RECEIVED

MAR 3 1 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 3 1 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 Disa	ney World Co.
2. Site Name: Walt Disney World Resort Cor	nplex
3. Facility Identification Number: 0950111	
4. Facility Location Walt Disney World At	
Street Address or Other Locator: 1375 Bue	na Vista Dr.
City: Lake Buena Vista County:	Orange (48) Zip Code: 32830-1000
5. Relocatable Facility?	6. Existing Title V Permitted Facility?
☐ Yes ☐x No	x Yes No
Application Contact	
1. Application Contact Name: Richard A. Bu	nmar, Jr., P.E.
2. Application Contact Mailing Address	
Organization/Firm: Walt Disney World Co	0.
Street Address: P.O. Box 10,000	
City: Lake Buena Vista S	tate: 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.l	oumar@disney.com
Application Processing Information (DEP L	Use)
1. Date of Receipt of Application:	3-31-04
2. Project Number(s):	3-31-04 1950111-022AC

DEP Form No. 62-210.900(1) - Form

3. PSD Number (if applicable): 4. Siting Number (if applicable):

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 contruction permit for three diesel generators. The generators were intitially installed in November 2002 to operate only as conditionally emempt emergency generators. This application is being submitted to reclassify the generators as unregulated emissions units to allow operational flexibility.

DEP Form No. 62-210.900(1) - Form Effective: 06/16/03

Scope of Application

Emissions Unit ID Number	Description of Emissions Unit	Air Permit Type	Air Permit Proc. Fee
New	3 DISC BUILDING STANDBY DIESEL ELECTRIC GENERATORS	ACID	\$0.00
		:	

Application Processing Fee	
Check one: Attached - Amount: \$	

3

DEP Form No. 62-210.900(1) - Form Effective: 06/16/03

Owner/Authorized Representative Statement

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

1. Owner/Authorized Representative Name:

Lee Schmudde

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, 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 any permitted emissions unit.

Signature

Date

3/15/07

DEP Form No. 62-210.900(1) - Form

Pr	ofessional 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, the undersigned, hereby certify, except as particularly noted herein*, that:
	(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
	(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.
	(3) If the purpose of this application is to obtain a Title V air operation permit (check here, 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.
	(4) If the purpose of this application is to obtain an air construction permit (check here x , 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 x , 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.
	(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, 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.
	Signature Date

* Attach any exception to certification statement.

DEP Form No. 62-210.900(1) - Form Effective: 06/16/03

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 4. Facility Status Facility Code: 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 Respons	ible Offici	al Name:			
2.	Facility Primary Respons Organization/Firm:	ible Offici	al Mailing	Address		
	Street Address:					
	City:		State	:	Zip Code:	
3.	Facility Primary Respons	ible Offici	al Telepho	ne Numbers		
	Telephone: () -	ext.	Fax: ()	· -		
4.	Facility Primary Respons	ible Offici	al Email A	ddress:		

DEP Form No. 62-210.900(1) - Form

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

7

List of Pollutants Emitted by Facility

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

8

B. EMISSIONS CAPS

Facility-Wide or Multi-Unit Emissions Caps

		Emissions Caps		T	
1. Pollutant	2. Facility	3. Emissions	4. Hourly	5. Annual	6. Basis for
Subject to	Wide	Unit ID No.s	Cap	Cap	Emissions
Emissions	Cap	Under Cap	(lb/hr)	(ton/yr)	Cap
Cap	[Y or N]?	(if not all			
	(all units)	units)			
None		, , , , , , , , , , , , , , , , , , ,			
None				<u> </u>	
				ļ	
]			<u></u>	
-			 		
			<u> </u>		
					ļ
-		-			<u> </u>
	_			<u> </u>	<u> </u>
7. Facility-W	ide or Multi-Un	it Emissions Cap C	Comment:	-	
N/A		1			
;					

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) X Attached, Document ID: Attachment A 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) X Attached, Document ID: Attachment B 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) Attached, Document ID: Attachment C Previously Submitted, Date:
<u>A</u> (dditional Requirements for Air Construction Permit Applications
	Area Map Showing Facility Location:
2.	Description of Proposed Construction or Modification:
3.	Rule Applicability Analysis:
4.	List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): Attached, Document ID: Not Applicable (no exempt units at facility)
	Fugitive Emissions Identification (Rule 62-212.400(2), F.A.C.): Attached, Document ID: Not Applicable
6.	Preconstruction Air Quality Monitoring and Analysis (Rule 62-212.400(5)(f), F.A.C.): Attached, Document ID: Not Applicable
7.	Ambient Impact Analysis (Rule 62-212.400(5)(d), F.A.C.): Attached, Document ID: Not Applicable
8.	Attached, Document ID: Not Applicable
9.	Additional Impact Analyses (Rules 62-212.400(5)(e)1. and 62-212.500(4)(e), F.A.C.): Attached, Document ID: Not Applicable
10	D. Alternative Analysis Requirement (Rule 62-212.500(4)(g), F.A.C.): Attached, Document ID: Not Applicable

