Florida Department of Environmental Protection

TO:

Tring I Wirthman

THRU:

A. A. Linero, P.E. W

FROM:

Scott M. Sheplak, P.E.

DATE:

November 27, 2007

SUBJECT:

Walt Disney World Company

Walt Disney World Resort Complex

FINAL Permit Package

Title V Air Operation Permit Renewal **FINAL Permit No.:** 0950111-029-AV

Attached for approval and signature is a permit to renew the Title V air operation permit. The permit renewal is for the operation of the Walt Disney World Resort Complex.

The <u>STATEMENT OF BASIS</u> contains a brief overview of the changes made in this permit compared to the most recently posted Title V permit on the web site. This permit was processed using a parallel review.

We recommend your approval and signature.

Attachments

AAL/sms



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

NOTICE OF FINAL PERMIT

In the Matter of an Application for Permit Renewal by:

Mr. Lee Schmudde Vice President Walt Disney World Company P.O. Box 10,000 Lake Buena Vista, FL 32830-1000 Title V Permit Renewal No. 0950111-029-AV Walt Disney World Resort Complex Orange and Osceola Counties

Enclosed is FINAL Title V Permit Renewal Number 0950111-029-AV for the operation of the Walt Disney World Resort Complex located at 1375 Buena Vista Drive, Lake Buena Vista, Orange and Osceola Counties, issued pursuant to Chapter 403, Florida Statutes (F.S.).

Any party to this order (permit) 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 30 (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

TLV/AAL/sms

CERTIFICATE OF SERVICE

Mr. Lee Schmudde, Walf Disney World Company: lee.schmudde@disney.com

Mr. Richard A. Bumar, Jr., P.E., Walt Disney World Company: rich.bumar@disney.com

Ms. Barbara Friday, DEP BAR: <u>Barbara.Friday@dep.state.fl.us</u> (for posting with U.S. EPA, Region 4)

Mr. Jim Bradner, P.E., DEP Central District Office: james.bradner@dep.state.fl.us

Ms. Katy R. Forney, U.S. EPA, Region 4: Forney.Kathleen@epamail.epa.gov

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.

(Člerk)

(Date)

FINAL PERMIT DETERMINATION

I. Public Notice.

A "Written Notice of Intent to Issue Title V Air Operation Permit" to Walt Disney World Company for the Walt Disney World Resort Complex located at 1375 Buena Vista Drive, Lake Buena Vista, Orange and Osceola Counties, was clerked and posted on the Department's web site on October 10, 2007. This permit was processed using a parallel review. The DRAFT/PROPOSED Permit was available for public inspection at the Department's Central District Office in Orlando and the permitting authority's office in Tallahassee. The "Public Notice of Intent to Issue Title V Air Operation Permit" was published in the Orlando Sentinel on October 11. Proof of publication of the "Public Notice of Intent to Issue Title V Air Operation Permit" was received on October 18.

II. Public Comment(s).

No comments were received from the public concerning the DRAFT/PROPOSED Title V Permit Renewal.

III. U.S. EPA Review.

On October 10, the Department informed U.S. EPA Region 4 that this permit was being processed using a parallel review. U.S. EPA was notified of the publication date of the Public Notice on October 18. The U.S. EPA review period ended on November 25 (Day 45). No comments were received from U.S. EPA Region 4 on the DRAFT/PROPOSED Title V Permit Renewal.

IV. Conclusion.

The permitting authority hereby issues the FINAL Title V Permit Renewal.

STATEMENT OF BASIS

Walt Disney World Company Walt Disney World Resort Complex

Facility ID.: 0950111 Orange and Osceola Counties

Title V Air Operation Permit Renewal FINAL Permit No.: 0950111-029-AV

This Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213, and 62-214. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

This Title V Air Operation Permit Renewal is for the operation of the Walt Disney World Resort Complex. 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.

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 and hot water heaters.

The Walt Disney World Resort Complex operates 120 stand-by/emergency generators that fire new No. 2 distillate diesel fuel oil (108), natural gas (11), or liquefied petroleum gas (1). Of these generators within the complex, 85 are assigned to the Walt Disney World Company operations and 35 are assigned to the Reedy Creek Improvement District operations.

The Reedy Creek Energy Services (RCES) operates a combined cycle combustion turbine (CT) system followed by an associated natural gas-fired duct burner and a heat recovery steam generator (HRSG). Details follow below.

Description: The emissions unit is a General Electric Model No. LM 6000PC gas turbine (nominal 50 megawatts) with heat recovery steam generator and steam turbine electrical generator (nominal 8.5 megawatts). The gas turbine includes SPRINTTM spray inter-cooling technology and inlet air chilling. Natural gas (source classification code No. 2-01-002-01) is the primary fuel with distillate oil (source classification code No. 2-01-001-01) as a restricted alternate fuel limited to no more than 475 hours per year. The permitted capacity is 505 MMBtu per hour of heat input from either fuel based on a compressor inlet air temperature of 30° F, 100% load, and the higher heating value of the fuel.

Controls: Water injection decreases flame temperatures to control emissions of nitrogen oxides (NOx). An oxidation catalyst minimizes emissions of carbon monoxide (CO) and volatile organic compounds (VOC).

Monitors: NOx emissions are monitored and recorded by a continuous emissions monitoring system (CEMS). The water-to-fuel ratio is also continuously monitored.

Stack Parameters: The exhaust stack is approximately 11.1 feet in diameter and 65 feet tall. Exhaust gas will exit the stack at approximately 285° F with a volumetric flow rate of approximately 350,935 actual cubic feet per minute based on a compressor inlet air temperature of 48° F, 100% load, and the inlet chiller operation.

The North Service Area Laundry consists of three (3) laundry boilers (Nos. 1, 2 & 3), which are manufactured by York-Shipley. Nos. 1 and 2 are rated at 300 horsepower (HP) and No. 3 is rated at 350 HP. The combined maximum total heat input of the three boilers is 39.6 MMBtu/hr from the firing of natural gas only. The laundry boilers are subject to 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units; and, they are regulated under Rule 62-296.406, F.A.C., Fossil Fuel Steam Generators With Less Than 250 MMBtu Per Hour Heat Input.

Disney's Boardwalk Resort has two (2) boilers (Nos. BDW-1 & 2), which are manufactured by Cleaver Brooks, Model Nos. CBE-700-250. The boilers are each rated at 250 HP. The maximum heat input of each boiler is 10.46 MMBtu/hr from the firing of natural gas only. The boilers are subject to 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units; and, they are regulated under Rule 62-296.406, F.A.C., Fossil Fuel Steam Generators With Less Than 250 MMBtu Per Hour Heat Input.

The Reedy Creek Improvement District's Epcot Central Energy Plant has two (2) identical 3,600 horsepower large bore diesel engines (Nos. Epcot DG-1 & 2), manufactured by Stewart & Stevenson, Model Nos. S-20-645-E4B. Each engine is equipped with a 2.5 megawatt generator, Model TBGZHJ. Each generator provides peak demand reduction and emergency standby power. Each emissions unit is permitted to fire new No. 2 distillate fuel oil only. The sulfur content of the new No. 2 distillate fuel oil shall not exceed 0.5%, by weight. The firing of low sulfur fuel oil negates the need to conduct any SO₂ mass tests. Each emissions unit is allowed to operate 1900 hrs/yr.

The animal crematory requirements of Rule 62-296.401(6), F.A.C. were changed effective 01/10/2007. Subsection E. of this permit was updated to reflect the changes.

The applicant requested inclusion of the recently completed replacement dry cleaning machine. The new machine permitted under Permit No. 0950111-028-AC is included in Subsection G. of this permit. The Columbia T.D. Mach 2 80-80 dry cleaning machine replaced the previously permitted Multimatic Atlas 45 dry cleaning machine, which had been listed in the facility's prior Title V Permit No. 0950111-027-AV as emissions unit 1 (E.U. ID No. -001). The new machine is a closed loop design, i.e., there are no stack emissions or other discrete emissions points. Air emissions are expected to occur only as a result of fugitive emissions. The new machine is considered a "4th generation" dry cleaning machine which will utilize a carbon adsorber and refrigerated condenser to reclaim perchloroethylene (PCE) and is a closed loop system with no stack emissions. The perchloroethylene dry cleaning operation is subject to 40 CFR 63, Subpart M, National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities.

Also included in this permit are miscellaneous unregulated (paint spray booths, etc.) and insignificant emissions units/activities.

Based on the Title V permit renewal application received on July 4, 2007, this facility is a major source of hazardous air pollutants (HAP).

This facility has emissions units that were potentially subject to newly promulgated MACTs under 40 CFR 63; specifically, the Reciprocating Internal Combustion Engines (RICE) MACT Subpart ZZZZ for engines, and the MACT Subpart DDDDD for industrial boilers & process heaters and the MACT Subpart YYYY for combustion turbines.

On July 30, 2007, the Court of Appeals for the District of Columbia Circuit issued its mandate in NRDC v. EPA, vacating and remanding EPA's MACT Subpart DDDDD for industrial boilers & process heaters. Therefore, this MACT does not apply.

The following engines were potentially subject to MACT Subpart ZZZZ:

Subsection C.

Reedy Creek Improvement District/Epcot	
-079 (Epcot DG-1)	2.5 MW Diesel Generator
-080 (Epcot DG-2)	2.5 MW Diesel Generator

Subsection F.

Disney's Animal Kingdom	
-120	Three Diesel Electric Generators Serving the DISC Building

The RICE MACT Subpart ZZZZ for engines *does not apply* to emissions units at the facility since the engines at the facility are considered to be 'existing compression ignition (CI) stationary RICE units under this subpart. Key applicability descriptions like the construction dates and type and size of the engine are added into the emissions unit descriptions of the permit if not already present. (See the applicability determination from the applicant in the e-mail dated August 27, 2007.)

MACT Subpart YYYY applies to the new combustion turbine, Combined Cycle Combustion Turbine (CCCT), E.U. ID No. -088. The effectiveness of the emission standards has been stayed by EPA as stated in 40 CFR 63.6095(d). Only an initial notification requirement applies if and when the unit becomes subject to the regulation. (See the applicability determination from the applicant in the e-mail dated August 27, 2007.)

The new gas turbine, Combined Cycle Combustion Turbine (CCCT), E.U. ID No. -088, is considered an 'existing' unit with regard to NSPS 40 CFR 60 Subpart KKKK for stationary gas turbines, which was proposed on February 18, 2005, and therefore it is not subject to NSPS Subpart KKKK. (See the applicability determination from the applicant in the e-mail dated August 27, 2007.)

