtu/hr boiler firing NG
Disney's MGM Studios Feature Animation Building	
-117	2 PSBs
NSA Monorail Building	
-118 (NSA-20)	Monorail Trains PSB
Disney's Animal Kingdom	
-119	Maintenance PSB

This facility is classified as a Major or Title V Source of air pollution because emissions of at least one regulated air pollutant, such as particulate matter (PM/PM<sub>10</sub>), sulfur dioxide (SO<sub>2</sub>), nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), or volatile organic compounds (VOC) exceed 100 tons per year (TPY). This facility is also a major source of hazardous air pollutants (HAPs).

The facility is located in an area (Orange and Osceola Counties) designated "unclassifiable" for PM<sub>10</sub>, "air quality maintenance" for ozone (Orange County only), and "attainment" for all the other criteria pollutants (Rule 62-204.340, F.A.C.).

The facility's existing Title V Air Operation Permit Renewal has an effective date of January 1, 2003, and will expire on December 31, 2007.

### 3.0. PROJECT DESCRIPTION

This project is to reclassify three existing diesel electric generators serving the DISC building from insignificant status to regulated status. Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil will be limited. The nameplate rating of each generator is 1.75 megawatts (MW). The manufacturer is Spectrum Detroit Diesel. The model number is 1750DS-4. The generators were installed in November, 2002, with initial plans to operate them only as conditionally exempt emergency generators. This reclassification permitting action should allow increased operational flexibility for the facility.

# TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

## 4.0. PROJECT EMISSIONS & RULE APPLICABILITY

The applicant has requested a fuel limitation usage of 254,000 gallons of diesel fuel per year for these generators. Because these generators provide backup power for the DISC Building, a facility that houses extensive computer hardware for the Walt Disney World Resort Complex, the applicant believes that the requested fuel limitation is justified. There will be an increase in the potential levels of emissions of particulate matter (PM), nitrogen oxides (NOx), sulfur dioxide (SO<sub>2</sub>), hydrocarbons/VOC, and carbon monoxide (CO) as a result of implementing this project, as noted below. The potential to emit (PTE) calculations in the second column in this table were based on manufacturer provided emissions factor data. In the third column are the corresponding PTE values using EPA's AP-42 factors from Table 3.4-1. in that document.

<b>Pollutant</b>	<b>Potential to emit level (Tons per year) Using manufacturer supplied data</b>	<b>Potential to emit level (Tons per year) Using AP-42 factors</b>
Particulate Matter (PM)	1.6	1.3
Nitrogen Oxides (NOx)	39.4	54.3
Sulfur Dioxide (SO <sub>2</sub> ) (using .5% sulfur fuel, by weight)	4.5	8.9
Hydrocarbons/VOC	10.5	1.6 (TOC)
Carbon Monoxide (CO)	17.5	14.2

The applicant is seeking to escape prevention of significant deterioration (PSD) review for this permitting action. However, this emissions unit (the three diesel fuel fired electric generators), when operated under a fuel limitation of 254,000 gallons of diesel fuel per year, will exceed the significant emission rate for NOx (40 tons per year) listed in Table 212.400-2, F.A.C., using the AP-42 factors. Alternatively, using a fuel limitation of 185,000 gallons of diesel fuel will hold the potential NOx emissions increase below the 40 ton per year threshold. Sulfur content of the fuel oil shall also be held to .5%, or less, by weight. With these changes, the three electric generators will now be classified collectively as a *regulated emissions unit*. The fuel limitations are requested by the applicant to escape PSD review, as noted above. We have determined that the new proposed MACT rule does not apply to this emissions unit, since the generators are considered existing units under the rule.

Because the net increases in potential emissions for the pollutants, as noted above in the second column, are below the significant emissions rates listed in Table 212.400-2, F.A.C., Regulated Air Pollutants – Significant Emissions Rates, it has been determined that this change constitutes a minor modification to the facility. Therefore, the modification is not subject to review under Rule 62-212.400, F.A.C., Prevention of Significant Deterioration (PSD), so neither a revised Best Available Control Technology (BACT) determination nor an analysis of the air quality impact is required. The proposed project is otherwise subject to preconstruction review requirements under the provisions of Chapter 403,

# **TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION**

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Florida Statutes, and Chapters 62-4, 62-204, 62-210, 62-212, 62-296, and 62-297 of the Florida Administrative Code (F.A.C.).

The applicant shall test the emissions unit to verify the accuracy of the above NO<sub>x</sub> emissions estimate range using appropriate EPA test methodology, as noted in the next section. Steady state, startup, and shut down operational phases shall be tested for emissions, as detailed in the following test protocol. District and Tallahassee offices shall be notified no less than 7 days prior to conducting the testing. Test results shall be provided to the Department within 30 calendar days after the test conclusion. *The air construction (AC) permit will initially limit the annual diesel fuel oil usage to 185,000 gallons for these three generators.* Based on the results of the tests, a determination will be made by the Department as to the appropriate maximum annual level of fuel usage for these generators, and an air construction permit modification will be issued if a higher (or lower) level of fuel usage is justified.

The emission unit affected by this permit shall comply with all applicable provisions of the Florida Administrative Code (including applicable portions of the Code of Federal Regulations incorporated therein), and all specific conditions of the facility's existing Title V Air Operation Permit No. 0950111-021-AV.

## **4.1. TEST PROTOCOL**

The applicant has provided, and the Department has approved, the following test schedule: An EPA Method 1-4, 7E, and 9 for May 18<sup>th</sup> and 19<sup>th</sup>, 2004, at the Walt Disney World Resort Complex DISC Building starting each day at 8 am. The purpose of the test is to confirm the emissions rate for NO<sub>x</sub> under various load conditions for this current permitting action.

The following test protocol shall be used:

- Day 1: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 60% load (about 4 hours total), then 1 shutdown run (about 15 min).
- Day 2: 1 run during startup (about 1 hour or until the engine is at steady-state temperature and pressure, 3 runs at 75% load, 3 runs at 100% load (about 8-hours), and 1 visible emissions test during the 100% load run, then 1 shutdown run (about 15 min).
- The only fuel allowed to be burned in this emissions unit is diesel fuel oil, with a maximum sulfur content of .5%, by weight.

The following data will be collected during the test: Fuel consumption in gallons per hour, percent load, and power generation in megawatts. Other engine function data shall include revolutions per minute (rpm), engine temperature, and turbo boost in pounds per square inch (psi).

## **5.0. CONCLUSION**

Based on the foregoing technical evaluation of the application and additional information submitted by the applicant and other available information, the Department has made a preliminary determination that the proposed project will comply with all applicable state and federal air pollution regulations. The Department will issue a draft Air Construction Permit to the applicant that provides for the above changes at the facility.

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:  
 Mr. Lee Schudde  
 Responsible Official  
 Walt Disney World Company  
 Walt Disney World Resort  
 Complex  
 Post Office Box 10,000  
 Lake Buena Vista, Florida  
 32830-1000

2. Article Number 7000 1670 0013 3109 9632  
 (Transfer from service label)

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature  Agent  
 Addressee

B. Received by (Printed Name) SEAN BISON C. Date of Delivery

D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below  No

3. Service Type  
 Certified Mail  Express Mail  
 Registered  Return Receipt for Merchandise  
 Insured Mail  C.O.D.

4. Restricted Delivery? (Extra Fee)  Yes

**U.S. Postal Service  
 CERTIFIED MAIL RECEIPT  
 (Domestic Mail Only; No Insurance Coverage Provided)**

7000 1670 0013 3109 9632

[Blank space for stamp]

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$</b>

Postmark  
Here

Sent To  
 Mr. Lee Schudde  
 Street, Apt. No., or PO Box No.  
 Post Office Box 10,000  
 City, State, ZIP+4  
 Lake Buena Vista, Florida 32830-1000



WALT DISNEY World Co.

RECEIVED  
MAR 31 2004  
BUREAU OF AIR REGULATION

March 30, 2004

Mr. Al Linero  
Title V Section  
Florida Department of Environmental Protection  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

RE: Construction Permit Application  
Walt Disney World Co.  
Three DISC Building Diesel Generators

Dear Mr. Linero:

Enclosed are four copies of a construction permit application for three diesel electric generators at the Walt Disney World Resort DISC Building. The generators are currently conditionally exempt from permitting since they are being used as emergency generators. This application is being submitted in order to reclassify them as unregulated emissions units to allow greater operational flexibility.

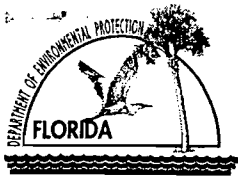
If you have any questions or need any further information, please call me at 407-824-7129.

Sincerely,

Rich Bumar, PE  
Sr. Environmental Control Representative

Enclosure

cc: Alan Zahm, CD



# Department of Environmental Protection

RECEIVED

MAR 31 2004

Division of Air Resource Management

BUREAU OF AIR REGULATION

## APPLICATION FOR AIR PERMIT - LONG FORM

### I. APPLICATION INFORMATION

**Air Construction Permit** – Use this form to apply for an air construction permit for a proposed project:

- subject to prevention of significant deterioration (PSD) review, nonattainment area (NAA) new source review, or maximum achievable control technology (MACT) review; or
- where the applicant proposes to assume a restriction on the potential emissions of one or more pollutants to escape a federal program requirement such as PSD review, NAA new source review, Title V, or MACT; or
- at an existing federally enforceable state air operation permit (FESOP) or Title V permitted facility.

**Air Operation Permit** – Use this form to apply for:

- an initial federally enforceable state air operation permit (FESOP); or
- an initial/revised/renewal Title V air operation permit.

**Air Construction Permit & Revised/Renewal Title V Air Operation Permit (Concurrent Processing Option)**  
– Use this form to apply for both an air construction permit and a revised or renewal Title V air operation permit incorporating the proposed project.

To ensure accuracy, please see form instructions.