DEP Form No. 62-210.900(1) - Form

Additional Requirements for FESOP Applications 1. List of Exempt Emissions Units (Rule 62-210.300(3)(a) or (b)1., F.A.C.): Not Applicable (no exempt units at facility) Attached, Document ID: Additional Requirements for Title V Air Operation Permit Applications 1. List of Insignificant Activities (Required for initial/renewal applications only): Not Applicable (revision application) Attached, Document ID: 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): Attached, Document ID:____ Not Applicable (revision application with no change in applicable requirements) 3. Compliance Report and Plan (Required for all initial/revision/renewal applications): Attached, Document ID: 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): Attached, Document ID: Equipment/Activities On site but Not Required to be Individually Listed Not Applicable 5. Verification of Risk Management Plan Submission to EPA (If applicable, required for initial/renewal applications only): Not Applicable Attached, Document ID:_____ 6. Requested Changes to Current Title V Air Operation Permit: Attached, Document ID: Not Applicable 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.

DEP Form No. 62-210.900(1) - Form

EMISSIONS UNIT INFORMATION [1]

ofSection [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.

DEP Form No. 62-210.900(1) - Form

EMISSIONS UNIT INFORMATION

Section [1]

of [1]

A. GENERAL EMISSIONS UNIT INFORMATION

Title V Air Operation Permit Emissions Unit Classification

I.	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.)				
	The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.				
		l emissions unit.	in this Emissic	ons Unit Information S	ection is an
<u>En</u>	nissions Unit	Description and Sta	<u>ıtus</u>		
1.	Type of Emis	ssions Unit Addresse	d in this Section	on: (Check one)	
				dresses, as a single em	
		r production unit, or s at least one definab		n produces one or more	e air pollutants and
			-		issions unit, a group of
	process o	r production units an	d activities wh	nich has at least one de	finable emission point
	`	vent) but may also p	ŭ		!
	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 U	nit Identification Nur	mber: No corr	esponding ID exists	
<u> </u>	Emissions	5. Commence	6. Initial	7. Emissions Unit	8. Acid Rain Unit?
	Unit Status	Construction	Startup	Major Group	☐ Yes
	Code: A	Date:	Date:	SIC Code:	X No
		11/26/2002		7996	
9.	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					
ge	nerators				
!					

13

DEP Form No. 62-210.900(1) - Form

Emissions Unit Control Equipment

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

B. EMISSIONS UNIT CAPACITY INFORMATION

(Optional for unregulated emissions units.)

Emissions Unit Operating Capacity and Schedule

1. Maximum Process or Throughput Rate: 25	54,000 gallons per year	
2. Maximum Production Rate: N/A		
3. Maximum Heat Input Rate: 47.362 million	n Btu/hr	
4. Maximum Incineration Rate: N/A pounds/	/hr	
N/A tons/day	y	
5. Requested Maximum Operating Schedule: 24 hours/		
52 weeks	s/year 8760 hours/year	

DEP Form No. 62-210.900(1) - Form

C. EMISSION POINT (STACK/VENT) INFORMATION (Optional for unregulated emissions units.)

Emission Point Description and Type

Identification of Point on Flow Diagram: NSA-21	Plot Plan or	2. Emission Point 3	Type Code:	
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:	6. Stack Height feet 15	:	7. Exit Diameter: feet 1.2	
8. Exit Temperature: 831 °F	9. Actual Volume acfm 14000	metric Flow Rate: 10. Water Vapor: N/A%		
11. Maximum Dry Standard F dscfm N/A	Flow Rate:	12. Nonstack Emission Point Height: feet N/A		
13. Emission Point UTM Coo 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.				

DEP Form No. 62-210.900(1) - Form

D. SEGMENT (PROCESS/FUEL) INFORMATION

Segment Description and Rate: Segment 1 of 1

Segment Description (Process/Fuel Type): Description discal feel in a discal electric generator.					
Durning dieser ruer in a dieser	Burning diesel fuel in a diesel electric generator				
2. Source Classification Code	e (SCC):	3. SCC Units			
20200401	- ()	1000 gallons burned			
4. Maximum Hourly Rate: 0.3432	5. Maximum 254	Annual Rate:	6. Estimated Annual Activity Factor: N/A		
7. Maximum % Sulfur: 0.1	8. Maximum N/A	% Ash:	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 Ra	ite: Segment	of			
1. Segment Description (Prod	1. Segment Description (Process/Fuel Type):				
2 Saura Classification Cod	- (CCC).	2 SCC Units			
2. Source Classification Code	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:					

DEP Form No. 62-210.900(1) - Form

E. EMISSIONS UNIT POLLUTANTS

List of Pollutants Emitted by Emissions Unit

1. Pollutant Emitted	2. Primary Control	3. Secondary Control	4. Pollutant
	Device Code	Device Code	Regulatory Code
NOx	N/A	N/A	NS
CO	N/A	N/A	NS
SO2	N/A	N/A	NS
Hydrocarbons	N/A	N/A	NS
PM/PM10	N/A	N/A	NS
		-	