The provisions of Compliance Assurance Monitoring (CAM), contained in 40 CFR 64 do apply to the Combined Cycle Combustion Turbine (CCCT), E.U. ID No. -088. This unit is subject to CAM for CO emissions. A CAM Plan was included in the last Title V permit renewal. Minor changes were made to the CAM Plan in this permit.

Walt Disney World Company
Walt Disney World Resort Complex
Facility ID No.: 0950111
Orange and Osceola Counties

Title V Air Operation Permit Renewal **FINAL Permit No.:** 0950111-029-AV

Permitting Authority:

State of Florida
Department of Environmental Protection
Division of Air Resource Management
Bureau of Air Regulation

Mail Station #5505 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Telephone: 850/488-0114 Fax: 850/921-9533

Compliance Authority:

State of Florida
Department of Environmental Protection
Central District Office
3319 Maguire Boulevard, Suite 232
Orlando, Florida 32803-3767

Telephone: 407/894-7555 Fax: 407/897-2966



Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Charlie Crist Governor

Jeff Kottkamp Lt. Governor

Michael W. Sole Secretary

Permittee:

Walt Disney World Company P.O. Box 10,000 Orlando, Florida 32830-1000 FINAL Permit No.: 0950111-029-AV

Facility ID No.: 0950111

SIC Nos.: 79, 7996

Project: Title V Air Operation Permit Renewal

This permit renewal is for the operation of the Walt Disney World Resort Complex. This facility is located at 1375 Buena Vista Drive, Lake Buena Vista, 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 Title V Air Operation Permit Renewal is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, 62-213 and 62-214. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans, and other documents, attached hereto or on file with the permitting authority, in accordance with the terms and conditions of this permit.

Referenced attachments made a part of this permit:

Appendix U-1, List of Unregulated Emissions Units and/or Activities
Appendix I-1, List of Insignificant Emissions Units and/or Activities
APPENDIX TV-6, TITLE V CONDITIONS (version dated 06/23/06)
APPENDIX SS-1, STACK SAMPLING FACILITIES (dated 10/07/96)
TABLE 297.310-1, CALIBRATION SCHEDULE (dated 10/07/96)
FIGURE 1 - SUMMARY REPORT - GASEOUS AND OPACITY EXCESS EMISSIONS
AND MONITORING SYSTEMS PERFORMANCE REPORT (40 CFR 60, July 1996)
Appendix AR-1, Acid Rain: Phase II Acid Rain Application dated 06/29/2007

Alternate Sampling Procedure: ASP Number 97-B-01

Appendix CAM

Effective Date: January 1, 2008

Renewal Application Due Date: July 4, 2012

Expiration Date: December 31, 2012

Joseph Kahn, Director

Division of Air Resource Management

JK/tlv/aal/sms

Title V Air Operation Permit Renewal **FINAL Permit No.:** 0950111-029-AV

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Section I. Facility Information.

Subsection A. Facility Description.

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 (thermal) oil heaters and hot water heaters.

FINAL Permit No.: 0950111-029-AV

Based on the Title V permit renewal application received on July 4, 2007, this facility is a major source of hazardous air pollutants (HAP).

Subsection B. Summary of Emissions Unit ID No(s). and Brief Description(s).

Note: the "(Facility ID No.)" followed by "E.U. ID No." cited throughout this permit is an internal reference used by the permittee.

E.U. ID No. (Facility ID No.)	Brief Description
North Service Area (NSA)	Province apriori
-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
Disney's Grand Floridian Hotel	
-035 (GFR2 thru 18)	16 Hot Water Heaters
Disney-MGM Studios	
-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)
Buena Vista Construction	
-062 (BVC-1)	PSB
<u>Facilities Services</u>	
-063 (LBV-1 & 2)	PSBs
<u>Disney Village</u>	
-065 (VM-3)	PSB
Ft. Wilderness/Golf Course	
-066 (FWR-4)	PSB
Yacht & Beach Club	
-067 (YBC-3)	PSB
EPCOT Center	
-068 (EP-1 & 2)	PSBs
-070 (EP-3)	PSB

E.U. ID No. (Facility ID No.)	Brief Description	
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	Di Gui	
-102 (COS-41)	PSB	
Disney's Animal Kingdom	100	
-103 (DAKU-1 thru 51)	51 Hot Water Heaters	
Necropsy Building	31 Hot Water Houters	
-112 (DAK-1)	Crawford Model CB800 Animal Crematory	
All Star Resort	Ciawioid Model obood Ammai Olematory	
-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	
NSA Monorail Building	DA Simili tollog ill miditalistici (10.1	
	Monorail Trains PSB	
-118 (NSA-20)	INTOHOLOH HOMB LOD	
Disney's Animal Kingdom	Maintanana DCD	
-119	Maintenance PSB	
-120	Three Diesel Electric Generators Serving the DISC Building	
North Service Area Dry Cleaning Plant		
-121	Dry Cleaning Machine	

FINAL Permit No.: 0950111-029-AV

Unregulated Emissions Units and/or Activities

{Permitting note: For Unregulated Emissions Units and/or Activities, see Appendix U-1.}

Please reference the Permit No., Facility ID No., and appropriate Emissions Unit(s) ID No(s). on all correspondence, test report submittals, applications, etc.

FINAL Permit No.: 0950111-029-AV

Subsection C. Relevant Documents.

The documents listed below are not a part of this permit; however, they are specifically related to this permitting action.

These documents are provided to the permittee for information purposes only:

Appendix A-1, Abbreviations, Acronyms, Citations, and Identification Numbers

Appendix H-1, Permit History/ID Number Changes

Statement of Basis

These documents are on file with the permitting authority:

Application for a Title V Air Operation Permit Renewal received July 4, 2007, electronically via Electronic Permit Submittal and Processing System (EPSAP).

Additional Information received on August 27 & 29 and September 7, 2007 via e-mail.

Certifications of Completion of Construction of Dry Cleaning Machine under 0950111-028-AC.

Request to include Dry Cleaning Machine in Title V Air Operation Permit Renewal dated October 1, 2007.

DRAFT/PROPOSED Title V Air Operation Permit Renewal clerked on October 10, 2007. Public Notice published on October 11, 2007.

Notification to U.S. EPA Region 4 of Publication of Public Notice dated October 18, 2007.

Section II. Facility-wide Conditions.

The following conditions apply facility-wide:

1. APPENDIX TV-6, TITLE V CONDITIONS, is a part of this permit. {Permitting Note: APPENDIX TV-6, TITLE V CONDITIONS, is distributed to the permittee only. Other persons requesting copies of these conditions shall be provided a copy when requested or otherwise appropriate.}

FINAL Permit No.: 0950111-029-AV

2. General Pollutant Emission Limiting Standards. Objectionable Odor Prohibited. No person shall cause, suffer, allow, or permit the discharge of air pollutants which cause or contribute to an objectionable odor.

[Rule 62-296.320(2), F.A.C.; AC48-151472; AC48-151504; AC48-151506; AC48-151507; AC48-151509; AC48-151510; AC48-156346; AC48-166499; AC48-179648; AC48-179649; AC48-205018; AC48-243981; and, AO48-183381]

3. General Particulate Emission Limiting Standards. General Visible Emissions Standard. Except for emissions units that are subject to a particulate matter or opacity limit set forth or established by rule and reflected by conditions in this permit, no person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity, the density of which is equal to or greater than that designated as Number 1 on the Ringelmann Chart (20 percent opacity). EPA Method 9 is the method of compliance pursuant to Chapter 62-297, F.A.C.
[Rules 62-296.320(4)(b)1. & 4., F.A.C.]

- 4. Prevention of Accidental Releases (Section 112(r) of CAA).
- a. The permittee shall submit its Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center when, and if, such requirement becomes applicable. Any Risk Management Plans, original submittals, revisions or updates to submittals, should be sent to:

RMP Reporting Center
P.O. Box 1515

Lanham-Seabrook, Maryland 20703-1515

Telephone: 301/429-5018

and,

- b. The permittee shall submit to the permitting authority Title V certification forms or a compliance schedule in accordance with Rule 62-213.440(2), F.A.C. [40 CFR 68]
- 5. <u>Unregulated Emissions Units and/or Activities.</u> Appendix U-1, List of Unregulated Emissions Units and/or Activities, is a part of this permit. [Rule 62-213.440(1), F.A.C.]
- 6. <u>Insignificant Emissions Units and/or Activities.</u> Appendix I-1, List of Insignificant Emissions Units and/or Activities, is a part of this permit. [Rules 62-213.440(1), 62-213.430(6) and 62-4.040(1)(b), F.A.C.]

7. General Pollutant Emission Limiting Standards. Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds (VOC) or organic solvents (OS) without applying known and existing vapor emission control devices or systems deemed necessary and ordered by the Department.

Nothing was deemed necessary and ordered at this time.

FINAL Permit No.: 0950111-029-AV

[Rule 62-296.320(1)(a), F.A.C.; and, renewal Title V permit application received July 4, 2007]

8. Emissions of Unconfined Particulate Matter. Pursuant to Rules 62-296.320(4)(c)1., 3. & 4., F.A.C., reasonable precautions to prevent emissions of unconfined particulate matter at this facility include the following requirements (see Condition 57. of APPENDIX TV-6, TITLE V CONDITIONS):

The following requirements are "not federally enforceable":

- a. chemical or water application to unpaved roads, unpaved yard areas, and storage piles;
- b. paving and maintenance of roads, parking areas and plant grounds;
- c. landscaping and planting of vegetation;
- d. confining abrasive blasting where possible;
- e. other techniques, as necessary; and,
- f. for the solid waste disposal area, wetting agents shall be applied.

[Rule 62-296.320(4)(c)2., F.A.C.; and, proposed by the applicant in the renewal Title V permit application received July 4, 2007.]

- 9. <u>Timely Recording, Monitoring and Reporting.</u> When appropriate, any recording, monitoring, or reporting requirements that are time-specific shall be in accordance with the effective date of the permit, which defines day one. [Rule 62-213.440, F.A.C.]
- 10. <u>Compliance Authority</u>. The permittee shall submit all compliance related notifications and reports required of this permit to the Department's Central District office at the following address:

Department of Environmental Protection Central District Office 3319 Maguire Boulevard, Suite 232 Orlando, Florida 32803-3767 Telephone: 407/894-7555 Fax: 407/897-2966

11. <u>EPA Contact Information.</u> Any reports, data, notifications, certifications, and requests required to be sent to the United States Environmental Protection Agency, Region 4, should be sent to:

United States Environmental Protection Agency
Region 4
Air, Pesticides & Toxics Management Division
Operating Permits Section
61 Forsyth Street
Atlanta, Georgia 30303
Telephone: 404/562-9155
Fax: 404/562-9163

Walt Disney World Co.
Walt Disney World Resort Complex

12. <u>Statement of Compliance</u>. The annual statement of compliance pursuant to Rule 62-213.440(3)(a)2., F.A.C., shall be submitted to the Department and EPA within 60 (sixty) days after the end of the calendar year using DEP Form No. 62-213.900(7), F.A.C.