#### Identification of Facility

1. Facility Owner/Company Name: Walt Disney World Co.	
2. Site Name: Walt Disney World Resort Complex	
3. Facility Identification Number: 0950111	
4. Facility Location... Walt Disney World Area Street Address or Other Locator: 1375 Buena Vista Dr. City: Lake Buena Vista                      County: Orange (48)                      Zip Code: 32830-1000	
5. Relocatable Facility? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	6. Existing Title V Permitted Facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

#### Application Contact

1. Application Contact Name: Richard A. Bumar, Jr., P.E.	
2. Application Contact 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. Application Contact Telephone Numbers... Telephone: (407 ) 824-7129      ext.                      Fax: (407 ) 824 - 7455	
4. Application Contact Email Address: rich.bumar@disney.com	

#### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	3-31-04
2. Project Number(s):	0950111-022AC
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

## APPLICATION INFORMATION

### Purpose of Application

This application for air permit is submitted to obtain: (Check one)

#### **Air Construction Permit**

Air construction permit.

#### **Air Operation Permit**

Initial Title V air operation permit.

Title V air operation permit revision.

Title V air operation permit renewal.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is required.

Initial federally enforceable state air operation permit (FESOP) where professional engineer (PE) certification is not required.

#### **Air Construction Permit and Revised/Renewal Title V Air Operation Permit (Concurrent Processing)**

Air construction permit and Title V permit revision, incorporating the proposed project.

Air construction permit and Title V permit renewal, incorporating the proposed project.

**Note: By checking one of the above two boxes, you, the applicant, are requesting concurrent processing pursuant to Rule 62-213.405, F.A.C. In such case, you must also check the following box:**

I hereby request that the department waive the processing time requirements of the air construction permit to accommodate the processing time frames of the Title V air operation permit.

### Application Comment

The purpose of this application is to receive a construction permit for three diesel generators. The generators were initially installed in November 2002 to operate only as conditionally exempt emergency generators. This application is being submitted to reclassify the generators as unregulated emissions units to allow operational flexibility.

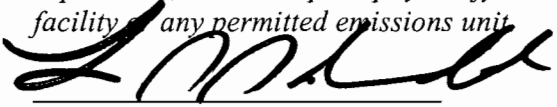




**APPLICATION INFORMATION**

**Owner/Authorized Representative Statement**

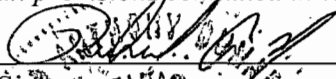
**Complete if applying for an air construction permit or an initial FESOP.**

1. Owner/Authorized Representative Name : Lee Schmutde
2. Owner/Authorized Representative Mailing Address... Organization/Firm: Walt Disney World Co. Street Address: P.O. Box 10,000 City: Lake Buena Vista Zip Code: 32830-1000
3. Owner/Authorized Representative Telephone Numbers... Telephone: ( 407 ) 828-1723 ext. Fax: ( 407 ) 828-4311
4. Owner/Authorized Representative Email Address:
5. Owner/Authorized Representative Statement:  <i>I, the undersigned, am the owner or authorized representative of the facility addressed in this air permit application. 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. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained 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 and all other requirements identified in this application to which the facility is subject. 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 the facility or any permitted emissions unit.</i>   Signature  3/15/07 Date

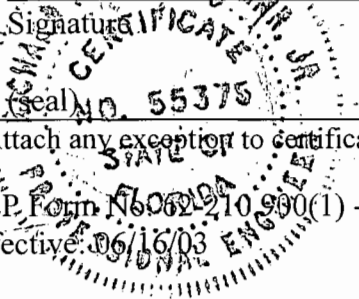
**APPLICATION INFORMATION**

**Professional Engineer Certification**

1. Professional Engineer Name: Richard A. Bumar, Jr. Registration Number: 55375
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) 824-7129 ext. Fax: (407) 824-7455
4. Professional Engineer Email Address: rich.bumar@disney.com
5. Professional Engineer Statement: <i>I, the undersigned, hereby certify, except as particularly noted herein*, that:</i>  <p>(1) To the best of my knowledge, there is reasonable assurance 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; and</p> <p>(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.</p> <p>(3) If the purpose of this application is to obtain a Title V air operation permit (check here <input type="checkbox"/>, if so), I further certify 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 plan and schedule is submitted with this application.</p> <p>(4) If the purpose of this application is to obtain an air construction permit (check here <input checked="" type="checkbox"/>, if so) or concurrently process and obtain an air construction permit and a Title V air operation permit revision or renewal for one or more proposed new or modified emissions units (check here <input type="checkbox"/>, if so), I further certify that 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.</p> <p>(5) If the purpose of this application is to obtain an initial air operation permit or operation permit revision or renewal for one or more newly constructed or modified emissions units (check here <input type="checkbox"/>, if so), I further 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.</p>

Signature: 

Date: 3/15/04



\* Attach any exception to certification statement.

## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates... Zone           East (km)   449.70 North (km)  3138.00		2. Facility Latitude/Longitude... Latitude (DD/MM/SS) Longitude (DD/MM/SS)	
3. Governmental Facility Code: 0	4. Facility Status Code: A	5. Facility Major Group SIC Code: 79	6. Facility SIC(s): 7996
7. Facility Comment :			

#### Facility Contact

1. Facility Contact Name: Armando Rodriguez
2. Facility Contact Mailing Address... Organization/Firm: Walt Disney World Co. Street Address: P.O. Box 10000 City: Lake Buena Vista   State: FL                   Zip Code: 32830-1000
3. Facility Contact Telephone Numbers: Telephone: (407) 824-7486   ext.   Fax:       (407) 824-7455
4. Facility Contact Email Address: Armando.rodriguex@disney.com

#### Facility Primary Responsible Official

**Complete if an "application responsible official" is identified in Section I. that is not the facility "primary responsible official."**

1. Facility Primary Responsible Official Name: N/A
2. Facility Primary Responsible Official Mailing Address... Organization/Firm: Street Address: City:                                   State:                                   Zip Code:
3. Facility Primary Responsible Official Telephone Numbers... Telephone: ( ) -       ext.       Fax: ( ) -
4. Facility Primary Responsible Official Email Address:

## FACILITY INFORMATION

### Facility Regulatory Classifications

Check all that would apply *following* completion of all projects and implementation of all other changes proposed in this application for air permit. Refer to instructions to distinguish between a “major source” and a “synthetic minor source.”

1.	<input type="checkbox"/> Small Business Stationary Source	<input type="checkbox"/> Unknown
2.	<input type="checkbox"/> Synthetic Non-Title V Source	
3.	<input checked="" type="checkbox"/> Title V Source	
4.	<input checked="" type="checkbox"/> Major Source of Air Pollutants, Other than Hazardous Air Pollutants (HAPs)	
5.	<input type="checkbox"/> Synthetic Minor Source of Air Pollutants, Other than HAPs	
6.	<input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)	
7.	<input type="checkbox"/> Synthetic Minor Source of HAPs	
8.	<input type="checkbox"/> One or More Emissions Units Subject to NSPS (40 CFR Part 60)	
9.	<input type="checkbox"/> One or More Emissions Units Subject to Emission Guidelines (40 CFR Part 60)	
10.	<input checked="" type="checkbox"/> One or More Emissions Units Subject to NESHAP (40 CFR Part 61 or Part 63)	
11.	<input type="checkbox"/> Title V Source Solely by EPA Designation (40 CFR 70.3(a)(5))	
12.	Facility Regulatory Classifications Comment:	

**FACILITY INFORMATION**

**List of Pollutants Emitted by Facility**

1. Pollutant Emitted	2. Pollutant Classification	3. Emissions Cap [Y or N]?
N/A		



**FACILITY INFORMATION**

**C. FACILITY ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Facility Plot Plan: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment A</u> <input type="checkbox"/> Previously Submitted, Date: _____
2. Process Flow Diagram(s): (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment B</u> <input type="checkbox"/> Previously Submitted, Date: _____
3. Precautions to Prevent Emissions of Unconfined Particulate Matter: (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment C</u> <input type="checkbox"/> Previously Submitted, Date: _____

**Additional Requirements for Air Construction Permit Applications**

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment D</u> <input type="checkbox"/> Not Applicable (existing permitted facility)
2. Description of Proposed Construction or Modification: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment E</u>
3. Rule Applicability Analysis: <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment F</u>
4. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility)
5. Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
6. Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
8. Air Quality Impact since 1977 (Rule 62-212.400(5)(h)5., F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**FACILITY INFORMATION**

**Additional Requirements for FESOP Applications**

- |   |
|---|
| 1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.):<br><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (no exempt units at facility) |
|---|

**Additional Requirements for Title V Air Operation Permit Applications**

- |  |
|--|
| 1. List of Insignificant Activities (Required for initial/renewal applications only):<br><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable (revision application) |
|--|

- |  |
|--|
| 2. Identification of Applicable Requirements (Required for initial/renewal applications, and for revision applications if this information would be changed as a result of the revision being sought):<br><input type="checkbox"/> Attached, Document ID: _____<br><input checked="" type="checkbox"/> Not Applicable (revision application with no change in applicable requirements) |
|--|

- |  |
|--|
| 3. Compliance Report and Plan (Required for all initial/revision/renewal applications):<br><input type="checkbox"/> Attached, Document ID: _____<br>Note: A compliance plan must be submitted for each emissions unit that is not in compliance with all applicable requirements at the time of application and/or at any time during application processing. The department must be notified of any changes in compliance status during application processing. |
|--|

- |  |
|--|
| 4. List of Equipment/Activities Regulated under Title VI (If applicable, required for initial/renewal applications only):<br><input type="checkbox"/> Attached, Document ID: _____<br><input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed<br><input checked="" type="checkbox"/> Not Applicable |
|--|

- |   |
|---|
| 5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only) :<br><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
|---|

- |   |
|---|
| 6. Requested Changes to Current Title V Air Operation Permit:<br><input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable |
|---|

**Additional Requirements Comment**

Please see the Walt Disney World Title V permit (0950111-021-AV) for a listing of exempt and insignificant activities/emissions units at this facility. The most recent compliance report was submitted to the FDEP on February 26 and all emissions units were in compliance.
--



## EMISSIONS UNIT INFORMATION

Section [1] of [1]

### III. EMISSIONS UNIT INFORMATION

**Title V Air Operation Permit Application** - For Title V air operation permitting only, emissions units are classified as regulated, unregulated, or insignificant. If this is an application for Title V air operation permit, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each regulated and unregulated emissions unit addressed in this application for air permit. Some of the subsections comprising the Emissions Unit Information Section of the form are optional for unregulated emissions units. Each such subsection is appropriately marked. Insignificant emissions units are required to be listed at Section II, Subsection C.