POLLUTANT DETAIL INFORMATION Page [1] of [10]

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:	2. Total Percent Efficiency of Control:		
NOx	0.0		
3. Potential Emissions:	4. Synthetically Limited?		
103.8 lb/hour 39.4	4 tons/year		
5. Range of Estimated Fugitive Emissions (as	applicable): N/A		
to tons/year			
6. Emission Factor: 2.246 lb/MMBtu	7. Emissions		
	Method Code:		
Reference: Manufacturer provided emissions d	ata 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			

POLLUTANT DETAIL INFORMATION Page [2] of [10]

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	_ 01
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	on of Operating Method):
Not applicable-this pollutant is not emission	ns limited
Allowable Emissions Allowable Emissions _	
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	on of Operating Method):
Allowable Emissions Allowable Emissions	_ of
Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable
	Emissions:
3. Allowable Emissions and Units:	4. Equivalent Allowable Emissions:
3. The waste Emissions and Since.	lb/hour tons/year
5. Method of Compliance:	
3. Wethod of compilation.	
6. Allowable Emissions Comment (Description	on of Operating Method):

20

DEP Form No. 62-210.900(1) - Form

POLLUTANT DETAIL INFORMATION Page [3] of [10]

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.

Pollutant Emitted: CO	2. Total Percent Efficien 0.0	ncy of Control:
3. Potential Emissions: 13.91 lb/hour 17.55	4. Synthe x Ye	etically Limited?
5. Range of Estimated Fugitive Emissions (as to tons/year	applicable): N/A	
6. Emission Factor: 1.00 lb/MMBtu Reference: Manufacturer provided emissions d		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 Emis N/A	ssions Comment:	

21

POLLUTANT DETAIL INFORMATION Page [4] of [10]

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.

<u>AI</u>	iowable Emissions Allowable Emissions	01			
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.	6. Allowable Emissions Comment (Description of Operating Method): Not applicable-this pollutant is not emissions limited				
Al	lowable 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				
	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):			

DEP Form No. 62-210.900(1) - Form

POLLUTANT DETAIL INFORMATION Page [5] of [10]

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:	2. Total Percent Efficient	ency of Control:		
SO2	0.0			
3. Potential Emissions:	4. Synth	hetically Limited?		
12.19 lb/hour 4.5.	2 tons/year x Y	les □ No		
5. Range of Estimated Fugitive Emissions (as	applicable): N/A			
to tons/year				
6. Emission Factor: 0.2578 lb/MMbtu		7. Emissions		
		Method Code:		
Reference: Manufacturer provided emissions d	ata	5		
8. Calculation of Emissions:				
	**************************************	1001		
0.2578 lb/MMBtu x 254,000 gallons/yr x 0.138	MMBtu/gal = 9,036 lb S	3O2/yr		
9,036 lb/yr x 1 ton/2000 lb = 4.52 tons SO2/yr				
9. Pollutant Potential/Estimated Fugitive Emissions Comment:				
N/A				

POLLUTANT DETAIL INFORMATION Page [6] of [10]

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 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 _	_ of			
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 of				
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):				

DEP Form No. 62-210.900(1) - Form

POLLUTANT DETAIL INFORMATION Page [7] of [10]

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:	2. Total Percent Efficie	ncy of Control:
Hydrocarbons/VOC	0.0	
3. Potential Emissions:	4. Synth	etically Limited?
8.34 lb/hour 10.	5 tons/year x Y	es 🔲 No
5. Range of Estimated Fugitive Emissions (as	applicable): N/A	
to tons/year		
6. Emission Factor: 0.6 lb/MMBtu		7. Emissions
		Method Code:
Reference: Manufacturer provided emissions d	ata	5
8. Calculation of Emissions:		
0.6 lb/MMBtu x 254,000 gallons/yr x 0.138 MN		VOC/yr
21,031 lb/yr x 1 ton/2000 lb = 10.5 tons HC-VC)C/yr	
9. Pollutant Potential/Estimated Fugitive Emis	sions Comment:	
N/A		

DEP Form No. 62-210.900(1) - Form

POLLUTANT DETAIL INFORMATION Page [8] of [10]

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

DEP Form No. 62-210.900(1) - Form

POLLUTANT DETAIL INFORMATION Page [9] of [10]

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:	2. Total Percent Efficient	ency of Control:
PM	0.0	
3. Potential Emissions:	4. Syntl	netically Limited?
1.5 lb/hour 1.55	5 tons/year 🔀 Y	res No
5. Range of Estimated Fugitive Emissions (as	applicable): N/A	
to tons/year		
6. Emission Factor: 0.0884 lb/MMBtu		7. Emissions
		Method Code:
Reference: Manufacturer provided emissions d	ata	5
8. Calculation of Emissions:		
0.0884 lb/MMBtu x 254,000 gallons/yr x 0.138 3,099 lb/yr x 1 ton/2000 lb = 1.55 tons PM/yr		M/yr
9. Pollutant Potential/Estimated Fugitive Emis N/A	sions Comment:	

POLLUTANT DETAIL INFORMATION Page [10] of [10]

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.