FINAL Permit No.: 0950111-029-AV

{Permitting Note: This condition implements the requirements of Rules 62-213.440(3)(a)2. & 3., F.A.C. (see Condition 51. of APPENDIX TV-6, TITLE V CONDITIONS)}

[Rules 62-213.440(3) and 62-213.900, F.A.C.]

13. Certification by Responsible Official (RO). In addition to the professional engineering certification required for applications by Rule 62-4.050(3), F.A.C., any application form, report, compliance statement, compliance plan and compliance schedule submitted pursuant to Chapter 62-213, F.A.C., shall contain a certification signed by a responsible official that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. Any responsible official who fails to submit any required information or who has submitted incorrect information shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary information or correct information.

[Rule 62-213.420(4), F.A.C.]

Miscellaneous

14. There shall be no discharges of liquid effluents or contaminated runoff to surface or ground water without approval from the Department.

[0950111-005-AV]

Section III. Emissions Units.

Subsection A. This section addresses the following emissions unit.

E.U. ID No./Facility ID No.	Brief Description		
-088/CEP-1	GE LM 6000PC gas turbine (nominal 50 MW) operating in combined cycle mode with heat recovery		
	steam generator and steam turbine electrical generator (nominal 8.5 MW)		

Emissions Unit No. 088

Description: The emissions unit is a General Electric Model No. LM 6000PC gas turbine (nominal 50 MW) with heat recovery steam generator and steam turbine electrical generator (nominal 8.5 MW). The gas turbine includes SPRINTTM spray inter-cooling technology and inlet air chilling. Natural gas (SCC No. 2-01-002-01) is the primary fuel with distillate oil (SCC No. 2-01-001-01) as a restricted alternate fuel limited to no more than 475 hours per year. The permitted capacity is 505 MMBtu per hour of heat input from either fuel based on a compressor inlet air temperature of 30° F, 100% load, and the higher heating value of the fuel.

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Controls: Water injection decreases flame temperatures to control emissions of nitrogen oxides (NOx). An oxidation catalyst minimizes emissions of carbon monoxide (CO) and volatile organic compounds (VOC).

Monitors: NOx emissions are monitored and recorded by a continuous emissions monitoring system (CEMS). The water-to-fuel ratio is also continuously monitored.

Stack Parameters: The exhaust stack is approximately 11.1 feet in diameter and 65 feet tall. Exhaust gas exits the stack at approximately 285° F with a volumetric flow rate of approximately 350,935 acfm based on a compressor inlet air temperature of 48° F, 100% load, and the inlet chiller operation.

Station emergency power is provided by the Black Start Cummings No. 2 fuel oil fired emergency electric generator (see Appendix I-1).

{Permitting Notes: The emissions unit is regulated under NSPS - 40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines, and Subpart Db, Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units, adopted and incorporated by reference in Rules 62-204.800(7)(b)38. & 62-204.800(7)(b)3., F.A.C., respectively; PSD-FL-014/014(A)/123, Prevention of Significant Deterioration (PSD), in Rule 62-212.400, F.A.C.; and 0950111-026-AC. For the combined cycle gas turbine and duct burner, 0950111-026-AC supersedes original Permit No. AC48-137740 (PSD-FL-123), which authorized initial construction. Commercial operation with the new gas turbine began in February 2006.}

{Permitting Note: The new gas turbine is considered an existing unit with regard to NSPS 40 CFR 60 Subpart KKKK for stationary gas turbines, which was proposed on February 18, 2005, therefore it is not subject to NSPS Subpart KKKK (see Permit No. 0950111-025-AC). MACT Subpart YYYY applies to the new combustion turbine, Combined Cycle Combustion Turbine (CCCT), E.U. ID No. -088. The effectiveness of the emission standards has been stayed by EPA as stated in 40 CFR 63.6095(d). Only an initial notification requirement applies if and when the unit becomes subject to the regulation.}

The following specific conditions apply to the emissions unit listed above:

General

A.1. <u>Definitions</u>. For the purposes of Rule 62-204.800(7), F.A.C., the definitions contained in the various provisions of 40 CFR 60, shall apply except that the term "Administrator" when used in 40 CFR 60, shall mean the Secretary or the Secretary's designee.

[40 CFR 60.2; Rule 62-204.800(7)(a), F.A.C.]

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- **A.2.** <u>Circumvention</u>. No owner or operator subject to the provisions of 40 CFR 60 shall build, erect, install, or use any article, machine, equipment or process, the use of which conceals an emission which would otherwise constitute a violation of an applicable standard. Such concealment includes, but is not limited to, the use of gaseous diluents to achieve compliance with an opacity standard or with a standard which is based on the concentration of a pollutant in the gases discharged to the atmosphere.

 [40 CFR 60.12]
- **A.3.** Modifications. Except as provided under 40 CFR 60.14(e) and (f), any physical or operational change to an existing facility which results in an increase in the emission rate to the atmosphere of any pollutant to which a standard applies shall be considered a modification within the meaning of Section 11 of the Act. Upon modification, an existing facility shall become an affected facility for each pollutant to which a standard applies and for which there is an increase in the emission rate to the atmosphere.

 [40 CFR 60.14(a)]
- **A.3.1.** Water Injection. In accordance with the manufacturer's recommendations, the permittee shall tune, operate, and maintain a water injection system to reduce NOx emissions from the gas turbine to achieve the permitted NOx standards. The water injection system shall continuously monitor the water-to-fuel ratio.

[40 CFR 60 Subpart GG; and 0950111-026-AC, Specific Condition 5.]

Essential Potential to Emit (PTE) Parameters

A.4. Permitted Capacity. The maximum heat input rate to the gas turbine is 505 MMBtu per hour based on the higher heating value of each fuel, a compressor inlet temperature of 30° F, and full load operation.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; 40 CFR 60.332(b); and 0950111-026-AC, Specific Condition 6.]

- **A.5.** Emissions Unit Operating Rate Limitation After Testing. See Specific Condition **A.36**. [Rule 62-297.310(2), F.A.C.]
- **A.6.** Authorized Fuel. The gas turbine shall fire only the following fuels.
 - a. Natural Gas: As the primary fuel, the gas turbine shall fire pipeline natural gas.
 - b. Distillate Oil: As a restricted alternate fuel, the gas turbine may fire No. 2 distillate oil (or superior) with a maximum fuel sulfur content of no more than 0.1% sulfur by weight. Distillate oil firing shall not exceed 475 hours during any consecutive 12 months. Initial compliance with the fuel sulfur limit shall be demonstrated by taking a sample, analyzing the sample for fuel sulfur, and reporting the results to the Compliance Authority before

initial startup on oil. Sampling the fuel oil sulfur content shall be conducted in accordance with ASTM D4057-88, Standard Practice for Manual Sampling of Petroleum and Petroleum Products, and one of the following test methods for sulfur in petroleum products: ASTM D129-91, ASTM D1552-90, ASTM D2622-94, or ASTM D4294-90 or other equivalent methods after approval of the Department. For each subsequent fuel delivery, the permittee shall maintain a permanent file of the certified fuel sulfur analysis from the fuel vendor. At the request of a Compliance Authority, the permittee shall perform additional sampling and analysis for the fuel sulfur content.

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[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; and 0950111-026-AC, Specific Condition 7.]

A.7. Hours of Operation. The hours of gas turbine operation are not limited (8760 hours per year). However, the gas turbine shall fire distillate oil for no more than 475 hours during any consecutive 12 months.

[Rules 62-4.070(3) and 62-210.200(PTE), F.A.C.; and 0950111-026-AC, Specific Condition 8.]

Emission Limitations and Standards

{Permitting Note: Unless otherwise specified, the averaging times for Specific Conditions Nos. **A.8.**, **A.9.**, and **A.10.** are based on the specified averaging time of the applicable test method.}

- A.8. Nitrogen Oxides (NOx). When firing natural gas, NOx emissions shall not exceed 25 ppmvd @ 15% oxygen and 43.0 pounds per hour as determined by EPA Method 7E and 19 (or EPA Method 20) based on a 4-hour rolling average. When firing distillate oil, NOx emissions shall not exceed 42 ppmvd @ 15% oxygen and 74.0 pounds per hour as determined by EPA Method 7E and 19 (or EPA Method 20) based on a 4-hour rolling average. Determination of the 4-hour rolling average shall be consistent with the requirements in NSPS Subpart GG. [Rule 62-4.070(3), F.A.C.; and 0950111-026-AC, Specific Condition 10.]
- A.9. Carbon Monoxide (CO). When firing natural gas, CO emissions shall not exceed 12.6 pounds per hour as determined by EPA Method 10 and 19 based on an average of three 1-hour test runs. When firing distillate oil, CO emissions shall not exceed 2.4 pounds per hour as determined by EPA Method 10 and 19 based on an average of three 1-hour test runs. {Permitting Note: CO emissions are reduced by the oxidation catalyst. The above standards are equivalent to approximately 31.5 ppmvd @ 15% oxygen for gas firing and 2.3 ppmvd @ 15% oxygen for oil firing. The gas-firing standard is based on operation at only 25% load and a compressor inlet temperature of 30° F. When operating at loads greater than 40%, controlled CO emissions are expected to be 7.8 ppmvd @ 15% oxygen or less.}
 [Rule 62-4.070(3), F.A.C.; and 0950111-026-AC, Specific Condition 9.]
- **A.10.** Opacity. When firing natural gas, the stack exhaust opacity shall not exceed 5% based on a 6-minute average as determined by EPA Method 9 observations. When firing distillate oil, the stack exhaust opacity shall not exceed 10% based on a 6-minute average as determined by EPA Method 9 observations.

[Rule 62-4.070(3), F.A.C.; and 0950111-026-AC, Specific Condition 11.]

{Permitting Note: NESHAP Subpart YYYY also establishes a formaldehyde standard; however, EPA has stayed the effectiveness of this rule until further notice. Emissions of particulate matter and volatile organic compounds are minimized by the firing of natural gas and distillate oil, which are readily combusted at high gas turbine temperatures. In addition, these fuels contain little ash. Emissions of volatile organic compounds are further reduced by the oxidation

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catalyst. Emissions of sulfur dioxide and sulfuric acid mist are also minimized by the use of natural gas and distillate oil, which contain only limited amounts of sulfur.}

Excess Emissions

{Permitting Note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of an NSPS, NESHAP, or Acid Rain program provision.}

A.10.1. Definitions

- a. Excess Emissions are defined as emissions of pollutants in excess of those allowed by any applicable air pollution rule of the Department, or by a permit issued pursuant to any such rule or Chapter 62-4, F.A.C. The term applies only to conditions which occur during startup, shutdown, or malfunction.
- b. Startup is defined as the commencement of operation of any emissions unit which has shut down or ceased operation for a period of time sufficient to cause temperature, pressure, chemical or pollution control device imbalances, which result in excess emissions.
- c. Shutdown is the cessation of the operation of an emissions unit for any purpose.
- d. *Malfunction* is defined as any unavoidable mechanical and/or electrical failure of air pollution control equipment or process equipment or of a process resulting in operation in an abnormal or unusual manner.