**Air Construction Permit or FESOP Application** - For air construction permitting or federally enforceable state air operation permitting, emissions units are classified as either subject to air permitting or exempt from air permitting. The concept of an "unregulated emissions unit" does not apply. If this is an application for air construction permit or FESOP, a separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air permitting are required to be listed at Section II, Subsection C.

**Air Construction Permit and Revised/Renewal Title V Air Operation Permit Application** - Where this application is used to apply for both an air construction permit and a revised/renewal Title V air operation permit, each emissions unit is classified as either subject to air permitting or exempt from air permitting for air construction permitting purposes and as regulated, unregulated, or insignificant for Title V air operation permitting purposes. **The air construction permitting classification must be used to complete the Emissions Unit Information Section of this application for air permit.** A separate Emissions Unit Information Section (including subsections A through I as required) must be completed for each emissions unit subject to air permitting addressed in this application for air permit. Emissions units exempt from air construction permitting and insignificant emissions units are required to be listed at Section II, Subsection C.

If submitting the application form in hard copy, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application must be indicated in the space provided at the top of each page.

**EMISSIONS UNIT INFORMATION**

Section [1] of [1]

**A. GENERAL EMISSIONS UNIT INFORMATION**

**Title V Air Operation Permit Emissions Unit Classification**

1. Regulated or Unregulated Emissions Unit? (Check one, if applying for an initial, revised or renewal Title V air operation permit. Skip this item if applying for an air construction permit or FESOP only.)
<input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.
<input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.

**Emissions Unit Description and Status**

1. Type of Emissions Unit Addressed in this Section: (Check one)				
<input checked="" type="checkbox"/> 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).				
<input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a 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.				
<input type="checkbox"/> 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.				
2. Description of Emissions Unit Addressed in this Section: 3 Disc Building Standby Diesel Electric Generators				
3. Emissions Unit Identification Number: No corresponding ID exists				
4. Emissions Unit Status Code: A	5. Commence Construction Date: 11/26/2002	6. Initial Startup Date:	7. Emissions Unit Major Group SIC Code: 7996	8. Acid Rain Unit? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
9. Package Unit: Manufacturer: Spectrum Detroit Diesel      Model Number: 1750DS-4				
10. Generator Nameplate Rating: 1.75 MW				
11. Emissions Unit Comment: This emissions unit consists of three identical diesel electric generators				

**EMISSIONS UNIT INFORMATION**

**Section [1] of [1]**

**Emissions Unit Control Equipment**

<p>1. Control Equipment/Method(s) Description:</p> <p>None</p>
<p>2. Control Device or Method Code(s): N/A</p>

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**B. EMISSIONS UNIT CAPACITY INFORMATION**

**(Optional for unregulated emissions units.)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Process or Throughput Rate: 254,000 gallons per year
2. Maximum Production Rate: N/A
3. Maximum Heat Input Rate: 47.362 million Btu/hr
4. Maximum Incineration Rate: N/A pounds/hr N/A tons/day
5. Requested Maximum Operating Schedule: 24 hours/day 7 days/week 52 weeks/year 8760 hours/year
6. Operating Capacity/Schedule Comment:  The requested permitted operating capacity limit is 254,000 gallons of diesel fuel per year. This limit is requested to avoid the PSD significance threshold for NOx. The worst case operating mode for this emissions unit at 254,000 gallons per year will result in an emissions rate of 39.4 tons of NOx per year.

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**C. EMISSION POINT (STACK/VENT) INFORMATION  
(Optional for unregulated emissions units.)****Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram: NSA-21		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking: The emissions point for each unit is an 18 diameter opening, exiting horizontally from the south side of the generator enclosure building.			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common: None			
5. Discharge Type Code: H	6. Stack Height: feet 15	7. Exit Diameter: feet 1.2	
8. Exit Temperature: 831 °F	9. Actual Volumetric Flow Rate: acfm 14000	10. Water Vapor: N/A%	
11. Maximum Dry Standard Flow Rate: dscfm N/A		12. Nonstack Emission Point Height: feet N/A	
13. Emission Point UTM Coordinates... Zone: East (km): North (km):		14. Emission Point Latitude/Longitude... Latitude (DD/MM/SS) 28°15'43'' Longitude (DD/MM/SS) 81°34'31''	
15. Emission Point Comment: This emissions point is representative of three emissions point in this emissions unit.			

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**D. SEGMENT (PROCESS/FUEL) INFORMATION**

**Segment Description and Rate:** Segment 1 of 1

1. Segment Description (Process/Fuel Type): Burning diesel fuel in a diesel electric generator		
2. Source Classification Code (SCC): 20200401		3. SCC Units: 1000 gallons burned
4. Maximum Hourly Rate: 0.3432	5. Maximum Annual Rate: 254	6. Estimated Annual Activity Factor: N/A
7. Maximum % Sulfur: 0.1	8. Maximum % Ash: N/A	9. Million Btu per SCC Unit: 138
10. Segment Comment: The maximum hourly rate is for the entire emissions unit (3 generators operating simultaneously). The units individually operate at a maximum fuel usage rate of 114.4 gal/hr.		

**Segment Description and Rate:** Segment    of   

1. Segment Description (Process/Fuel Type):		
2. Source Classification Code (SCC):		3. SCC Units:
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment:		



**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

**Potential/Estimated Fugitive Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: NOx	2. Total Percent Efficiency of Control: 0.0
3. Potential Emissions: 103.8 lb/hour                      39.4 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year	
6. Emission Factor: 2.246 lb/MMBtu  Reference: Manufacturer provided emissions data	7. Emissions Method Code: 5
8. Calculation of Emissions:  2.246 lb/MMBtu x 254,000 gallons/yr x 0.138 MMBtu/gal = 78,726 lb/yr 78,726 lb/yr x 1 ton/2000 lb = 39.36 tons NOx/yr	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: N/A	



**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

**Potential/Estimated Fugitive Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: CO	2. Total Percent Efficiency of Control: 0.0
3. Potential Emissions: 13.91 lb/hour                      17.53 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year	
6. Emission Factor: 1.00 lb/MMBtu  Reference: Manufacturer provided emissions data	7. Emissions Method Code: 5
8. Calculation of Emissions:  1.00 lb/MMBtu x 254,000 gallons/yr x 0.138 MMBtu/gal = 35,052 lb CO/yr 35,052 lb/yr x 1 ton/2000 lb = 17.53 tons CO/yr	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: N/A	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

**Potential/Estimated Fugitive Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: SO2	2. Total Percent Efficiency of Control: 0.0
3. Potential Emissions: 12.19 lb/hour                      4.52 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year	
6. Emission Factor: 0.2578 lb/MMbtu  Reference: Manufacturer provided emissions data	7. Emissions Method Code: 5
8. Calculation of Emissions:  0.2578 lb/MMBtu x 254,000 gallons/yr x 0.138 MMBtu/gal = 9,036 lb SO2/yr 9,036 lb/yr x 1 ton/2000 lb = 4.52 tons SO2/yr	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: N/A	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_\_ of \_\_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

(Optional for unregulated emissions units.)

**Potential/Estimated Fugitive Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: Hydrocarbons/VOC	2. Total Percent Efficiency of Control: 0.0
3. Potential Emissions: 8.34 lb/hour                      10.5 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to    tons/year	
6. Emission Factor: 0.6 lb/MMBtu  Reference: Manufacturer provided emissions data	7. Emissions Method Code: 5
8. Calculation of Emissions:  0.6 lb/MMBtu x 254,000 gallons/yr x 0.138 MMBtu/gal = 21,031 lb HC-VOC/yr 21,031 lb/yr x 1 ton/2000 lb = 10.5 tons HC-VOC/yr	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: N/A	

**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**F1. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION –  
 POTENTIAL/ESTIMATED FUGITIVE EMISSIONS**

**(Optional for unregulated emissions units.)**

**Potential/Estimated Fugitive Emissions**

**Complete for each pollutant identified in Subsection E if applying for an air construction permit or concurrent processing of an air construction permit and a revised or renewal Title V permit. Complete for each emissions-limited pollutant identified in Subsection E if applying for an air operation permit.**

1. Pollutant Emitted: PM	2. Total Percent Efficiency of Control: 0.0
3. Potential Emissions: 1.5 lb/hour                      1.55 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5. Range of Estimated Fugitive Emissions (as applicable): N/A to tons/year	
6. Emission Factor: 0.0884 lb/MMBtu  Reference: Manufacturer provided emissions data	7. Emissions Method Code: 5
8. Calculation of Emissions:  0.0884 lb/MMBtu x 254,000 gallons/yr x 0.138 MMBtu/gal = 3,099 lb PM/yr 3,099 lb/yr x 1 ton/2000 lb = 1.55 tons PM/yr	
9. Pollutant Potential/Estimated Fugitive Emissions Comment: N/A	



**F2. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION -  
 ALLOWABLE EMISSIONS**

**Complete if the pollutant identified in Subsection F1 is or would be subject to a numerical emissions limitation.**

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**Allowable Emissions** Allowable Emissions \_\_ of \_\_

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour                      tons/year
5. Method of Compliance:	
6. Allowable Emissions Comment (Description of Operating Method):	

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**G. VISIBLE EMISSIONS INFORMATION**

**Complete if this emissions unit is or would be subject to a unit-specific visible emissions limitation.**

**Visible Emissions Limitation:** Visible Emissions Limitation 1 of 1

1. Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: <input checked="" type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: 20 % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance: EPA Method 9	
5. Visible Emissions Comment: General VE standard	

**Visible Emissions Limitation:** Visible Emissions Limitation \_\_\_ of \_\_\_

1. Visible Emissions Subtype:	2. Basis for Allowable Opacity: <input type="checkbox"/> Rule <input type="checkbox"/> Other
3. Allowable Opacity: Normal Conditions: % Exceptional Conditions: % Maximum Period of Excess Opacity Allowed: min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment:	

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**H. CONTINUOUS MONITOR INFORMATION**

**Complete if this emissions unit is or would be subject to continuous monitoring.**

**Continuous Monitoring System:** Continuous Monitor  1  of  1

1. Parameter Code: N/A	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

**Continuous Monitoring System:** Continuous Monitor   of

1. Parameter Code:	2. Pollutant(s):
3. CMS Requirement:	<input type="checkbox"/> Rule <input type="checkbox"/> Other
4. Monitor Information... Manufacturer: Model Number:	Serial Number:
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment:	