<u>Al</u>	lowable 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 Not applicable-this pollutant is not emissions	
Al	lowable 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):		
<u>Al</u>	lowable Emissions Allowable Emissions	of
i.	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):

DEP Form No. 62-210.900(1) - Form

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.

<u>Visible Emissions Limitation:</u> Visible Emissions Limitation $\underline{1}$ of $\underline{1}$

Visible Emissions Subtype: VE20	2. Basis for Allowable Opacity: Rule	
Allowable Opacity: Normal Conditions: 20 % E Maximum Period of Excess Opacity Allow	xceptional Conditions: % ed: 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: Rule Other	
3. Allowable Opacity:	Rule Other	
3. Allowable Opacity: Normal Conditions: % E	Rule Other	

DEP Form No. 62-210.900(1) - Form

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

DEP Form No. 62-210.900(1) - Form

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) Attached, Document ID: Attachment B 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) Attached, Document ID: Attachment G x 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) Attached, Document ID: N/A 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) Attached, Document ID: Previously Submitted, Date 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) Attached, Document ID: Previously Submitted, Date Not Applicable
6.	Compliance Demonstration Reports/Records Attached, Document ID:
	Test Date(s)/Pollutant(s) Tested:
	Previously Submitted, Date:
	Test Date(s)/Pollutant(s) Tested:
	To be Submitted, Date (if known):
	Test Date(s)/Pollutant(s) Tested:
	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 Attached, Document ID: Attachment H Not Applicable

31

DEP Form No. 62-210.900(1) - Form

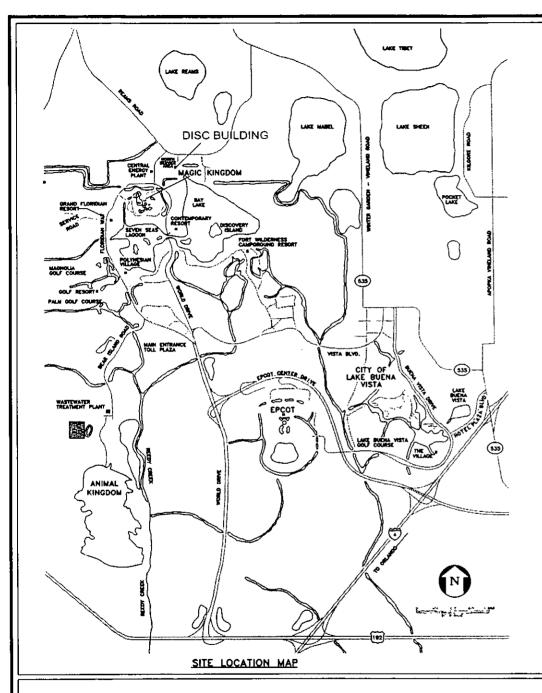
Additional Requirements for Air Construction Permit Applications

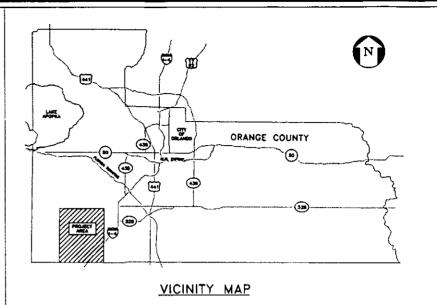
Auun	ional Requirements for All Construction Lethnic Applications
1	ontrol Technology Review and Analysis (Rules 62-212.400(6) and 62-212.500(7), A.C.; 40 CFR 63.43(d) and (e))
	Attached, Document ID: \times Not Applicable
	ood Engineering Practice Stack Height Analysis (Rule 62-212.400(5)(h)6., F.A.C., and
Rı	ıle 62-212.500(4)(f), F.A.C.)
	Attached, Document ID: Not Applicable
	escription of Stack Sampling Facilities (Required for proposed new stack sampling
fa	cilities only)
	Attached, Document ID: Not Applicable
Addit	ional Requirements for Title V Air Operation Permit Applications
ı	entification of Applicable Requirements
	Attached, Document ID:
2. Coi	mpliance Assurance Monitoring
	Attached, Document ID: Not Applicable
	ternative Methods of Operation
	Attached, Document ID: Not Applicable
	ternative Modes of Operation (Emissions Trading)
	Attached, Document ID: Not Applicable
	id Rain Part Application
	Certificate of Representation (EPA Form No. 7610-1)
_	Copy Attached, Document ID:
	Acid Rain Part (Form No. 62-210.900(1)(a)) Attached, Document ID:
	Previously Submitted, Date:
_	Repowering Extension Plan (Form No. 62-210.900(1)(a)1.)
	Attached, Document ID:
	Previously Submitted, Date:
	New Unit Exemption (Form No. 62-210.900(1)(a)2.)
	Attached, Document ID:
	Previously Submitted, Date:
	Retired Unit Exemption (Form No. 62-210.900(1)(a)3.)
	Attached, Document ID:
_	Previously Submitted, Date:
	Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID:
	Previously Submitted, Date:
_	Phase II NOx Averaging Plan (Form No. 62-210.900(1)(a)5.)
_	Attached, Document ID:
	Previously Submitted, Date:
l 15-	Not Applicable