[Rule 62-210.200, F.A.C; and 0950111-026-AC, Specific Condition 12.]

A.11. Startup, Shutdown, Malfunction

Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted providing: (1) best operational practices to minimize emissions are adhered to, and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. In case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department or the appropriate Local Program in accordance with Rule 62-4.130, F.A.C. A written report summarizing each malfunction resulting in excess emissions shall be submitted in a quarterly report.

[Rule 62-210.700(1) and (6), F.A.C.; and 0950111-026-AC, Specific Condition 13.]

A.12. Prohibition

Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown, or malfunction shall be prohibited.

[Rule 62-210.700(4), F.A.C.; and 0950111-026-AC, Specific Condition 14.]

A.13. At all times, including periods of startup, shutdown, and malfunction, owners and operators shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with good air pollution control practice for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Administrator which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

[40 CFR 60.11(d)]

A.14. <intentionally left blank>

Monitoring of Operations including Continuous Monitoring Requirements

A.15. NOx CEMS. The permittee shall install, calibrate, maintain, and operate a continuous emissions monitoring system (CEMS) in the exhaust stack to measure and record NOx emissions and flue gas oxygen content in a manner sufficient to demonstrate compliance with the standards specified in this permit. Emissions data shall be recorded by the CEMS at all times including periods such as startup, shutdown, and malfunction.

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- a. NOx Monitor Certification. The NOx monitor shall be installed, certified, operated and maintained in accordance with the applicable requirements of 40 CFR Part 75. For purposes of determining compliance with the emission standards specified by this permit, missing data shall not be substituted. Determination of the 4-hour rolling average shall be consistent with the requirements in NSPS Subpart GG.
- b. Oxygen Monitor Certification. The oxygen monitor shall be installed, certified, operated and maintained in accordance with the applicable requirements of Performance Specification 3 in Appendix B of 40 CFR 60. The monitor shall comply with the applicable quality assurance procedures specified in Appendix F of 40 CFR 60.
- c. Monitor Availability. Monitor availability shall not be less than 95% in any calendar quarter. Within 30 days following each calendar quarter, the permittee shall submit a report to the Compliance Authority summarizing the monitor availability. In the event 95% availability is not achieved, the permittee shall include a supplemental report identifying the problems in achieving 95% availability and a plan of corrective actions that will be taken to achieve 95% availability. The permittee shall implement the reported corrective actions within the next calendar quarter. Failure to achieve 95% availability, in and of itself, is not necessarily a violation of this permit. Failure to take corrective actions or continued failure to achieve the minimum monitor availability shall be violations of this permit.
- d. Data Collection. The CEMS shall be designed and operated to sample, analyze, and record data evenly spaced over a 1-hour block. The CEMS shall be designed and operated to correct emissions to a dry basis. Each 1-hour emission average shall be computed using at least one data point in each fifteen minute quadrant of the 1-hour block during which the unit combusted fuel. Notwithstanding this requirement, each 1-hour emission average shall be computed from at least two data points separated by a minimum of 15 minutes. All valid measurements or data points collected during a 1-hour block shall be used to calculate the 1-hour emission averages.
- e. *Emissions Averages*. The emissions data shall be reduced to 1-hour emissions averages. Compliance with the NOx standards shall be demonstrated based on a 4-hour rolling average of the 1-hour emissions averages consistent with the requirements in NSPS Subpart GG. The NOx CEMS shall express 1-hour emission averages and 4-hour rolling averages in terms of "ppmvd corrected to 15% oxygen". An hour during which any amount of oil is fired shall be attributed to "oil firing". If an operational period includes both gas firing and oil firing, the 4-hour emissions standard shall be prorated based on the emissions standard for each fuel and the number of hours of firing attributed to each fuel. Upon a request from the Compliance Authority, the NOx emission rate shall be corrected to ISO conditions to demonstrate compliance with the applicable standards of 40 CFR 60.332.

For the purpose of recording one-hour NOx averages and four-hour rolling NOx averages in compliance with NSPS Subpart GG (40 CFR 60.332) emissions limits, all valid CEMS NOx emissions data shall be used.

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For the purpose of recording one-hour NOx averages and four-hour rolling NOx averages in compliance with the limits of Specific Condition A.8., NOx average emissions shall be calculated to exclude periods of excess emissions due to startup/shutdown/malfunction (SU/SD/M), provided the permittee remains in compliance with the requirements of Specific Conditions A.10.1., A.11. and A.12. For the purpose of determining and recording periods of excess emissions and calculating and recording NOx average emissions, the following procedures shall be used.

- 1. NOx emissions (including SU/SD/M) will be evaluated and recorded in 1-minute intervals.
- 2. NOx emissions data collected during periods of SU/SD/M (in 1-minute intervals, up to a total of 2 hours in a rolling 24-hour period) will be extracted prior to calculating hourly emission concentrations for determination of compliance with the 4-hour rolling average limit. Only data obtained during the described episode (startup, shutdown, or malfunction) may be excluded. These excluded periods will be identified and recorded as excess emissions (and attributed to SU/SD/M) if the averages of the excluded periods are above the rolling average limits for the particular fuel. This information will be reported in the Quarterly Excess Emissions Reports, along with the time, duration, and average NOx ppmvd, corrected to 15% O₂.
- 3. After the SU/SD/M periods have been extracted (in 1-minute intervals up to a total of 2 hours in a rolling 24-hour period), hourly averages will be calculated for determination of compliance with the NOx emission limit. A valid hourly average must have at least two valid data points at least 15 minutes apart (of non-excluded data); if there is insufficient data, the balance of the clock hour will be ignored.
- 4. Determination of the 4-hour rolling average period begins after the extraction of SU/SD/M data and are determined without regard to calendar days.

{Permitting Note: The term "in 1-minute intervals up to a total of 2 hours in a rolling 24-hour period" is intended to recognize the capabilities of the monitoring system to identify excess emissions for event-driven short term episodes. For example, electrical problems could cause the premature shutdown of water pumps on the NOx control system, which would be restarted by the operator. This might result in 10 minutes of excess emissions due to the malfunction, which could be extracted from the 4-hour compliance average up to a total of 2 hours in a rolling 24-hour period for SU/SD/M. Specifically, this term is not intended to allow the permittee to simply "cherry pick" periods of elevated emissions to extract from the compliance average.}

[Rules 62-4.070(3) and 62-297.520, F.A.C.; 40 CFR 75; and 0950111-026-AC, Specific Condition 20.]

A.16. CMS for Water-to-Fuel Ratio. Using operational data from the continuous monitoring system (CMS) for the water-to-fuel ratio and the NOx CEMS, the permittee shall document the water-to-fuel ratio necessary to comply with the permitted NOx standards throughout the range

of operational loads. Data collected from the required NOx CEMS shall be used to demonstrate compliance with the emissions standards of this permit, including excess emissions with respect to the NSPS Subpart GG standards. However, in cases where the NOx data is invalid or unavailable, documentation of the water-to-fuel ratio shall be used to demonstrate proper operation of the NOx control system. Water-to-fuel ratio data shall only be used as a backup to data collected by the NOx CEMS.

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[Rule 62-4.070(3), F.A.C.; 40 CFR 60 Subpart GG; and 0950111-026-AC, Specific Condition 21.]

A.17. <intentionally left blank>

A.18. The owner or operator of any stationary gas turbine subject to the provisions of 40 CFR 60, Subpart GG, and using water or steam injection to control NO_X emissions shall install, calibrate, maintain and operate a continuous monitoring system to monitor and record the fuel consumption and the ratio of water or steam to fuel being fired in the turbine. [40 CFR 60.334(a)]

A.19. -- **A.21.** <intentionally left blank>

A.22. Determination of Process Variables.

- (a) <u>Required Equipment</u>. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- (b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Continuous Monitoring Requirements

- **A.23.** For the purposes of 40 CFR 60.13, all continuous monitoring systems required under applicable subparts shall be subject to the provisions of 40 CFR 60.13 upon promulgation of performance specifications for continuous monitoring systems under Appendix B of 40 CFR 60 and, if the continuous monitoring system is used to demonstrate compliance with emission limits on a continuous basis, Appendix F of 40 CFR 60, unless otherwise specified in an applicable subpart or by the Administrator. Appendix F is applicable December 4, 1987. [40 CFR 60.13(a)]
- A.24. All continuous monitoring systems (CMS) or monitoring devices shall be installed such that representative measurements of emissions or process parameters from the affected facility are obtained. For CMS other than opacity, 1-hour averages shall be computed from four or more data points equally spaced over each 1-hour period. Data recorded during periods of CMS breakdowns, repairs, calibration checks, and zero span adjustments shall not be included in the data averages computed under this paragraph.

 [40 CFR 60.13(f) and 60.13(h)]

Compliance Assurance Monitoring (CAM) Requirements

A.25. This emissions unit is subject to the CAM requirements contained in the attached Appendix CAM. Failure to adhere to the monitoring requirements specified does not necessarily indicate an exceedance of a specific emissions limitation; however, it may constitute good reason to require compliance testing pursuant to Rule 62-297.310(7)(b), F.A.C. [40 CFR 64; and Rules 62-204.800 and 62-213.440(1)(b)1.a., F.A.C.]

Test Methods and Procedures

A.26. Test Methods. The following methods shall be used to determine emissions and demonstrate compliance with the standards specified in this permit. The methods are defined in Appendix A of 40 CFR 60 and are adopted by reference in Rule 62-204.800, F.A.C. Equivalent methods may only be used after written Department approval.

Method	Description of Method and Comments	
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content	
	{Note: Use as necessary to support other methods.}	
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources	
9	Visual Determination of the Opacity of Emissions from Stationary Sources	
10	Determination of Carbon Monoxide Emissions from Stationary Sources	
	{Note: The method shall be based on a continuous sampling train.}	
. 19	Determination of Sulfur Dioxide Removal Efficiency and Particulate Matter, Sulfur Dioxide, and Nitrogen Oxides Emission Rates	
	{Note: Optional F-factor method may be used to determine flow rate and gas analysis to calculate mass emissions in lieu of Methods 1-4. Use as necessary to support other methods.}	
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines	

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[Rules 62-204.800 and 62-297.100, F.A.C.; 40 CFR 60, Appendix A; and 0950111-026-AC, Specific Condition 16.]