**EMISSIONS UNIT INFORMATION**

Section [ 1 ] of [ 1 ]

**I. EMISSIONS UNIT ADDITIONAL INFORMATION**

**Additional Requirements for All Applications, Except as Otherwise Stated**

1. Process Flow Diagram (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment B</u> <input type="checkbox"/> Previously Submitted, Date _____
2. Fuel Analysis or Specification (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>Attachment G</u> <input checked="" type="checkbox"/> Previously Submitted, Date _____
3. Detailed Description of Control Equipment (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: <u>N/A</u> <input type="checkbox"/> Previously Submitted, Date _____
4. Procedures for Startup and Shutdown (Required for all operation permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable (construction application)
5. Operation and Maintenance Plan (Required for all permit applications, except Title V air operation permit revision applications if this information was submitted to the department within the previous five years and would not be altered as a result of the revision being sought) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date _____ <input checked="" type="checkbox"/> Not Applicable
6. Compliance Demonstration Reports/Records <input type="checkbox"/> Attached, Document ID: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> Previously Submitted, Date: _____ Test Date(s)/Pollutant(s) Tested: _____ <input type="checkbox"/> To be Submitted, Date (if known): _____ Test Date(s)/Pollutant(s) Tested: _____ <input checked="" type="checkbox"/> Not Applicable  Note: For FESOP applications, all required compliance demonstration records/reports must be submitted at the time of application. For Title V air operation permit applications, all required compliance demonstration reports/records must be submitted at the time of application, or a compliance plan must be submitted at the time of application.
7. Other Information Required by Rule or Statute <input checked="" type="checkbox"/> Attached, Document ID: <u>Attachment H</u> <input type="checkbox"/> Not Applicable

**EMISSIONS UNIT INFORMATION**

Section [ ] of [ ]

**Additional Requirements for Air Construction Permit Applications**

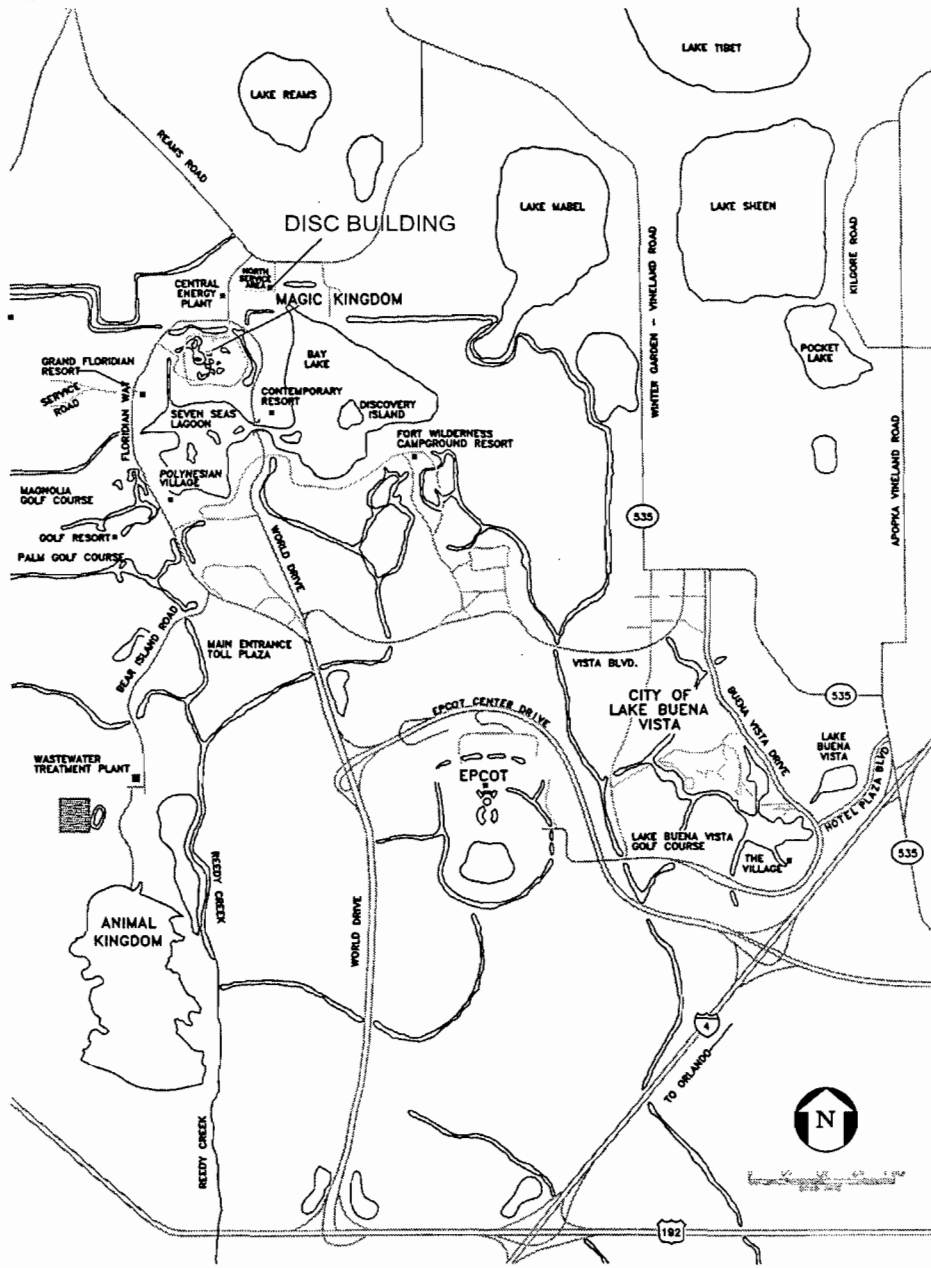
1. Control Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), F.A.C.; 40 CFR 63.43(d) and (e)) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
2. Good Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and Rule 62-212.500(4)(f), F.A.C.) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Description of Stack Sampling Facilities (Required for proposed new stack sampling facilities only) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements for Title V Air Operation Permit Applications**

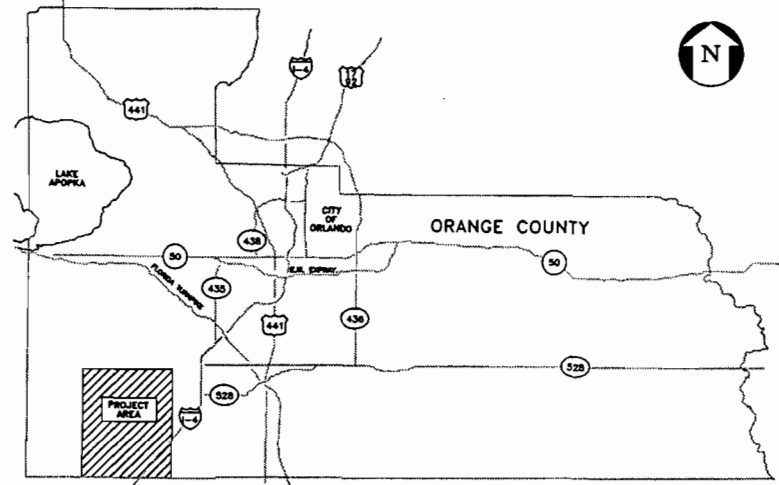
1. Identification of Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____
2. Compliance Assurance Monitoring <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
3. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
4. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
5. Acid Rain Part Application <input type="checkbox"/> Certificate of Representation (EPA Form No. 7610-1) <input type="checkbox"/> Copy Attached, Document ID: _____ <input type="checkbox"/> Acid Rain Part (Form No. 62-210.900(1)(a)) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input type="checkbox"/> Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously Submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable

**Additional Requirements Comment**

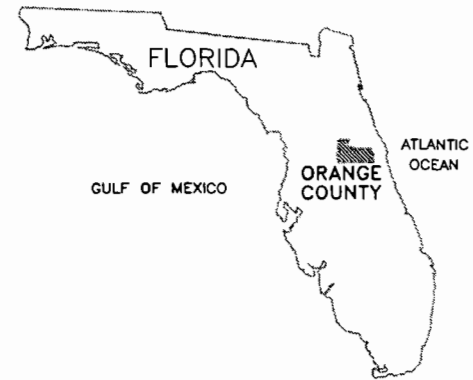
This unregulated emissions unit has no control equipment.  
Attachment H contains manufacturer specifications and emissions rate information.