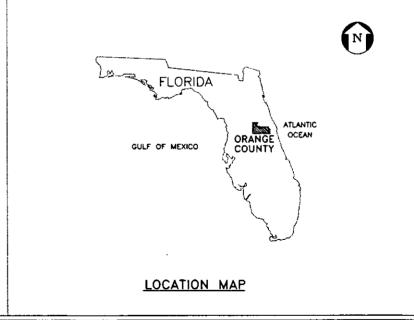
DEP Form No. 62-210.900(1) - Form

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

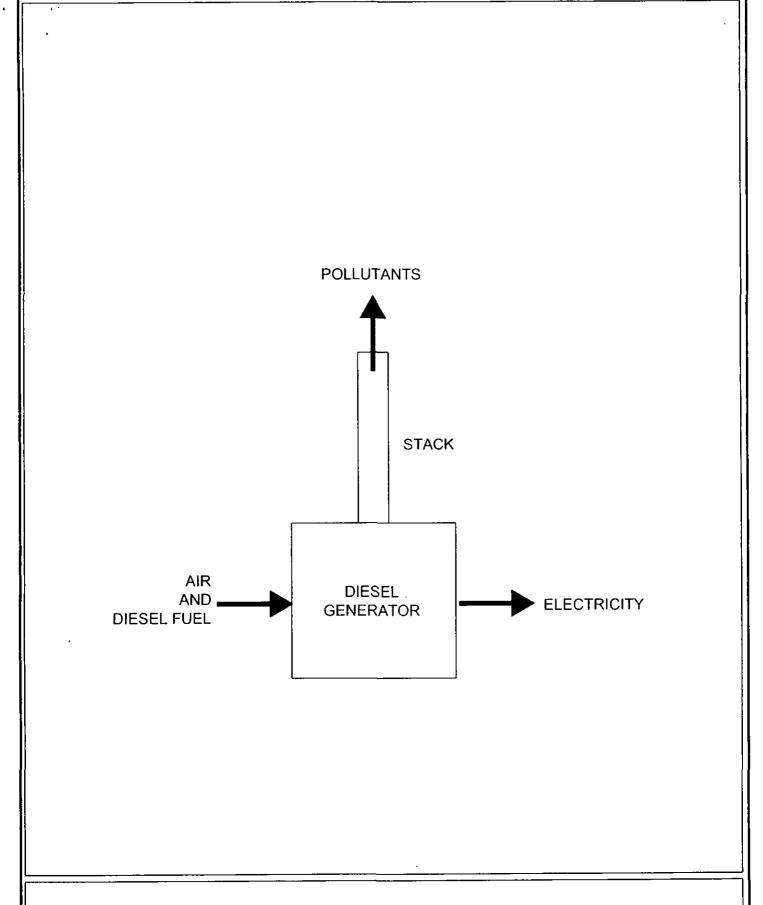
DEP Form No. 62-210.900(1) - Form







ATTACHMENT A LOCATOR MAP DISC BUILDING GENERATORS



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.

DETROIT DIESEL SPECTRUM.

Model: 1750DS-4

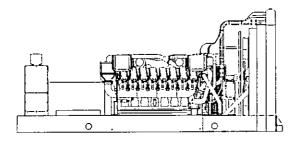
380-4160 V

4 Cycle Diesel



Ratings Range

		60 HZ	SU FIZ
Standby:	kW	1480-1750	1280-1540
•	kVA	1850-2188	1600-1925
Prime:	kW	1340-1590	1160-1400
	kVA	1675-1988	1450-1750



Generator Ratings

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.