- **A.26.1.** NO_x CEMS. Subsequent to the required initial testing, compliance with the NOx standards shall be demonstrated by using CEMS data. [0950111-026-AC, Specific Condition 17.]
- **A.27.** Nitrogen Oxides. To compute the nitrogen oxides emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent and are approved by the Department to determine the nitrogen content of the fuel being fired.

 [40 CFR 60.335(a)]
- **A.28.** <u>Nitrogen Oxides</u>. The owner or operator shall determine compliance with the nitrogen oxides NSPS standard in 40 CFR 60.332 as follows:
- (1) The nitrogen oxides emission rate (NO_X) shall be computed for each run using the following equation:

$$NO_x = (NO_{xo}) (Pr/Po)^{0.5} e^{19(Ho-0.00633)} (288°K/Ta)^{1.53}$$

where:

 NO_x = emission rate of NO_x at 15 percent O_2 and ISO standard ambient conditions, volume

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percent.

 NO_{XO} = observed NO_X concentration, ppm by volume.

 P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.

 P_0 = observed combustor inlet absolute pressure at test, mm Hg.

 H_0 = observed humidity of ambient air, g H_2O/g air.

e = transcendental constant, 2.718.

 T_a = ambient temperature, °K.

[40 CFR 60.335(b)(1)]

A.29. - A.30. <intentionally left blank>

A.31. Compliance with standards in 40 CFR 60, other than opacity standards, shall be determined by performance tests established by 40 CFR 60.8, unless otherwise specified in the applicable standard.

[40 CFR 60.11(a)]

- **A.32.** Performance tests shall be conducted under such conditions as the Administrator shall specify to the plant operator based on representative performance of the affected facility. The owner or operator shall make available to the Administrator such records as may be necessary to determine the conditions of the performance tests. Operations during periods of startup, shutdown, and malfunction shall not constitute representative conditions for the purpose of a performance test nor shall emissions in excess of the level of the applicable emission limit during periods of startup, shutdown, and malfunction be considered a violation of the applicable emission limit unless otherwise specified in the applicable standard.

 [40 CFR 60.8(c)]
- **A.33.** The owner or operator shall provide, or cause to be provided, stack sampling and performance testing facilities as follows:
- (1) Sampling ports adequate for test methods applicable to such facilities.
- (2) Safe sampling platform(s).
- (3) Safe access to sampling platform(s).
- (4) Utilities for sampling and testing equipment.
- [40 CFR 60.8(e)(1), (2), (3) & (4).]
- **A.34.** Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit.

[Rule 62-297.310(6), F.A.C.]

A.35. Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of

circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

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[Rule 62-297.310(1), F.A.C.]

- **A.36.** Operating Rate During Testing. Testing of emissions shall be conducted with each emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rules 62-297.310(2) & (2)(a), F.A.C.]
- **A.37.** Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

A.38. Applicable Test Procedures.

- (a) Required Sampling Time.
 - 1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
 - 2. Opacity Compliance Tests. When either EPA Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
 - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
- (b) <u>Minimum Sample Volume</u>. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.
- (d) <u>Calibration of Sampling Equipment</u>. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1 (attached). [Rule 62-297.310(4), F.A.C.]
- **A.39.** Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
- (a) General Compliance Testing.
 - 3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual

compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:

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- a. Did not operate; or,
- b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
- 4. During each federal fiscal year (October 1 September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard;
 - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and,
 - c. Each NESHAP pollutant, if there is an applicable emission standard.
- 8. Any combustion turbine that does not operate for more than 400 hours per year shall conduct a visible emissions compliance test once per each five-year period, coinciding with the term of its air operation permit.
- 9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- (b) <u>Special Compliance Tests</u>. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
- (c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply. [Rule 62-297.310(7), F.A.C.; and SIP approved.]
- **A.40.** By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning:
- a. only gaseous fuel(s); or,
- b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or,
- c. only liquid fuel(s) for less than 400 hours per year. [Rule 62-297.310(7)(a)4., F.A.C.]

A.41. Annual Compliance Tests. During each federal fiscal year (October 1st to September 30th), the gas turbine shall be tested to demonstrate compliance with the CO and opacity standards specified in this permit.

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{Permitting Note: No annual test for NOx is required because continuous compliance will be demonstrated by NOx CEMS data (See Specific Condition A.26.1.).}

[Rule and 62-297.310(7)(a)4, F.A.C.; and 0950111-026-AC, Specific Condition 18.]

A.42. Test Reports. In addition to the information required by other specific conditions of this permit, each test report shall indicate the load rate (MW), heat input rate (MMBtu/hour), ambient temperature (° F), compressor inlet temperature (° F), evaporating cooling or not, NOx emissions rate (ppmvd @ 15% oxygen and lb/hour), and the water-to-fuel ratio (lb water/lb fuel) for each test run.

[Rule 62-297.310(8), F.A.C.; and 0950111-026-AC, Specific Condition 19.]

Duct Burner Requirements

- **A.43.** <u>Duct Burner.</u> The existing heat recovery steam generator (HRSG) includes a gas-fired duct burner system. After completion of the gas turbine replacement project, the duct burner shall be fired only in the "fresh air mode", which is defined as duct firing without the gas turbine in operation. The duct burner is subject to the following requirements.
 - a. The duct burner shall not operate when the combustion turbine is firing fuel. Exhaust gas from the duct burner will exit the gas turbine exhaust stack.
 - b. The duct burner shall fire only natural gas (SCC No. 1-01-006-01). The maximum heat input rate is 198 MMBtu per hour, which is equivalent to approximately 190,000 cubic feet per hour based on the higher heating value of natural gas.
 - c. The duct burner shall fire no more than 173,445 MMBtu per year of natural gas during any consecutive 12 months. {Permitting Note: This condition restricts the annual capacity factor of the duct burner to less than 10%. Therefore, the duct burner is not subject to the NOx requirements of NSPS Subpart Db. There are no applicable NSPS Subpart Db emissions standards for the gas-fired duct burner.}
 - d. When firing the duct burner in fresh air mode, the stack opacity shall not exceed 5% based on EPA Method 9 observations.
 - e. Due to the very restricted ability to operate this unit, no initial or periodic opacity tests are required. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department. [Rule 62-297.310(7)(b), F.A.C.]

{Permitting Note: With the upgraded gas turbine, duct firing no longer supports combined cycle operation. Duct firing will only be used as a backup for the gas turbine and hot water generator #3. In this mode, it is also necessary to circulate water and operate the steam turbine generator. Similarly, the duct burner could produce about 4 MW if there was a natural gas curtailment, a system power outage, or both. The electricity would be used for life and property preservation. The oxidation catalyst is operational during fresh air firing.}

[Rules 62-204.800 and 62-210.200(PTE), F.A.C.; 40 CFR 60.41b and 40 CFR 60.44b; and 0950111-026, Specific Condition 22.]

Recordkeeping and Reporting Requirements

A.44. To determine compliance with the oil firing heat input limitation, the permittee shall maintain daily records of fuel oil consumption and hourly usage for the turbine and the average heating value for the fuel oil. Average fuel oil heating rate shall be the calendar year annual average higher heating value of No. 2 fuel oil purchased for the permittee's bulk fuel oil storage facility. All records shall be maintained for a minimum of five (5) years after the date of each record and shall be made available to representatives of the Department upon request. [Rule 62-213.440, F.A.C.]

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- **A.45.** The owner or operator subject to the provisions of 40 CFR 60 shall furnish the Administrator written notification as follows:
- (4) A notification of any <u>physical or operational change</u> to an existing facility which may increase the emission rate of any air pollutant to which a standard applies, unless that change is specifically exempted under an applicable subpart or in 40 CFR 60.14(e). This notice shall be postmarked 60 days or as soon as practicable before the change is commenced and shall include information describing the precise nature of the change, present and proposed emission control systems, productive capacity of the facility before and after the change, and the expected completion date of the change. The Administrator may request additional relevant information subsequent to this notice.

[40 CFR 60.7(a)(4)]

- **A.46.** The owner or operator subject to the provisions of 40 CFR 60 shall maintain records of the occurrence and duration of any startup, shutdown, or malfunction in the operation of an affected facility; any malfunction of the air pollution control equipment; or, any periods during which a continuous monitoring system or monitoring device is inoperative.

 [40 CFR 60.7(b)]
- **A.47.** The owner or operator required to install a continuous monitoring system (CMS) or monitoring device shall submit an excess emissions and monitoring systems performance report and/or a summary report form [see 40 CFR 60.7(d)] to the Administrator semiannually, except when: more frequent reporting is specifically required by an applicable subpart; or, the CMS data are to be used directly for compliance determination, in which case quarterly reports shall be submitted; or, the Administrator, on a case-by-case basis, determines that more frequent reporting is necessary to accurately assess the compliance status of the source. All reports shall be postmarked by the 30th day following the end of each calendar half (or quarter, as appropriate). Written reports of excess emissions shall include the following information:
- (2) Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the affected facility. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted.
- (3) The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments.
- (4) When no excess emissions have occurred or the continuous monitoring system(s) have not been inoperative, repaired, or adjusted, such information shall be stated in the report. [40 CFR 60.7(c)(2), (3), & (4)]
- **A.48.** The summary report form shall contain the information and be in the format shown in Figure 1 (attached) unless otherwise specified by the Administrator. One summary report form shall be submitted for each pollutant monitored at each affected facility.

(1) If the total duration of excess emissions for the reporting period is less than 1 percent of the total operating time for the reporting period and CMS downtime for the reporting period is less than 5 percent of the total operating time for the reporting period, only the summary report form shall be submitted and the excess emission report described in 40 CFR 60.7(c) need not be submitted unless requested by the Administrator.