SITE LOCATION MAP

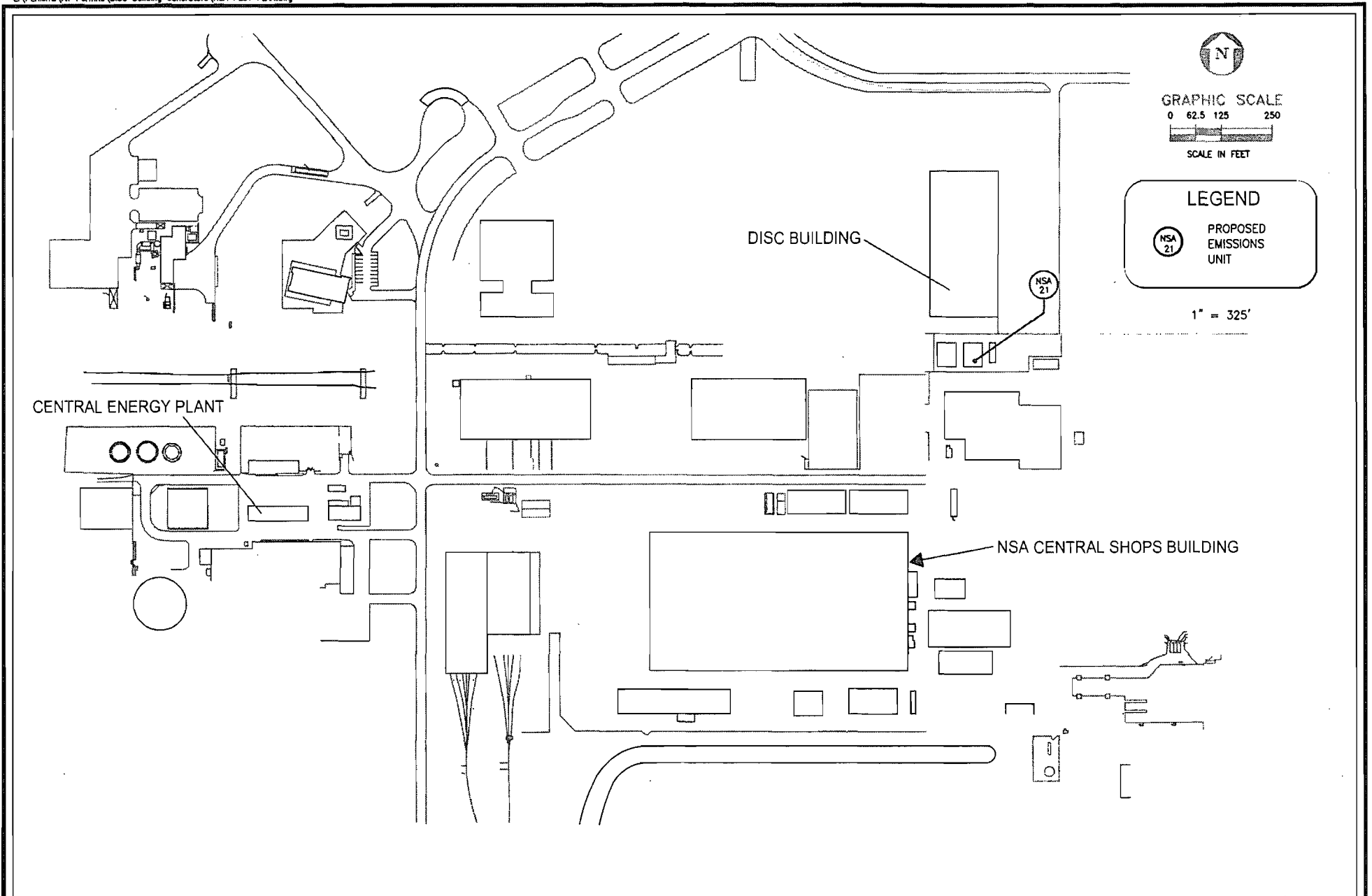


VICINITY MAP



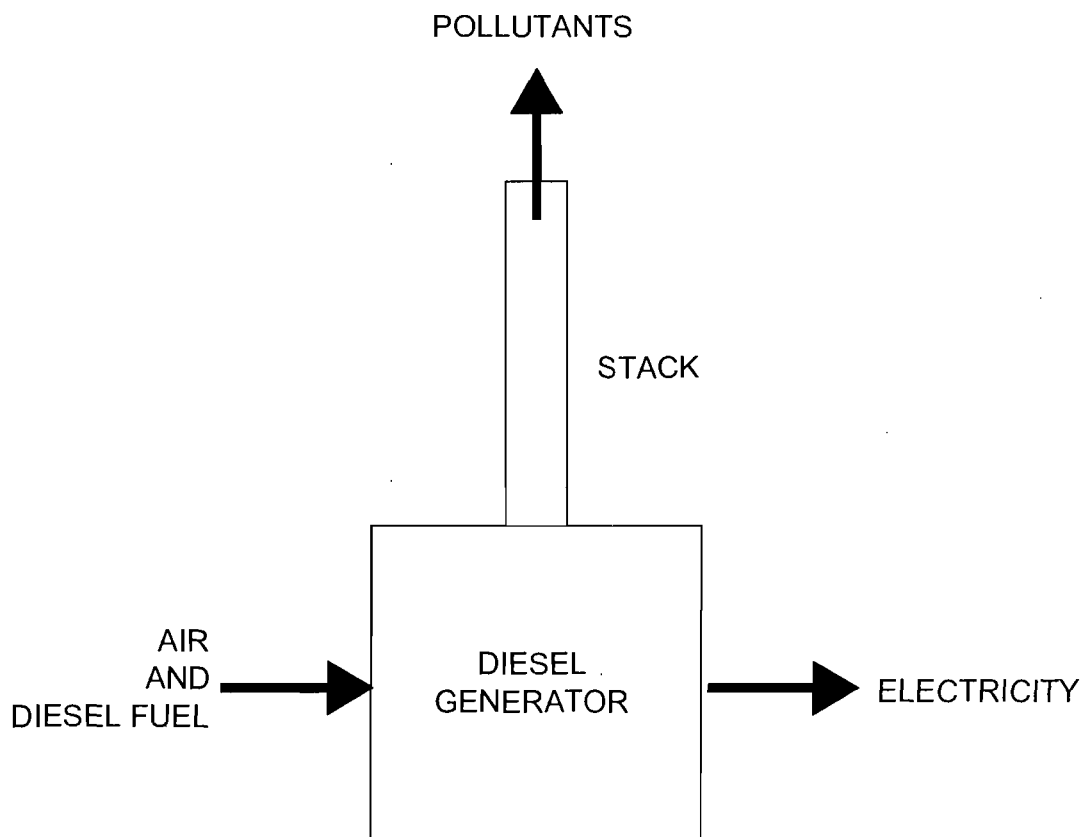
LOCATION MAP

ATTACHMENT A  
 LOCATOR MAP  
 DISC BUILDING GENERATORS



ATTACHMENT B  
FACILITY PLOT PLAN  
DISC BUILDING





ATTACHMENT C  
PROCESS FLOW DIAGRAM  
DISC BUILDING DIESEL ELECTRIC GENERATORS

**ATTACHMENT D**  
**PRECAUTIONS TO PREVENT EMISSIONS**  
**OF UNCONFINED PARTICULATE MATTER**

During operations, the following techniques will be used to prevent unconfined particulate matter emissions on an as needed basis:

- Chemical or water application to:
  - Unpaved roads.
  - Unpaved yard areas.
  - Storage piles.
- Paving and maintenance of roads, parking areas, and yards.
- Landscaping and planting of vegetation.
- Confining abrasive blasting, where possible.
- Other techniques, as necessary.

## **ATTACHMENT F**

### **RULE APPLICABILITY ANALYSIS**

This emissions unit, when operated under the fuel usage limitation of 254,000 gallons per year, is an unregulated emissions unit. There are no applicable regulations that pertain to this unit, except for the Title V core list of regulations and the General Visible Emissions standard of 20% opacity.

## **ATTACHMENT E**

### **DESCRIPTION OF PROPOSED CONSTRUCTION OR MODIFICATION:**

#### **EQUIPMENT SPECIFICATIONS AND EMISSIONS RATES**

This permit application is being submitted to reclassify three conditionally exempt existing emergency generators as unregulated emissions units. The generators are being reclassified in order to allow greater operational flexibility at the DISC Building at the Walt Disney World Resort. The DISC Building houses all computer operations for the east coast of the Walt Disney Company. Since the computer systems are critical to the company's operation, the computers need to be protected from power losses or fluctuations. An existing uninterruptible power supply (UPS) has been deemed unserviceable and will need to be replaced soon and this project is ongoing. The existing emergency generators (which are operated only if a power failure has occurred) are being reclassified through this permitting action as a backup to the existing and future UPS. Once reclassified, these units are intended to be operated if there is a potential power outage, such as during heavy thunderstorms or hurricanes, in order to minimize any power fluctuations that may occur.

This attachment includes manufacturer's specifications of the generators and manufacturer's emissions test data. This data was used to calculate the potential emissions from the units in lieu of AP-42 factors.

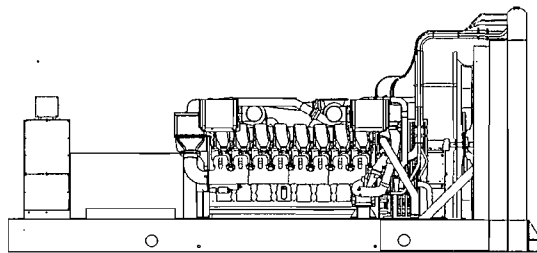


### ISO 9001

NATIONALLY REGISTERED  
DETROIT DIESEL SPECTRUM

### Ratings Range

		60 Hz	50 Hz
Standby:	kW	1480-1750	1280-1540
	kVA	1850-2188	1600-1925
Prime:	kW	1340-1590	1160-1400
	kVA	1675-1988	1450-1750



### Standard Features

- Your Detroit Diesel Spectrum® product distributor provides one-source responsibility for the generating system and accessories.
- The generator set and its components are prototype-tested, factory-built, and production-tested.
- The 60 Hz generator set offers a UL-2200 listing.
- At 60 Hz the generator set accepts rated load in one step.
- The generator set complies with ISO 8528-5, Class G3 requirements for transient performance.
- The 60 Hz generator set engine is certified by the Environmental Protection Agency (EPA).
- A one-year limited warranty covers all systems and components. Two-, five-, and ten-year extended warranties are also available.
- Generator features:
  - The brushless, rotating-field generator has broadrange reconnectability.
  - The pilot-excited, permanent-magnet generator (PMG) provides superior short-circuit capability.
- Other features:
  - Controllers are available for all applications. See controller features inside.
  - The generator set-to-skid mounting on 60 Hz models is direct mounting. The 50 Hz model mounting options include integral vibration isolation or direct mounting with spring isolators.
  - Electronic engine controls manage the engine.