				150°C Standby		130°C Standby		125°C Prime F		105°C Prime F	
Generator	Voltage	Ph	Hz	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps	kW/kVA	Amps
	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
7M4052	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
	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
7M4054	220/380	3	50	1540/1925	2925	1528/1910	2902	1400/1750	2659	1392/1740	2644
	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
7M4058	220/380	3	50	1540/1925	2925	1540/1925	2925	1400/1750	2659	1400/1750	2659
	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
7M4176	220/380	3	60	1750/2188	3324	1750/2188	3324	1590/1988	3020	1590/1988	3020
7M4292	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
7M4370	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
7M4374	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 rating sapply 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-3046/1, BS 5514, AS 2789, and DIN 6271. For limited numing 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 kability 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)

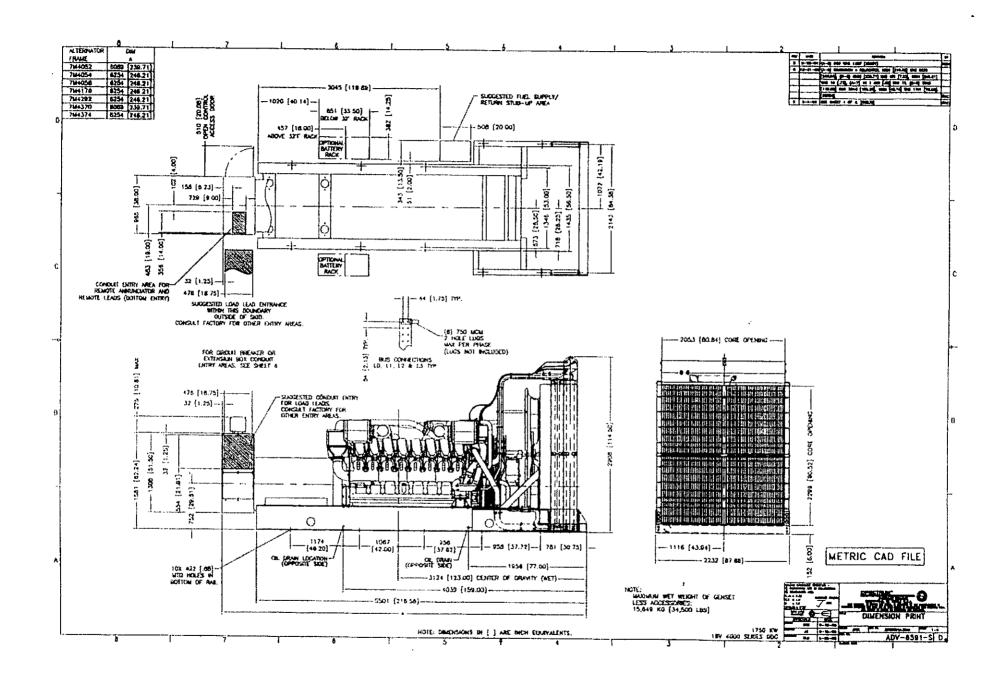


Detroit Diesel Spectrum N7650 County Trunk LS Sheboygan, Wisconsin 53083 USA Phone 920-459-1877, Fax 920-459-1825 DetroitDieselSpectrum.com

Standard Features and Accessories

Ad	ditional Standard Features		Paralleling System
• A	Alternator Protection (standard with Digital 550)		Load-Sharing Module
• C	Dil Drain Extension		Reactive Droop Compensator
	Operation and Installation Literature		Remote Speed Adjust Potentiometer/Electronic Governor
_	Pilot-Excited, Permanent-Magnet Generator (PMG)		Voltage Adjust Potentiometer
Ac	cessories		Voltage Regulator Relocation Kit
	Enclosed Unit		Maintenance
_	Sound Enclosure and Subbase Fuel Tank Packages		General Maintenance Literature Kit
	Weather Enclosure and Subbase Fuel Tank Packages		Overhaul Literature Kit
	Open Unit		Controller
	Exhaust Silencer, Critical 60 Hz kits: PA-361608-SD, PA-361625-SD		Common Failure Relay Kit
	50 Hz kits: PA-361609-SD, PA-361617-SD		Communication Products and PC Software (Digital 550 controller only)
	Exhaust Silencer, Hospital	\Box	Customer Connection Kit
	60 Hz kits: PA-361610-SD, PA-361626-SD 50 Hz kits: PA-361611-SD, PA-361626-SD		
П	Exhaust Silencer, Industrial		m 1 m 1 m 1 m
_	60 Hz kits: PA-361615-SD, PA-361629-SD		
_	50 Hz kits: PA-361616-SD, PA-361623-SD	_	
u	Exhaust Silencer, Residential 60 Hz kits: PA-361613-SD, PA-361628-SD		
	50 Hz kits: PA-361614-SD, PA-361621-SD	Ξ	
	Flexible Exhaust Connector, Stainless Steel	<u> </u>	
	Cooling System		•
	Block Heater		•
	City Water Cooling	_	Miscellaneous Accessories
	High Ambient Radiator		
	Radiator Duct Flange		119-11
	Remote Radiator Cooling		
	Fuel System	u	
	Flexible Fuel Lines		
	Fuel Filter		mensions and Weights
	Fuel Pressure Gauge	Ov	rerall Size, L x W x H, mm (in.): 6254 x 2232 x 2513 (246.21 x 87.88 x 98.94)
	Subbase Fuel Tank with Day Tank	We	eight (radiator model), wet, kg (lb.): 15649 (34500)
	Electrical System	_	
	•	- Í	
	Battery Charger, Equalize/Float Type	Ш	
	Battery Heater		
	Battery Rack and Cables	- [1	
	Engine and Generator	Ш	
	Air Cleaner, Heavy Duty	- ['	<u> </u>
	Air Cleaner Restriction Indicator		<u>, † [</u>
	Bus Bar Kits (standard on 7M generators, 380-600 volt only)	H	
	Generator Strip Heater	NO	TE. This drawing is provided for reference only and should not be used for planning
	Line Circuit Breaker (NEMA type 1 enclosure)	inst	allation. Contact your local distributor for more detailed information.
	Line Circuit Breaker with Shunt Trip (NEMA type 1 enclosure)	ות	ISTRIBUTED BY:
	NFPA 110 Literature	-	
	Optional Generators		
	Rated Power Factor Testing	1	
	Safeguard Breaker (not available with Digital 550)		:
	Integral Vibration Isolation Mounting (50 Hz)		
	Direct Mounting (50 Hz)		
	Spring Isolators (50/60 Hz)		