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(2) If the total duration of excess emissions for the reporting period is 1 percent or greater of the total operating time for the reporting period or the total CMS downtime for the reporting period is 5 percent or greater of the total operating time for the reporting period, the summary report form and the excess emission report described in 40 CFR 60.7(c) shall both be submitted. [40 CFR 60.7(d)(1) & (2)]

{See attached Figure 1: Summary Report-Gaseous and Opacity Excess Emission and Monitoring System Performance} (electronic file name: figure 1.doc)

- **A.49.** (1) Notwithstanding the frequency of reporting requirements specified in 40 CFR 60.7(c), an owner or operator who is required by an applicable subpart to submit excess emissions and monitoring systems performance reports (and summary reports) on a quarterly (or more frequent) basis may reduce the frequency of reporting for that standard to semiannual if the following conditions are met:
 - (i) For 1 full year (e.g., 4 quarterly or 12 monthly reporting periods) the affected facility's excess emissions and monitoring systems reports submitted to comply with a standard under this part continually demonstrate that the facility is in compliance with the applicable standard;
 - (ii) The owner or operator continues to comply with all recordkeeping and monitoring requirements specified in 40 CFR 60, Subpart A, and the applicable standard; and,
 - (iii) The Administrator does not object to a reduced frequency of reporting for the affected facility, as provided in 40 CFR 60.7(e)(2). The frequency of reporting of excess emissions and monitoring systems performance (and summary) reports may be reduced only after the owner or operator notifies the Administrator in writing of his or her intention to make such a change and the Administrator does not object to the intended change. In deciding whether to approve a reduced frequency of reporting, the Administrator may review information concerning the source's entire previous performance history during the required recordkeeping period prior to the intended change, including performance test results, monitoring data, and evaluations of an owner or operator's conformance with operation and maintenance requirements. Such information may be used by the Administrator to make a judgment about the source's potential for noncompliance in the future. If the Administrator disapproves the owner or operator's request to reduce the frequency of reporting, the Administrator will notify the owner or operator in writing within 45 days after receiving notice of the owner or operator's intention. The notification from the Administrator to the owner or operator will specify the grounds on which the disapproval is based. In the absence of a notice of disapproval within 45 days, approval is automatically granted.
- (3) As soon as monitoring data indicate that the affected facility is not in compliance with any emission limitation or operating parameter specified in the applicable standard, the frequency of reporting shall revert to the frequency specified in the applicable standard, and the owner or operator shall submit an excess emissions and monitoring systems performance report (and summary report, if required) at the next appropriate reporting period following the noncomplying event. After demonstrating compliance with the applicable standard for another full year, the owner or operator may again request approval from the Administrator to reduce the frequency of reporting for that standard as provided for in 40 CFR 60.7(e)(1) & (e)(2).

 [40 CFR 60.7(e)(1)]

A.50. The owner or operator subject to the provisions of 40 CFR 60 shall maintain a file of all measurements, including continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; adjustments and maintenance performed on these systems or devices; and, all other information required by 40 CFR 60 recorded in a permanent form suitable for inspection. The file shall be retained for at least **5** (**five**) years following the date of such measurements, maintenance, reports, and records. [40 CFR 60.7(f); and, Rule 62-213.440(1)(b)2.b., F.A.C.]

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A.51. <intentionally left blank>

A.52. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the following information:
 - 1. The type, location, and designation of the emissions unit tested.
 - 2. The facility at which the emissions unit is located.
 - 3. The owner or operator of the emissions unit.
 - 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 - 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 - 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 - 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 - 8. The date, starting time and duration of each sampling run.
 - 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
 - 10. The number of points sampled and configuration and location of the sampling plane.
 - 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
 - 12. The type, manufacturer and configuration of the sampling equipment used.
 - 13. Data related to the required calibration of the test equipment.
 - 14. Data on the identification, processing and weights of all filters used.
 - 15. Data on the types and amounts of any chemical solutions used.
 - 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
 - 17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
 - 18. All measured and calculated data required to be determined by each applicable test procedure for each run.

- 19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
- 20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.

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21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

[Rules 62-213.440 and 62-297.310(8), F.A.C.]

- **A.53.** Reports under 40 CFR 60.7(c) are required for periods of NO_X excess emissions, which are defined in Specific Condition **A.10.1.** [40 CFR 60.334.]
- **A.54.** <intentionally left blank>
- **A.55.** <u>HRSG</u>. The owner or operator of an affected facility (HRSG) subject to the nitrogen oxides standards under 40 CFR 60.44b shall maintain records of the following information for each steam generating unit operating day:
- (1) Calendar date. [40 CFR 60.49b(g)(1)]

RECORDS

- **A.56.** Monitoring of Operations. To demonstrate compliance with the gas turbine capacity requirements, the permittee shall monitor and record the operating rate of the gas turbine on a daily average basis, considering the number of hours of operation during each day (including the times of startup, shutdown and malfunction). Such monitoring shall be made using a monitoring component of the CEMS required above, or by monitoring daily rates of consumption and heat content of natural gas in accordance with the provisions of 40 CFR 75 Appendix D. [Rules 62-4.070(3), F.A.C.; and 09050111-026-AC, Specific Condition 23.]
- A.57. Operational Data. Within 10 days following each month, the permittee shall record the following information in a written log maintained on site: combustion turbine (MMcf of gas fired, hours of gas firing, gallons of oil fired, hours of oil firing, and hours of oil firing during last consecutive 12 months); and duct burner (hours of gas firing). [Rule 62-4.070(3), F.A.C.; and 0950111-026-AC, Specific Condition 24.]
- **A.58.1.** Catalyst Reports. Based on data collected during the calendar year, the permittee shall provide a report summarizing the present condition of the catalyst. The report shall be submitted along with the required Annual Operating Report.

[Rule 62-4.070(3), F.A.C.; and 0950111-026-AC, Specific Condition 25.]

- **A.58.2.** Catalyst Activity. The CO emission test results shall be used to verify the proper operation and condition of the catalyst. [Rule 62-213.440(1), F.A.C.]
- **A.59.** Quarterly NOx Report. Within 30 days following each calendar quarter, the permittee shall submit a report summarizing the following: NOx monitor performance (downtime, availability, and a corrective plan if necessary; cause of each downtime; unusual maintenance or

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repair; and a summary of any RATA tests performed) and excess emissions (each 4-hour NOx average in excess of the permitted NOx standard in this permit; the number of startups, shutdowns, and malfunctions resulting in excess emissions; and the written report summarizing each malfunction resulting in excess emissions).

[Rules 62-4.070(3), 62-4.130, and 62-210.700(6), F.A.C.; and 0950111-026-AC, Specific Condition 26.]

Section III. Emissions Units.

Subsection B. This section addresses the following emissions units.

E.U./Facility I.D.	Brief Description	Manufacturer	Model
North Service Area Laundry			
-020/LBB-1a	Laundry Boiler #1	York-Shipley	300HP
-021/LBB-1b	Laundry Boiler #2	York-Shipley	300HP
-022/LBB-1c	Laundry Boiler #3	York-Shipley	350HP
Disney's Boardwalk Resort			
-090/BDW-1	Boiler	Cleaver Brooks	CBE-700-250
-090/BDW-2	Boiler	Cleaver Brooks	CBE-700-250

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{Permitting Notes: The laundry boilers are subject to 40 CFR 60, Subpart Dc, Standards of Performance for Small Industrial-Commercial-Institutional Steam Generating Units; and, the other boilers are regulated under Rule 62-296.406, F.A.C., Fossil Fuel Steam Generators With Less Than 250 MMBtu Per Hour Heat Input.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. The maximum operation rates are as follows:

E.U./Facility I.D.	Brief Description	Permitted Capacity		
North Service Area Laundry	North Service Area Laundry			
		MMBtu/hr Heat Input		
-020/LBB-1a	Laundry Boiler #1	39.6 (total: #1, #2 & #3)		
-021/LBB-1b	Laundry Boiler #2	39.6 (total: #1, #2 & #3)		
-022/LBB-1c	Laundry Boiler #3	39.6 (total: #1, #2 & #3)		
Disney's Boardwalk Resort				
		MMBtu/hr Heat Input		
-090/BDW-1	Boiler	10.46		
-090/BDW-2	Boiler	10.46		

{Permitting Note: The heat input limitation has been placed in the permit to identify the capacity of the emissions unit for purposes of confirming that emissions testing is conducted within 90-100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate limits and to aid in determining future rule applicability.}

[Rule 62-210.200(PTE); AC48-271849; and, 0950111-005-AV]

- **B.2.** Emissions Unit Operating Rate Limitation After Testing. See specific condition **B.11**. [Rule 62-297.310(2), F.A.C.; and, 0950111-005-AV]
- **B.3.** Methods of Operation Fuels. For the North Service Area Laundry and Disney's Boardwalk Resort boilers, the only fuel allowed to be fired is natural gas. [Rules 62-296.406(2) & (3), F.A.C.; AC48-271849; and, 0950111-005-AV]
- **B.4.** Hours of Operation. The emissions units may operate continuously, i.e., 8760 hours/year. [Rule 62-210.200(PTE), F.A.C.; and, 0950111-005-AV]

Emission Limitations and Standards

{Permitting Note: Unless otherwise specified, the averaging time for Specific Condition **B.5.** is based on the specified averaging time of the applicable test method.}

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- **B.5.** Visible Emissions. See Specific Condition **B.10**.
- a. Visible emissions from each laundry boiler shall not exceed 5% opacity.
- b. Visible emissions from each Boardwalk Resort boiler shall not exceed 20% opacity, except for one 6-minute period per hour during which opacity shall not exceed 27%. [Rules 62-296.406(1) and 62-296.320(4)(b)1., F.A.C.; AC48-271849; and, 0950111-005-AV]
- **B.6.** Particulate Matter and Sulfur Dioxide. From the steam boilers, particulate matter and sulfur dioxide emissions shall be controlled by the firing of natural gas. [Rule 62-296.406(2) & (3), F.A.C.; and, 0950111-005-AV]

Excess Emissions

{Permitting Note: The Excess Emissions Rule at Rule 62-210.700, F.A.C., cannot vary any requirement of an NSPS, NESHAP, or Acid Rain program provision.}

- **B.7.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- **B.8.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

B.9. Determination of Process Variables.

- (a) <u>Required Equipment</u>. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- (b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

- **B.10.** Visible emissions. See specific condition **B.5.**
- a. For the laundry boilers, the diesel electric generators, and the Boardwalk Resort boilers, the test method shall be EPA Method 9, in accordance with Chapter 62-297, F.A.C.

- b. The visible emissions shall be conducted for 60-minutes for each boiler. [Rules 62-213.440, 62-296.320(4)(b)4., and 62-297.401, F.A.C.; and, 0950111-005-AV]
- **B.11.** Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity. [Rules 62-297.310(2) & (2)(b), F.A.C.]

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B.12. Applicable Test Procedures.

- (a) Required Sampling Time.
 - 2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
 - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

[Rule 62-297.310(4)(a)2.c., F.A.C.]

- **B.13.** Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
- (a) General Compliance Testing.
 - 3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - a. Did not operate; or
 - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
 - 4. During each federal fiscal year (October 1 September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard (see specific condition **B.14.**);
 - 9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

(b) <u>Special Compliance Tests</u>. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.