### Generator Ratings

Generator	Voltage	Ph	Hz	150°C Rise Standby Rating		130°C Rise Standby Rating		125°C Rise Prime Rating		105°C Rise Prime Rating	
				kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
7M4052	220/380	3	60	1480/1850	2811	1480/1850	2811	1340/1675	2545	1340/1675	2545
	240/416	3	60	1620/2025	2810	1610/2013	2793	1470/1838	2550	1460/1825	2533
	277/480	3	60	1750/2188	2631	1750/2188	2631	1590/1988	2391	1590/1988	2391
	220/380	3	50	1480/1850	2811	1420/1775	2697	1344/1680	2552	1288/1610	2446
	230/400	3	50	1448/1810	2613	1348/1685	2432	1312/1640	2367	1224/1530	2208
7M4054	240/416	3	50	1380/1725	2394	1280/1600	2221	1256/1570	2179	1160/1450	2012
	220/380	3	60	1590/1988	3020	1590/1988	3020	1440/1800	2735	1440/1800	2735
	240/416	3	60	1750/2188	3036	1750/2188	3036	1590/1988	2758	1590/1988	2758
	277/480	3	60	1750/2188	2631	1750/2188	2631	1590/1988	2391	1590/1988	2391
	220/380	3	50	1540/1925	2925	1528/1910	2902	1400/1750	2659	1392/1740	2644
7M4058	230/400	3	50	1540/1925	2778	1540/1925	2778	1400/1750	2526	1400/1750	2526
	240/416	3	50	1540/1925	2672	1496/1870	2595	1400/1750	2429	1360/1700	2359
	220/380	3	60	1750/2188	3324	1750/2188	3324	1590/1988	3020	1590/1988	3020
	240/416	3	60	1750/2188	3036	1750/2188	3036	1590/1988	2758	1590/1988	2758
	277/480	3	60	1750/2188	2631	1750/2188	2631	1590/1988	2391	1590/1988	2391
7M4176	220/380	3	50	1540/1925	2925	1540/1925	2925	1400/1750	2659	1400/1750	2659
7M4292	230/400	3	50	1540/1925	2778	1540/1925	2778	1400/1750	2526	1400/1750	2526
	240/416	3	50	1540/1925	2672	1540/1925	2672	1400/1750	2429	1400/1750	2429
	220/380	3	60	1750/2188	3324	1750/2188	3324	1590/1988	3020	1590/1988	3020
7M4370	347/600	3	60	1750/2188	2105	1750/2188	2105	1590/1988	1912	1590/1988	1912
	2400/4160	3	60	1750/2188	304	1750/2188	304	1590/1988	276	1590/1988	276
7M4374	1905/3300	3	50	1540/1925	337	1520/1900	332	1400/1750	306	1384/1730	303
	2400/4160	3	60	1750/2188	304	1750/2188	304	1590/1988	276	1590/1988	276
	1905/3300	3	50	1540/1925	337	1540/1925	337	1400/1750	306	1400/1750	306

RATINGS: All three-phase units are rated at 0.8 power factor. **Standby Ratings:** Standby ratings apply to installations served by a reliable utility source. The standby rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. **Prime Power Ratings:** Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load, the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve. Ratings are in accordance with ISO-8528/1, overload power in accordance with ISO-3046/1, BS 5514, AS 2789, and DIN 6271. For limited running time and base load ratings, consult the factory. Obtain the technical information bulletin (TIS-101) on ratings guidelines for the complete ratings definitions. The generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever. **GENERAL GUIDELINES FOR DERATION: ALTITUDE:** Derate 1.5% per 305 m (1000 ft.) elevation above 1006 m (3300 ft.). Maximum altitude capability is 4572 m (15000 ft.) on 60 Hz and 6096 m (20000 ft.) on 50 Hz. **TEMPERATURE:** Derate 0.4% per 5.5°C (10°F) temperature above 25°C (77°F).

## Standard Features and Accessories

### Additional Standard Features

- Alternator Protection (standard with Digital 550)
- Oil Drain Extension
- Operation and Installation Literature
- Pilot-Excited, Permanent-Magnet Generator (PMG)

### Accessories

#### Enclosed Unit

- Sound Enclosure and Subbase Fuel Tank Packages
- Weather Enclosure and Subbase Fuel Tank Packages

#### Open Unit

- Exhaust Silencer, Critical  
60 Hz kits: PA-361608-SD, PA-361625-SD  
50 Hz kits: PA-361609-SD, PA-361617-SD
- Exhaust Silencer, Hospital  
60 Hz kits: PA-361610-SD, PA-361626-SD  
50 Hz kits: PA-361611-SD, PA-361626-SD
- Exhaust Silencer, Industrial  
60 Hz kits: PA-361615-SD, PA-361629-SD  
50 Hz kits: PA-361616-SD, PA-361623-SD
- Exhaust Silencer, Residential  
60 Hz kits: PA-361613-SD, PA-361628-SD  
50 Hz kits: PA-361614-SD, PA-361621-SD
- Flexible Exhaust Connector, Stainless Steel

#### Cooling System

- Block Heater
- City Water Cooling
- High Ambient Radiator
- Radiator Duct Flange
- Remote Radiator Cooling

#### Fuel System

- Flexible Fuel Lines
- Fuel Filter
- Fuel Pressure Gauge
- Subbase Fuel Tank with Day Tank

#### Electrical System

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

#### Engine and Generator

- Air Cleaner, Heavy Duty
- Air Cleaner Restriction Indicator
- Bus Bar Kits (standard on 7M generators, 380-600 volt only)
- Generator Strip Heater
- Line Circuit Breaker (NEMA type 1 enclosure)
- Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)
- NFPA 110 Literature
- Optional Generators
- Rated Power Factor Testing
- Safeguard Breaker (not available with Digital 550)
- Integral Vibration Isolation Mounting (50 Hz)
- Direct Mounting (50 Hz)
- Spring Isolators (50/60 Hz)

#### Paralleling System

- Load-Sharing Module
- Reactive Droop Compensator
- Remote Speed Adjust Potentiometer/Electronic Governor
- Voltage Adjust Potentiometer
- Voltage Regulator Relocation Kit

#### Maintenance

- General Maintenance Literature Kit
- Overhaul Literature Kit

#### Controller

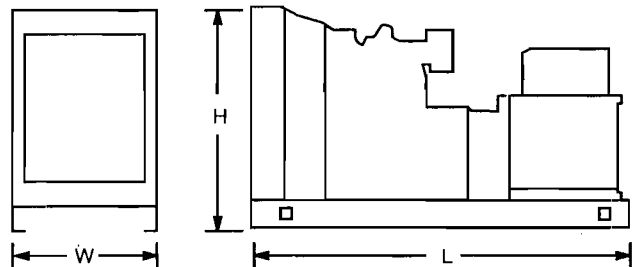
- Common Failure Relay Kit
- Communication Products and PC Software (Digital 550 controller only)
- Customer Connection Kit
- Dry Contact Kit (isolated alarm)
- Engine Prealarm Sender Kit
- Prime Power Switch
- Remote Annunciator Panel
- Remote Audiovisual Alarm Panel
- Remote Emergency Stop Kit
- Remote Mounting Cable
- Run Relay Kit

#### Miscellaneous Accessories

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

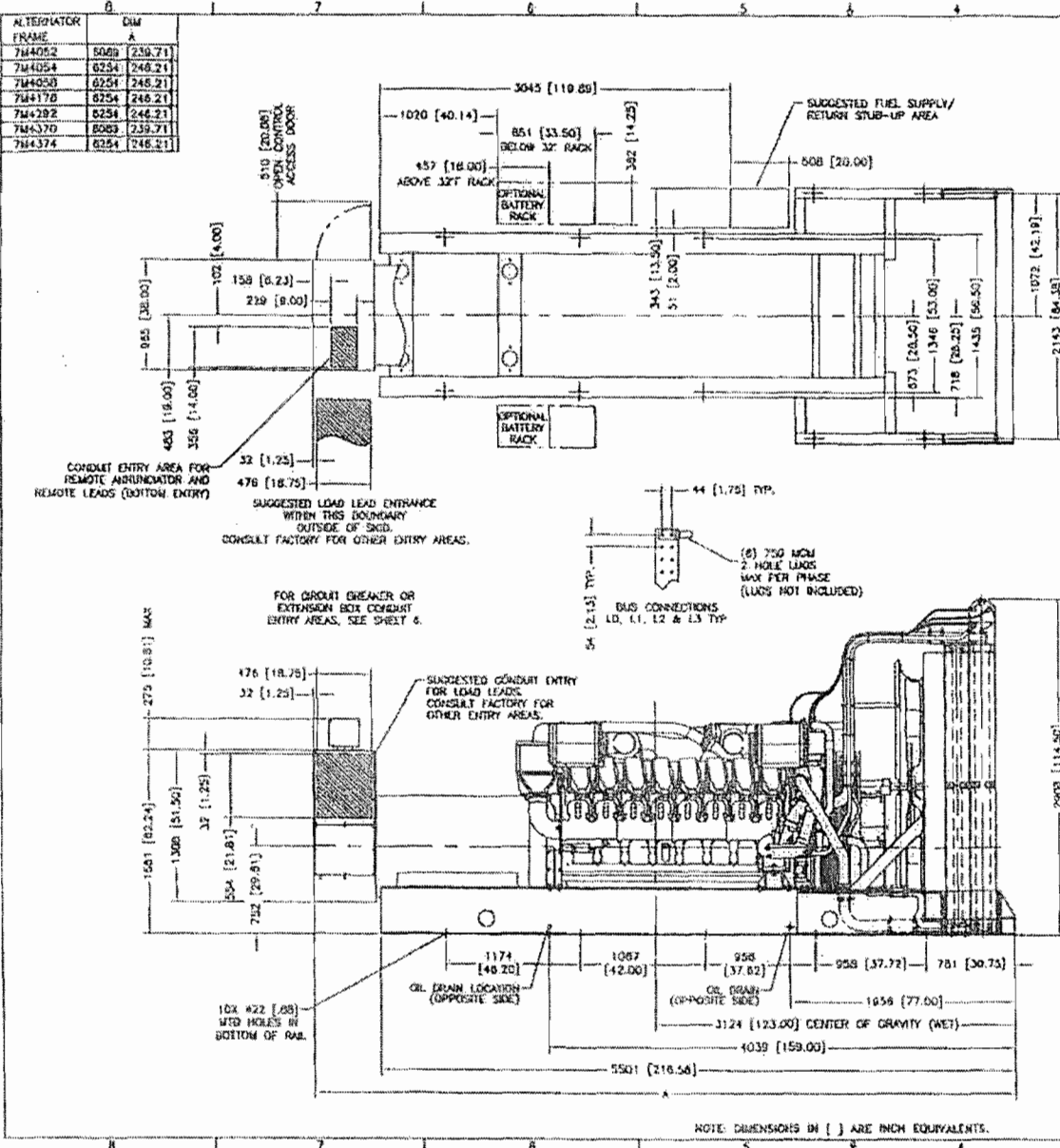
### Dimensions and Weights

Overall Size, L x W x H, mm (in.): 6254 x 2232 x 2513  
(246.21 x 87.88 x 98.94)  
Weight (radiator model), wet, kg (lb.): 15649 (34500)



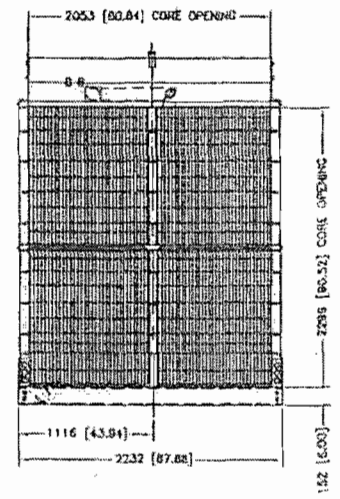
NOTE: This drawing is provided for reference only and should not be used for planning installation. Contact your local distributor for more detailed information.