© 2002. All rights reserved.



Alternator Specifications

Specifications		Generator				
Туре		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, t	type	1, Sealed				
Coupling		Flexible Disc				
Amortisseur windir	ngs	Full				
Rotor balancing		125% 60 Hz, 150% 50 Hz				
	, no-load to full-load ue to temp. variation)	3-phase sensing, ±0.25%				
Unbalanced load of	apability	100% of Rated Standby Current				
One-step load acc	eptance at 60 Hz	100% of Rating				
Peak motor startin	g 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
- · 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	<u>Detroit</u> Di	esel/MTU		
Engine: model	16V4000 (T163-7K36)	16V4000 (T163-7K16)		
Engine: type		ycle, d, Intercooled		
Cylinder arrangement	16	SV		
Displacement, L (cu. in.)	65 (3	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	Forge	d Steel		
Valve (exhaust) material	High All	oy Steel		
Governor: type, make/model	DDEC Elect	ronic Control		
Frequency regulation, no-load to full-load	f Isochr	onous		
Frequency regulation, steady state	±0.2	25%		
Frequency	Fixed			
Air cleaner type, all models	D	ry		

Exhaust

Exhaust System	60 Hz	50 Hz	
Exhaust flow at rated kW, m ³ /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,	2 @ 254 (10)		

Engine Electrical

Engine Electrical System	60 Hz	50 Hz
Battery charging alternator:		
Ground (negative/positive)	Nega	ative
Voits (DC)	2	4
Ampere rating	7	0
Starter motor rated voltage (DC)	Dua	l, 24
Battery, recommended cold cranking amps (CCA):		
Oty., CCA rating above 0°C (32°F)	4, 9	950
Oty., CCA rating below 0°C (32°F)	8, 1	250
Battery voltage (DC)	1	2

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	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 D	rieset	

Lubrication

Lubricating System	60 Hz 50 Hz			
Туре	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-0	Cooled		

Application Data

Cooling Systems

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.)		(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	Centi	rifugal
Fan diameter, including blades, mm (in.)	1829	9 (72)
Fan, kWm (HP)	60 (81)	49 (66)
Max. restriction of cooling air, intake and discharge side of radiator, kPa (in. H ₂ O)	0.125	5 (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 ₂ O)	0.125 (0.5)	
Remote Radiator System*	60 Hz	50 Hz
Exhaust manifold type)ry
Connection sizes:		ANSI Flange
Water inlet, mm (in.)		Bolt Circle
Water outlet, mm (in.)		Bolt Circle
Intercooler inlet/outlet, mm (in.)	152 (6.0)	Bolt Circle
Static head allowable above engine, kPa (ft. H ₂ O)	149	(50)
City Water Cooling (CWC) System	60 Hz	50 Hz
Exhaust manifold type		ry
Connection sizes:		
Water inlet, mm (in.)		*
Water outlet, mm (in.)		*
ALPRO A CONTRACTOR OF THE STATE	-	