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- (c) Waiver of Compliance Test Requirements. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply. [Rule 62-297.310(7), F.A.C.; and, SIP approved]
- **B.14.** By this permit, annual emissions compliance testing for visible emissions is not required for these emissions units while burning (see specific condition **B.13.(a)4.a.**):
- a. only gaseous fuel(s); or
- b. gaseous fuel(s) in combination with any amount of liquid fuel(s) for less than 400 hours per year; or
- c. only liquid fuel(s) for less than 400 hours per year. [Rule 62-297.310(7)(a)4., F.A.C.]

Recordkeeping and Reporting Requirements

B.15. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

B.16. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed. [Rule 62-297.310(8), F.A.C.]
- **B.17.** For each emissions unit, the permittee shall maintain a monthly log of the hours operated and the amount of fuel fired.

[Rules 62-4.070 and 62-213.440, F.A.C.; and, 0950111-005-AV]

B.18. The type of fuel and the heat input to each emissions unit shall be included on the visible emissions test report.

[Rule 62-213.440, F.A.C.; and, 0950111-005-AV]

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B.19. The owner or operator of each affected emissions unit (laundry boilers) shall record and maintain records of the amounts of natural gas combusted during each day. The records shall be retained for a period of at least five years following the date of such record. [40 CFR 60.48c(g) & (h); and, Rule 62-213.440, F.A.C.]

Section III. Emissions Units.

Subsection C. This section addresses the following emissions units.

E.U./Facility I.D.	Brief Description	Manufacturer	Model
EPOCH Central Energy	<u> Plant</u>		
-079/(EPCOT DG-1)	Diesel Electric Generator #1 (2.5 MW)	Stewart & Stevenson	S-20-645-E4B
-080/(EPCOT DG-2)	Diesel Electric Generator #2 (2.5 MW)	Stewart & Stevenson	S-20-645-E4B

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These emissions units are identical 3,600 horsepower (hp) large bore diesel engines, with each one equipped with a 2.5 megawatt generator, Model TBGZHJ. The units were constructed in 1986. Each generator provides peak demand reduction and emergency standby power. Each emissions unit is permitted to fire new No. 2 distillate fuel oil only.

[Permitting Note: The diesel electric generators were issued permits pursuant to Rule 62-210.300, Permits Required.}

{Permitting Note: These engines are 'existing compression ignition (CI) stationary RICE' units under the RICE MACT 40 CFR 63 Subpart ZZZZ. Therefore, this MACT does not apply.}

The following specific conditions apply to the emissions units listed above:

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum operation rates are as follows:

E.U./Facility I.D.	Brief Description	Permitted Capacity
Reedy Creek Improvement District		megawatts/hr
-079/(EPCOT DG-1)	Diesel Electric Generator #1 (2.5 MW)	2.5
-080/(EPCOT DG-2)	Diesel Electric Generator #2 (2.5 MW)	2.5

{Permitting Note: The megawatt limitation has been placed in the permit to identify the capacity of the emissions unit for purposes of confirming that emissions testing is conducted within 90-100 percent of the emissions unit's rated capacity (or to limit future operation to 110 percent of the test load), to establish appropriate limits and to aid in determining future rule applicability.}

[Rule 62-210.200(PTE), F.A.C.; and, 0950111-005-AV]

- **C.2.** Emissions Unit Operating Rate Limitation After Testing. See specific condition **C.18**. [Rule 62-297.310(2), F.A.C.]
- **C.3.** Methods of Operation Fuels. The only fuel allowed to be fired is new No. 2 distillate fuel oil.

[Rule 62-213.410, F.A.C.; and, 0950111-005-AV]

C.4. <u>Hours of Operation</u>. Each emissions unit is allowed to operate 1900 hrs/yr. [Rule 62-210.200(PTE), F.A.C.; and, 0950111-005-AV]

Emission Limitations and Standards

{Permitting Note: Unless otherwise specified, the averaging times for Specific Conditions C.5. and C.6. are based on the specified averaging time of the applicable test method.}

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C.5. Visible Emissions.

a. Visible emissions from each diesel electric generator shall be less than 20 percent opacity. [Rule 62-296.320(4)(b)1., F.A.C.; and, 0950111-016-AC]

C.6. The allowable pollutant emissions from each diesel electric generator shall not exceed the following:

¿Pöllutant	lbs/hr 🥻	TPY
Particulate Matter	10.0	9.5
Sulfur Dioxide	14.5	14.0
Nitrogen Oxides	126.0	126.0
Carbon Monoxide	2.9	2.8
Volatile Organic Compounds	2.1	2.0

[0950111-005-AV]

C.7. <u>Sulfur Dioxide - Sulfur Content</u>. The sulfur content of the new No. 2 distillate fuel oil shall not exceed 0.5%, by weight. Firing low sulfur fuel oil negates the need to conduct any SO₂ mass emissions tests. See Specific Conditions C.11. and C.15. [0950111-005-AV]

Excess Emissions

- **C.8.** Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]
- **C.9.** Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Monitoring of Operations

C.10. Determination of Process Variables.

- (a) Required Equipment. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- (b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

C.11. Monitoring - Fuel Oil. The fuel oil shall be analyzed each time fuel oil is transferred to the storage tank. In lieu of conducting sampling and analysis at the time of each delivery of new fuel oil, the permittee can accept a fuel oil analysis from the vendor upon each delivery and the records shall be retained for a minimum of 5 years. See specific conditions **C.7.** and **C.15**. [Rule 62-213.440, F.A.C.; and, 0950111-005-AV]

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Test Methods and Procedures

- C.12. Visible emissions.
- a. For the diesel electric generators, the test method shall be EPA Method 9 in accordance with Chapter 62-297, F.A.C.

[Rules 62-296.320(4)(b)4. and 62-297.401, F.A.C.; and, 0950111-005-AV]

- **C.13.** Particulate Matter. EPA Method 5 shall be used to demonstrate compliance with particulate matter emissions limit in accordance with Chapter 62-297, F.A.C., if the visible emissions are equal to or greater than 20% opacity. If a test is required, then a visible emissions test shall be conducted concurrently with each particulate matter emissions test. [Rule 62-297.401, F.A.C.; and, 0950111-005-AV]
- C.14. Nitrogen Oxides (NO_X). Annually, EPA Method 20 shall be used to demonstrate compliance with the NO_X emissions limit in accordance with Chapter 62-297, F.A.C. A visible emissions test shall be conducted concurrently with each NO_X emissions test. [Rule 62-297.401, F.A.C.; and, 0950111-005-AV]
- C.15. The fuel sulfur content, percent by weight, for liquid fuels shall be evaluated using either ASTM D2622-92, ASTM D4294-90, both ASTM D4057-88 and ASTM D129-91, or the latest edition. See specific conditions C.7. and C.11. [Rules 62-213.440 and 62-297.440, F.A.C.; and, 0950111-005-AV]
- **C.16.** Carbon Monoxide. The firing of low sulfur fuel oil and proper operation of the emissions units negates the need to conduct a mass emissions test for carbon monoxide. [Rule 62-297.310(7), F.A.C.; and, 0950111-005-AV]
- **C.17.** <u>Volatile Organic Compounds</u>. The firing of low sulfur fuel oil and proper operation of the emissions units negates the need to conduct a mass emissions test for volatile organic compounds.

[Rule 62-297.310(7), F.A.C.; and, 0950111-005-AV]

C.18. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operation at permitted capacity, which is defined as 90 to 100 percent of the maximum operation rate allowed by the permit. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity; in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted. Once the emissions unit is so limited, operation at higher capacities is allowed for no more than 15 consecutive days for the purpose of additional compliance testing to regain the authority to operate at the permitted capacity.

[Rules 62-297.310(2) & (2)(b), F.A.C.]

C.19. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

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C.20. Applicable Test Procedures.

- (a) Required Sampling Time.
 - 1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
 - 2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:
 - c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.
- (b) <u>Minimum Sample Volume</u>. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.
- (c) <u>Required Flow Rate Range</u>. For EPA Method 5 particulate sampling, acid mist/sulfur dioxide, and fluoride sampling which uses Greenburg Smith type impingers, the sampling nozzle and sampling time shall be selected such that the average sampling rate will be between 0.5 and 1.0 actual cubic feet per minute, and the required minimum sampling volume will be obtained.
- (d) <u>Calibration of Sampling Equipment</u>. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1 (attached).
- (e) Allowed Modification to EPA Method 5. When EPA Method 5 is required, the following modification is allowed: the heated filter may be separated from the impingers by a flexible tube. [Rule 62-297.310(4), F.A.C.]
- **C.21.** Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit. [Rule 62-297.310(6), F.A.C.]
- **C.22.** Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required. (a) General Compliance Testing.
 - 3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - a. Did not operate; or

b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.

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- 4. During each federal fiscal year (October 1 September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard;
 - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to emit: 5 tons per year or more of lead or lead compounds measured as elemental lead; 30 tons per year or more of acrylonitrile; or 100 tons per year or more of any other regulated air pollutant; and,
 - c. Each NESHAP pollutant, if there is an applicable emission standard.
- 5. An annual compliance test for particulate matter emissions shall not be required for any fuel burning emissions unit that, in a federal fiscal year, does not burn liquid fuel, other than during startup, for a total of more than 400 hours.
- 9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- (b) <u>Special Compliance Tests</u>. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
- (c) <u>Waiver of Compliance Test Requirements</u>. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply. [Rule 62-297.310(7), F.A.C.; and, SIP approved]
- C.23. Annual and permit renewal compliance testing for particulate matter emissions is not required for these emissions units while burning only liquid fuel(s) for less than 400 hours per year. See specific conditions C.22.(a)3., 4., & 5. [Rules 62-297.310(7)(a)3. & 5., F.A.C.; and, ASP Number 97-B-01.]

Record keeping and Reporting Requirements

C.24. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

C.25. Test Reports.

(a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.

- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the following information:
 - 1. The type, location, and designation of the emissions unit tested.
 - 2. The facility at which the emissions unit is located.
 - 3. The owner or operator of the emissions unit.
 - 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 - 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.
 - 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
 - 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.
 - 8. The date, starting time and duration of each sampling run.
 - 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
 - 10. The number of points sampled and configuration and location of the sampling plane.
 - 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
 - 12. The type, manufacturer and configuration of the sampling equipment used.
 - 13. Data related to the required calibration of the test equipment.
 - 14. Data on the identification, processing and weights of all filters used.
 - 15. Data on the types and amounts of any chemical solutions used.
 - 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
 - 17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
 - 18. All measured and calculated data required to be determined by each applicable test procedure for each run.
 - 19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
 - 20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
 - 21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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

C.26. For each emissions unit, the permittee shall maintain a log of the hours operated and the amount of fuel fired.

[Rules 62-4.070 and 62-213.440, F.A.C.]