**DISTRIBUTED BY:**



ALTERNATOR FRAME	QW	QW
7M4052	5009	239.71
7M4054	6254	248.21
7M4058	6251	248.21
7M4170	6254	248.21
7M4292	6254	244.21
7M4370	6083	239.71
7M4374	6254	248.21

REV	DATE	DESCRIPTION	BY
1	01-10-00	ISSUE FOR CONSTRUCTION	...
2	01-10-00	...	...
3	01-10-00	...	...
4	01-10-00	...	...
5	01-10-00	...	...
6	01-10-00	...	...
7	01-10-00	...	...
8	01-10-00	...	...
9	01-10-00	...	...
10	01-10-00	...	...



METRIC CAD FILE

NOTE:  
 MAXIMUM WET WEIGHT OF GENSET  
 LESS ACCESSORIES:  
 15,649 KG [34,500 LBS]

1750 RW  
 18V 4000 SERIES GDC

ADV-8591-S

1

# Alternator Specifications

Specifications	Generator
Type	4-Pole, Rotating Field
Exciter type	Brushless, Permanent-Magnet Pilot Exciter
Voltage regulator	Solid State, Volts/Hz
Insulation:	NEMA MG1
Material .....	Class H, Synthetic, Nonhygroscopic
Temperature rise .....	130°C, 150°C Standby
Bearing: quantity, type	1, Sealed
Coupling	Flexible Disc
Amortisseur windings	Full
Rotor balancing	125% 60 Hz, 150% 50 Hz
Voltage regulation, no-load to full-load (with <0.5% drift due to temp. variation)	3-phase sensing, ±0.25%
Unbalanced load capability	100% of Rated Standby Current
One-step load acceptance at 60 Hz	100% of Rating
Peak motor starting kVA:	(35% dip for voltages below)
480 V, 416 V	7M4052 (4 bus bar) 5500 (60 Hz), 4700 (50 Hz)
480 V, 416 V	7M4054 (4 bus bar) 7000 (60 Hz), 6600 (50 Hz)
480 V, 416 V	7M4058 (4 bus bar) 12500 (60 Hz), 8200 (50 Hz)
380 V	7M4176 (4 bus bar) 5400 (60 Hz)
600 V	7M4292 (4 bus bar) 4200 (60 Hz)
4160 V, 3300 V	7M4370 (6 lead) 5500 (60 Hz), 3000 (50 Hz)
4160 V, 3300 V	7M4374 (6 lead) 6200 (60 Hz), 3750 (50 Hz)

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

## Application Data

### Engine

Engine Specifications	60 Hz	50 Hz
Manufacturer	Detroit Diesel/MTU	
Engine: model	16V4000 (T163-7K36)	16V4000 (T163-7K16)
Engine: type	4-Cycle, Turbocharged, Intercooled	
Cylinder arrangement	16V	
Displacement, L (cu. in.)	65 (3967)	
Bore and stroke, mm (in.)	165 (6.5) x 190 (7.5)	
Compression ratio	13.7:1	
Piston speed, m/min. (ft./min.)	684 (2244)	570 (1870)
Main bearings: quantity, type	—	
Rated rpm	1800	1500
Max. power at rated rpm, kWm (BHP)	1900 (2550)	1686 (2260)
Cylinder head material	Cast Iron	
Crankshaft material	Forged Steel	
Valve (exhaust) material	High Alloy Steel	
Governor: type, make/model	DDEC Electronic Control	
Frequency regulation, no-load to full-load	Isochronous	
Frequency regulation, steady state	±0.25%	
Frequency	Fixed	
Air cleaner type, all models	Dry	

### Exhaust

Exhaust System	60 Hz	50 Hz
Exhaust flow at rated kW, m <sup>3</sup> /min. (cfm)	413 (14590)	325 (11520)
Exhaust temperature at rated kW, dry exhaust, °C (°F)	407 (765)	507 (945)
Maximum allowable back pressure, kPa (in. Hg)	5.1 (1.5)	
Exhaust outlet size at engine hookup, mm (in.)	2 @ 254 (10)	

### Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Battery charging alternator:		
Ground (negative/positive) .....		Negative
Volts (DC) .....		24
Ampere rating .....		70
Starter motor rated voltage (DC)		Dual, 24
Battery, recommended cold cranking amps (CCA):		
Qty., CCA rating above 0°C (32°F)		4, 950
Qty., CCA rating below 0°C (32°F)		8, 1250
Battery voltage (DC)		12

### Fuel

Fuel System	60 Hz	50 Hz
Fuel supply line, min. ID, mm (in.)		25 (1.0)
Fuel return line, min. ID, mm (in.)		19 (0.75)
Max. lift, engine-driven fuel pump, m (ft.)		—
Max. fuel flow, Lph (gph)	1045 (276)	1068 (283)
Max. fuel pump restriction with new/used filter, kPa (in. Hg)		20 (6)/41 (12)
Fuel filter		2, Secondary
Recommended fuel		#2 Diesel

### Lubrication

Lubricating System	60 Hz	50 Hz
Type		Full Pressure
Oil pan capacity, L (qt.)		230 (243)
Oil pan capacity with filter, L (qt.)		250 (264)
Oil filter: quantity, type		4, Spin-On
Oil cooler		Water-Cooled



# Application Data

## Cooling Systems

Radiator System	60 Hz	50 Hz
Ambient temp., standby rating, °C (°F)	45 (113)	—
Ambient temp., prime rating, °C (°F)	45 (113)	50 (122)
Engine water capacity, L (gal.)	208 (55)	—
Radiator system capacity, including engine, L (gal.)	613 (162)	—
Engine jacket water flow, Lpm (gpm)	1669 (441)	1420 (375)
Charge cooler water flow, Lpm (gpm)	647 (171)	606 (160)
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	610 (34680)	588 (33448)
Heat rejected to charge cooling water at rated kW, dry exhaust, and at innercooler coolant inlet temperature <57°C (135°F), kW (Btu/min.)	538 (30600)	342 (19436)
Water pump type	Centrifugal	—
Fan diameter, including blades, mm (in.)	1829 (72)	—
Fan, kWm (HP)	60 (81)	49 (66)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)	—

High Ambient Radiator System	60 Hz	50 Hz
Ambient temp., standby rating, °C (°F)	50 (122)	—
Engine water capacity, L (gal.)	208 (55)	—
Radiator system capacity, including engine, L (gal.)	780 (206)	—
Engine jacket water flow, Lpm (gpm)	1669 (441)	—
Charge cooler water flow, Lpm (gpm)	647 (171)	—
Heat rejected to cooling water at rated kW, dry exhaust, kW (Btu/min.)	610 (34680)	—
Heat rejected to charge cooling water at rated kW, dry exhaust, and at innercooler coolant inlet temperature <57°C (135°F), kW (Btu/min.)	538 (30600)	—
Water pump type	Centrifugal	—
Fan diameter, including blades, mm (in.)	2362 (93)	—
Fan, kWm (HP)	66 (88)	—
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H <sub>2</sub> O)	0.125 (0.5)	—

Remote Radiator System*	60 Hz	50 Hz
Exhaust manifold type	Dry	
Connection sizes:	Class 150 ANSI Flange	
Water inlet, mm (in.) . . . . .	191 (7.5) Bolt Circle	—
Water outlet, mm (in.) . . . . .	191 (7.5) Bolt Circle	—
Intercooler inlet/outlet, mm (in.) . .	152 (6.0) Bolt Circle	—
Static head allowable above engine, kPa (ft. H <sub>2</sub> O)	149 (50)	—

City Water Cooling (CWC) System	60 Hz	50 Hz
Exhaust manifold type	Dry	
Connection sizes:	—	
Water inlet, mm (in.) . . . . .	*	—
Water outlet, mm (in.) . . . . .	*	—

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

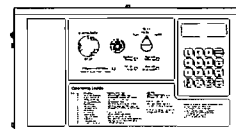
## Operation Requirements

Air Requirements	60 Hz	50 Hz
Radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)†	1866 (65900)	1838 (64900)
High ambient radiator-cooled cooling air, m <sup>3</sup> /min. (scfm)†	3118 (110000)	—
Cooling air required for gen. set when equipped with CWC or remote radiator, based on 14°C (25°F) rise and ambient temp. of 29°C (85°F), m <sup>3</sup> /min. (cfm)	552 (19500)	499 (17700)
Combustion air, m <sup>3</sup> /min. (cfm)	176 (6225)	125 (4414)
Heat rejected to ambient air:		
Engine, kW (Btu/min.) . . . . .	67 (3825)	60 (3390)
Generator, kW (Btu/min.) . . . . .	82 (4691)	76 (4320)

† Air density = 1.20 kg/m<sup>3</sup> (0.075 lbm/ft<sup>3</sup>)

Fuel Consumption	60 Hz	50 Hz
<b>Diesel, Lph (gph) at % load</b>	<b>Standby Rating</b>	
100%	433.2(114.4)	385.0(101.7)
75%	329.3 (87.0)	291.1 (76.9)
50%	229.4 (60.6)	198.7 (52.5)
25%	127.2 (33.6)	108.6 (28.7)
<b>Diesel, Lph (gph) at % load</b>	<b>Prime Rating</b>	
100%	394.4(104.2)	350.9 (92.7)
75%	302.8 (80.0)	265.7 (70.2)
50%	211.2 (55.8)	182.5 (48.2)
25%	118.5 (31.3)	100.3 (26.5)

## Available Controllers



**Digital 550 Controller**  
 Audiovisual annunciation with NFPA 110 Level 1 capability. Programmable microprocessor logic and digital display features. Safeguard circuit protection standard. 12- or 24-volt engine electrical system capability. Remote start, remote annunciation, and remote communication options. Refer to M6-46 for additional controller features and accessories.