^{*} 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,	1866	1838	
m³/min. (scfm)†	(65900)	(64900)	
High ambient radiator-cooled cooling air,	3118		
m³/min. (scfm)†	(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 ³ /min. (cfm)	552 (19500)	499 (17700)	
Combustion air, m ³ /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 ³ (0.075 lbm/ft ³)			
Fuel Consumption	60 Hz	50 Hz	
	Standby Rating		
Diesel, Lph (gph) at % load	Standby	Rating	
Diesel, Lph (gph) at % load	Standby 433.2(114.4)	Rating 385.0(101.7)	
	<u> </u>		
100%	433.2(114.4)	385.0(101.7)	
100% 75%	433.2(114.4) 329.3 (87.0)	385.0(101.7) 291:1 (76.9)	
100% 75% 50%	433.2(114.4) 329.3 (87.0) 229.4 (60.6)	385.0(101.7) 291:1 (76.9) 198.7 (52.5) 108.6 (28.7)	
100% 75% 50% 25%	433.2(114.4) 329.3 (87.0) 229.4 (60.6) 127.2 (33.6)	385.0(101.7) 291:1 (76.9) 198.7 (52.5) 108.6 (28.7)	
100% 75% 50% 25% Diesel, Lph (gph) at % load	433.2(114.4) 329.3 (87.0) 229.4 (60.6) 127.2 (33.6) Prime	385.0(101.7) 291.1 (76.9) 198.7 (52.5) 108.6 (28.7) Rating	
100% 75% 50% 25% Diesel, Lph (gph) at % load 100%	433.2(114.4) 329.3 (87.0) 229.4 (60.6) 127.2 (33.6) Prime 394.4(104.2)	385.0(101.7) 291:1 (76.9) 198.7 (52.5) 108.6 (28.7) Rating 350.9 (92.7)	
100% 75% 50% 25% Diesel, Lph (gph) at % load 100% 75%	433.2(114.4) 329.3 (87.0) 229.4 (60.6) 127.2 (33.6) Prime 394.4(104.2) 302.8 (80.0)	385.0(101.7) 291:1 (76.9) 198.7 (52.5) 108.6 (28.7) Rating 350.9 (92.7) 265.7 (70.2)	

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.

Standby Power Limit: 2550 bhp @ 1800 r/min

D2-Cycle Emissions

		_				
	10%	25%	50%	75%	100%	Total (g/bhp-hr)
NOx	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 ₂ - with .5% sulfur content fuel	282	542	977	1,405	1,845	
SO ₂ - with .05% sulfur content fuel	28.2	54.2	97.7	140	184	-
Particulates	177	186	209	205	228	

Smoke Summary, Bosch No.

Smoke

Summary

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

Test Conditions:

Inquiries should be sent to: George.Polson@Detroitdiesel.com

Inquiries for certification information should be sent to: Joanna.Vardas@Detroitdiesel.com Inquiries for emission data should be sent to: Gerd.Stoll@Detroitdiesel.com

Printed on: - 11/12/2003

The user is advised to check the PowerEvolution Network for latest information. ©1999-2002 Detroit Diesel Corporation - A DaimlerChrysler Powersystems Company. All Rights Reserved.

Page 5 of 9

UNCONTROLLED COPY

Date Last Updated: 7/20/2000

ATTACHMENT E EMISSIONS CALCULATIONS

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

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

Max Emissions	Emissions,	· ·	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 1 Emissions rates

The following data was provided by the manufacturer:

	<u> </u>	Engine Load					
Emissions Factor, g/hr	10%	25%	50%	75%	100%		
NOx	1625	3705	7985	12240	15715		
CO	2760	2105	1180	687	872		
SO25% S	282	542	977	1405	1845		
SO205% 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 manufaturer'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
SO25% S	1.194	2.152	3.095	4.064
SO205% 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 manufaturer'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
SO25% S	0.257	0.257	0.258	0.257
SO205% 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 lb NOx/MMBtu x 0.138 MMBtu/gal = 0.2429 lb NOx/gal 0.2429 lb NOx/gal x 254,000 gallons/yr = 61,691 lb NOx/yr \div 2000 lb/ton = 30.85 tons NOX/yr

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

- <---Maximum annual CO emissions
- <---Maximum annual SO2 emissions
- <---Maximum annual PM emissions
- <---Maximum annual HC emissions

ATTACHMENT E EMISSIONS CALCULATIONS

Fuel input, gph @ 50%	60.6		
		Emissions,	Annual
Emissions Factor, lb/MMBtu		lb/gal	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,	Annual
Emissions Factor, lb/MMBtu		lb/gal	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,	Annual
Emissions Factor, lb/MMBtu		lb/gal	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

Louislana Refining Division

Laboatory

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

No. 2 Diesel/Fuel Oil Certificate of Analysis #

LIMS Identification Number:	AF72718 h	ttp://webmail.cfl.rr.com/index.cgl
Tank or Vessel Sampled:	TK 300-1	
Sampled by:	MAP	
Date/Time Sampled:	5/22/02 2115	

MA	RATHON ASHL	AND LABORATOR	RY DATA			
	SPECIFICATIONS					
	ASTM TEST	HSD	HSD	LSD	TEST	
PARAMETER	METHOD	SOUTHEAST	MIDWEST		RESULTS	
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 mex.	0.0340	
Flash, PMCC °F	D93-A	140 min.	125 mln.	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 Southeas	t	
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.	<u> </u>	
Pour Point, °F	D-5949			Midwest Southeas		
Winter (8/1 - 2/28)		0 max.	-15 mex.	-15 max. 0 max		
Summer (3/1 -7/31)		+10 max.	+10 max.	+10 max. +10 max.		
Distillation, °F	D-86			Barata a Barata a		
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				Lange, Josephik, Ad.		
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:

Micei Ruble

Date:

5/24/02