**Microprocessor-Plus, 16-Light Controller**  
 Audiovisual annunciation with NFPA 110 Level 1 capability. Microprocessor logic, AC meters, and engine gauge features. 12- or 24-volt engine electrical system capability. Remote start, prime power, and remote annunciation options. Refer to M6-30 for additional controller features and accessories.



Gen Set  
16V4000 - T1637K36

Emission Data  
06N04M1341

Standby Power Limit: 2550 bhp @ 1800 r/min

**Summary**

Rated Engine Speed, r/min	1800
Certification Code (CWC)	5409
US Nonroad Certification	Yes
EURO Nonroad (Stage 1) Certification	No
TA LUFT Compliance	No
IMO MARPOL 73/78 Annex VI Compliance	
Comments	

Test Conditions:  
Inquiries should be sent to: [George.Polson@Detroitdiesel.com](mailto:George.Polson@Detroitdiesel.com)

**D2-Cycle Emissions**

	Engine Load (g/hr)					Total (g/bhp-hr)
	10%	25%	50%	75%	100%	
NO <sub>x</sub>	1,625	3,705	7,985	12,240	15,715	
CO	2,760	2,105	1,180	687	872	
HC	1,410	1,260	1,030	1,005	852	
SO <sub>2</sub> - with .5% sulfur content fuel	282	542	977	1,405	1,845	--
SO <sub>2</sub> - with .05% sulfur content fuel	28.2	54.2	97.7	140	184	--
Particulates	177	186	209	205	228	

**Smoke Summary, Bosch No.**

Smoke

Inquiries for certification information should be sent to: [Joanna.Vardas@Detroitdiesel.com](mailto:Joanna.Vardas@Detroitdiesel.com)  
Inquiries for emission data should be sent to: [Gerd.Stoll@Detroitdiesel.com](mailto:Gerd.Stoll@Detroitdiesel.com)

**UNCONTROLLED COPY**  
Date Last Updated: 7/20/2000

Printed on:  
11/12/2003

**The user is advised to check the PowerEvolution Network for latest information.**  
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## ATTACHMENT E EMISSIONS CALCULATIONS

Fuel Heat Value, mmBtu/gal  
Annual Fuel Usage, gal

0.138  
254000 (this is the maximum amount of fuel that can be burned to stay below 40 tpy of NOx)

Max Emissions	Emissions, lb/gal	Emissions, lb/hr	Emissions, lb/MMBtu	Annual Emissions, tons
NOx	0.3099	34.61	2.25	39.3559
CO	0.1380	4.64	1.00	17.5251
SO2	0.0356	4.064	0.2578	4.5176
PM	0.0122	0.50	0.0884	1.5485
HC	0.0826	2.78	0.60	10.4901

### Section I Emissions rates

The following data was provided by the manufacturer:

Emissions Factor, g/hr	Engine Load				
	10%	25%	50%	75%	100%
NOx	1625	3705	7985	12240	15715
CO	2760	2105	1180	687	872
SO2- .5% S	282	542	977	1405	1845
SO2- .05% S	28.2	54.2	97.7	140.5	184.5
PM	177	186	209	205	228
HC	1410	1260	1030	1005	852
Fuel Usage (gph)		33.6	60.6	87.0	114.4

This is the conversion to lb/hr from the manufacturer's data:

Emissions Factor, lb/hr	25%	50%	75%	100%
NOx	8.161	17.588	26.960	34.615
CO	4.637	2.599	1.513	1.921
SO2- .5% S	1.194	2.152	3.095	4.064
SO2- .05% S	0.119	0.215	0.309	0.406
PM	0.410	0.460	0.452	0.502
HC	2.775	2.269	2.214	1.877

This is the conversion to lb/MMBtu from the manufacturer's data:

Emissions Factor, lb/MMBtu	25%	50%	75%	100%
NOx	1.760	2.103	2.246	2.193
CO	1.000	0.311	0.126	0.122
SO2- .5% S	0.257	0.257	0.258	0.257
SO2- .05% S	0.026	0.026	0.026	0.026
PM	0.088	0.055	0.038	0.032
HC	0.599	0.271	0.184	0.119

### Section II Annual Emissions Calculations at Varying Engine Loads

Sample calculation for NOx at 25% load:

$1.76 \text{ lb NOx/MMBtu} \times 0.138 \text{ MMBtu/gal} = 0.2429 \text{ lb NOx/gal}$

$0.2429 \text{ lb NOx/gal} \times 254,000 \text{ gallons/yr} = 61,691 \text{ lb NOx/yr}$

$61,691 \text{ lb NOx/yr} \div 2000 \text{ lb/ton} = 30.85 \text{ tons NOx/yr}$

Fuel input, gph @ 25%			33.6	
Emissions Factor, lb/MMBtu	Emissions, lb/gal	Annual Emissions, tons		
NOx	1.76	0.2429	30.85	
CO	1.00	0.1380	17.53	<---Maximum annual CO emissions
SO2	0.26	0.0355	4.51	<---Maximum annual SO2 emissions
PM	0.09	0.0122	1.55	<---Maximum annual PM emissions
HC	0.60	0.0826	10.49	<---Maximum annual HC emissions
Annual Fuel Usage, gal			254000	
Annual Operating Hours			7560	

## ATTACHMENT E EMISSIONS CALCULATIONS

Fuel input, gph @ 50%			60.6
Emissions Factor, lb/MMBtu		Emissions, lb/gal	Annual Emissions, tons
NOx	2.10	0.290	36.86
CO	0.31	0.043	5.45
SO2	0.26	0.036	4.51
PM	0.06	0.008	0.96
HC	0.27	0.037	4.75
Annual Fuel Usage, gal			254000
Annual Operating Hours			4191

Fuel input, gph @ 75%			87.0
Emissions Factor, lb/MMBtu		Emissions, lb/gal	Annual Emissions, tons
NOx	2.25	0.310	39.36
CO	0.13	0.017	2.21
SO2	0.26	0.036	4.52
PM	0.04	0.005	0.66
HC	0.18	0.025	3.23
Annual Fuel Usage, gal			254000
Annual Operating Hours			2920

<---Maximum annual NOx emissions

Fuel input, gph @ 100%			114.4
Emissions Factor, lb/MMBtu		Emissions, lb/gal	Annual Emissions, tons
NOx	2.19	0.303	38.43
CO	0.12	0.017	2.13
SO2	0.26	0.036	4.51
PM	0.03	0.004	0.56
HC	0.12	0.016	2.08
Annual Fuel Usage, gal			254000
Annual Operating Hours			2220

## **ATTACHMENT F**

### **RULE APPLICABILITY ANALYSIS**

This emissions unit, when operated under the fuel usage limitation of 254,000 gallons per year, is an unregulated emissions unit. There are no applicable regulations that pertain to this unit, except for the Title V core list of regulations and the General Visible Emissions standard of 20% opacity.

In addition, a MACT rule applicability analysis was performed to determine if the proposed RICE MACT is applicable to this emissions unit. The proposed rule was published in the Federal Register on December 22, 2002. The proposed rule states that existing compression ignition internal combustion engines are not subject to any specific requirements under the proposed rule. The contract for the construction of this emission unit was signed on November 26, 2002, so it is an existing unit, and not subject to the proposed rule. In a discussion with Cindy Phillips in December 2003, it was confirmed that it is considered an existing unit relative to the proposed MACT rule.



MARATHON ASHLAND PETROLEUM LLC

Louisiana Refining Division  
Laboratory

P. O. Box AC Garyville, La 70051 (504) 535-2241

No. 2 Diesel Fuel Oil  
Certificate of Analysis #

LIMS Identification Number: AF72718 <http://webmail.cfl.tr.com/index.cgi>  
 Tank or Vessel Sampled: TK 300-1  
 Sampled by: MAP  
 Date/Time Sampled: 5/22/02 2115

MARATHON ASHLAND LABORATORY DATA

PARAMETER	ASTM TEST METHOD	SPECIFICATIONS			TEST RESULTS
		HSD SOUTHEAST	HSD MIDWEST	LSD	
Product Sold As:				X	
API Gravity @ 60 °F	D-4052	30 min.	30 min.	30 min.	32.8
Sulfur, wt %	D-4294	0.50 max.	0.50 max.	0.05 max.	0.0340
Flash, FMCC °F	D93-A	140 min.	125 min.	140 min.	149
Color	D-1500	2.5 max.	3.5 max.	2.5 max.	<2.0
Colonial Haze Rating, max. @ 77 °F		2 max.	2 max.	2 max.	1
Viscosity, cSt @ 40 °C (104 °F)	D-445	1.9 min./3.4 max.	1.8 min./4.1 max.	1.9 min./3.4 max.	2.77
Carbon Residue on 10% Bottoms	D-524	0.35	0.35	0.35	0.15
Corrosion	D-130	No. 1 max.	No. 1 max.	No 1 max.	1A
Ash, wt. %	D-482	0.01 max.	0.02 typical	0.01 max.	<0.001
Cetane Index	D-976	40 min.	40 min.	40 min.	45.2
Cloud Point, °F	D-5773			Midwest Southeast	
Winter (8/1 - 2/28)		+14 max.	+15 max.	+10 max. +14 max.	
Summer (3/1 - 7/31)		+20 max.	+20 max.	+20 max. +20 max.	9.5
Pour Point, °F	D-5949			Midwest Southeast	
Winter (8/1 - 2/28)		0 max.	-15 max.	-15 max. 0 max.	
Summer (3/1 - 7/31)		+10 max.	+10 max.	+10 max. +10 max.	-4
Distillation, °F	D-86				
90% Recovered		540 min./640 max.	540 min./640 max.	540 min./640 max.	616
Endpoint		690 max.		690 max.	651
Red Dye Content, mg/L					
Pipeline		1.5 min./ 2.5 max.	1.5 min./2.5 max.		
Terminal		11.9 min.	11.9		
Thermal Stability, Pad No.	Dupont F21-61	5 max.	5 max.	5 max.	2
Conductivity, picosiemems @ 20 °F	D-2624	50 min.	50 min.	50 min.	115

This COA was prepared from analysis performed on a sample of product from the above specified tank, obtained at the specified date and time.

Exceptions:

Marathon Ashland Petroleum Final Approval:

*Nicci Ruble*

Date: 5/24/02

ATTACHMENT G  
FUEL ANALYSIS