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C.27. The amount of fuel fired and the megawatt output from each emissions unit shall be included on the visible emissions test report.

[Rule 62-213.440, F.A.C.; and, 0950111-016-AC]

Section III. Emissions Unit(s) and Conditions.

Subsection E. This section addresses the following emissions unit.

E.U. ID No./Facility ID No.	Brief Description
-112/DAK-1	Disney's Animal Kingdom Animal Crematory: Necropsy
	Building

This emissions unit is an animal crematory, a Crawford Model CD800 Animal Carcass Incinerator, located at Disney's Animal Kingdom, specifically at the Necropsy Building.

{Permitting Notes: This emissions unit is subject to the requirements of Rule 62-296.401(6), F.A.C., Animal Crematories. This emissions unit is considered a 'new' unit for purposes of Rule 62-296.401(6)(c), F.A.C.}

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Essential Potential to Emit (PTE) Parameters

E.1. Permitted Capacity.

- a. The emissions unit's processing capacity shall not exceed 800 lbs per four-hour period (equivalent to 200 lbs/hr); and,
- b. The emissions unit's maximum heat input shall not exceed 3.0 MMBtu/hr while firing only natural gas.

[Rules 62-4.070, 62-4.160(2), 62-296.401(6), and 62-297.310(2)(b), F.A.C.]

E.2. Hours of Operation. The emissions unit is allowed to operate continuously, i.e., 8760 hours per year.

[Rule 62-210.200, Definitions - Potential to Emit (PTE), F.A.C.]

E.3. Methods of Operation - Fuels. The only fuel authorized to be burned is natural gas. [Rules 62-4.160(2) and 62-210.200 (PTE), F.A.C.]

Emission Limitations and Standards

{Permitting Note: Unless otherwise specified, the averaging times for Specific Condition **E.4.** are based on the specified averaging time of the applicable test method.}

- **E.4.** The following specific conditions are from Rule 62-296.401(6), F.A.C. and the original numbering is maintained:
- 1. Visible emissions shall not exceed five percent (5%) opacity, six (6) minute average, except that visible emissions not exceeding fifteen percent (15%) opacity shall be allowed for up to six (6) minutes in any one (1) hour period.
- 2. Particulate matter emissions shall not exceed 0.080 grains per dry standard cubic foot of flue gas, corrected to 7% O2.
- 3. Carbon Monoxide (CO) emissions shall not exceed 100 parts per million by volume, dry basis, corrected to 7% O2 on an hourly average basis.

[Rule 62-296.401(6)(b), F.A.C.]

Excess Emissions

E.5. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized but in no case exceed two hours in any 24-hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.]

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E.6. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(4), F.A.C.]

Operations

- **E.7.** Operating Temperatures. The following specific conditions are from Rule 62-296.401(6), F.A.C. and the original numbering is maintained:
- 1. The owner or operator shall provide design calculations to confirm a sufficient volume in the secondary chamber combustion zone to provide for at least a 1.0 second gas residence time at 1800 degrees Fahrenheit. The actual operating temperature of the secondary chamber combustion zone shall be no less than 1600 degrees Fahrenheit throughout the combustion process in the primary chamber. The primary chamber and stack volumes shall not be used in calculating this residence time. Except as provided in subparagraph 62-296.401(6)(c)2., F.A.C., cremation in the primary chamber shall not begin unless the secondary chamber combustion zone temperature is equal to or greater than 1600 degrees Fahrenheit.
- 2. [Not applicable.] [Rule 62-296.401(6)(c), F.A.C.]
- **E.8.** Allowed Materials. Animal crematory units shall cremate only animal remains and, if applicable, the bedding associated with the animals and appropriate containers. Containers shall contain no more than 0.5 percent by weight chlorinated plastics as demonstrated by the manufacturer's data sheet. If containers are incinerated, documentation from the manufacturers certifying that they are composed of 0.5 percent or less by weight chlorinated plastics shall be kept on-file at the site for the duration of their use and for at least five (5)* years after their use. Animal crematory units shall not cremate dead animals which were used for medical or commercial experimentation. No other material, including biomedical waste¹ as defined in Rule 62-210.200, F.A.C., shall be incinerated.
 - ¹ "Biomedical Waste": Any solid waste or liquid waste which may present a threat of infection to humans, including nonliquid tissue, body parts, blood, blood products, and body fluids from humans and other primates; laboratory and veterinary wastes which contain human disease-causing agents; and, discarded sharps. The following are also included:
 - (a) Used absorbent materials saturated with blood, blood products, body fluids, or excretions or secretions contaminated with visible blood; and, absorbent materials saturated with blood or blood products that have dried.
 - (b) Non-absorbent, disposable devices that have been contaminated with blood, body fluids, or secretions or excretions visibly contaminated with blood, but have not been treated by a method listed in Section 381.0098, F.S., or a method approved pursuant to Rule 64E-16, F.A.C.

[Rule 62-296.401(6)(d), F.A.C. and *Rule 62-213.440(1)(b)2.b., F.A.C.]

E.9. Equipment Maintenance. All animal crematory units shall be maintained in proper working order in accordance with the manufacturer's specifications to ensure the integrity and efficiency of the equipment. If a crematory unit contains a defect that affects the integrity of the unit, the unit shall be taken out of service. No person shall use or permit the use of that unit until it has been repaired or adjusted. Repair records on all crematory units shall be maintained onsite for at least five (5) years*. A written plan with 12 operating procedures for startup, shutdown and malfunction of each crematory unit shall be maintained and followed during those events. Each unit's burners shall be operated with a proper air-to-fuel ratio. If the unit so allows, the burners' flame characteristics shall be visually checked at least once during each operating shift and adjusted when warranted by the visual checks.

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[Rule 62-296.401(6)(e), F.A.C. and *Rule 62-213.440(1)(b)2.b., F.A.C.]

Monitoring of Operations

E.10. Determination of Process Variables.

- (a) <u>Required Equipment</u>. The owner or operator of an emissions unit for which compliance tests are required shall install, operate, and maintain equipment or instruments necessary to determine process variables, such as process weight input or heat input, when such data are needed in conjunction with emissions data to determine the compliance of the emissions unit with applicable emission limiting standards.
- (b) Accuracy of Equipment. Equipment or instruments used to directly or indirectly determine process variables, including devices such as belt scales, weight hoppers, flow meters, and tank scales, shall be calibrated and adjusted to indicate the true value of the parameter being measured with sufficient accuracy to allow the applicable process variable to be determined within 10% of its true value.

[Rule 62-297.310(5), F.A.C.]

Test Methods and Procedures

E.11. Test Methods and Procedures. The following specific conditions are from Rule 62-296.401(6), F.A.C. and the original numbering is maintained:

All emissions tests performed pursuant to the requirements of this subsection shall comply with the following requirements. All EPA reference test methods are described in 40 CFR Part 60, Appendix A, adopted and incorporated by reference at Rule 62-204.800, F.A.C.

- 1. The reference test method for visible emissions shall be EPA Method 9.
- 2. The reference test method for carbon monoxide shall be EPA Method 10.
- 3. The reference test method for oxygen shall be EPA Method 3.
- 4. The reference test method for particulate matter emissions shall be EPA Method 5. The minimum sample volume shall be thirty (30) dry standard cubic feet.
- 5. Test procedures shall conform to the procedures specified in Rule 62-297.310, F.A.C. All test results shall be reported to the Department in accordance with the provisions of Rule 62-297.310, F.A.C.

[Rule 62-296.401(6)(f), F.A.C.]

E.12. Operation During Emissions Test. Testing of emissions shall be conducted with the unit operating at a capacity that is representative of normal operations and is not greater than the manufacturer's recommended capacity. The operating capacity shall be a batch load, in pounds, for a batch animal crematory unit and a charging rate, in pounds per hour, for a ram-charged animal crematory unit.

[Rule 62-296.401(6)(g), F.A.C.]

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E.13. The incinerator must be tested in its normal operating mode. In order for the permittee to be allowed to incinerate bedding, bags, or containers, these items shall be incinerated in normal amounts along with the animal remains during the compliance test burns. An incinerator which burns only animal remains during the compliance tests shall be permitted to incinerate only animal remains until a test determines compliance while incinerating bedding, bags, or containers along with the animal remains.

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[Rule 62-4.070(3), F.A.C. and Permit No. 0950111-027-AV]

- **E.14.** Frequency of Testing. The following specific conditions are from Rule 62-296.401(6), F.A.C. and the original numbering is maintained:
- 1. [Not applicable.]
- 2. The owner or operator shall have a performance test conducted for visible emissions annually.
- 3. The owner or operator of any animal crematory unit with a capacity of less than 500 pounds per hour shall not be required to have performance tests conducted for carbon monoxide and particulate matter, except as provided at paragraph 62-297.310(7)(b), F.A.C.
- 4. [Not applicable.] [Rule 62-296.401(6)(h), F.A.C.]
- **E.15.** Required Number of Test Runs. For mass emission limitations, a compliance test shall consist of three complete and separate determinations of the total air pollutant emission rate through the test section of the stack or duct and three complete and separate determinations of any applicable process variables corresponding to the three distinct time periods during which the stack emission rate was measured provided, however, that three complete and separate determinations shall not be required if the process variables are not subject to variation during a compliance test, or if three determinations are not necessary in order to calculate the unit's emission rate. The three required test runs shall be completed within one consecutive five day period. In the event that a sample is lost or one of the three runs must be discontinued because of circumstances beyond the control of the owner or operator, and a valid third run cannot be obtained within the five day period allowed for the test, the Secretary or his or her designee may accept the results of the two complete runs as proof of compliance, provided that the arithmetic mean of the results of the two complete runs is at least 20 percent below the allowable emission limiting standards.

[Rule 62-297.310(1), F.A.C.]

E.16. Calculation of Emission Rate. The indicated emission rate or concentration shall be the arithmetic average of the emission rate or concentration determined by each of the separate test runs unless otherwise specified in a particular test method or applicable rule. [Rule 62-297.310(3), F.A.C.]

E.17. Applicable Test Procedures.

- (a) Required Sampling Time.
 - 1. Unless otherwise specified in the applicable rule, the required sampling time for each test run shall be no less than one hour and no greater than four hours, and the sampling time at each sampling point shall be of equal intervals of at least two minutes.
 - 2. Opacity Compliance Tests. When either EPA Method 9 or DEP Method 9 is specified as the applicable opacity test method, the required minimum period of observation for a compliance test shall be sixty (60) minutes for emissions units which emit or have the potential to emit 100 tons per year or more of particulate matter, and thirty (30) minutes for emissions units which have potential emissions less than 100 tons per year of particulate matter and are not subject to a multiple-valued opacity standard. The opacity test

observation period shall include the period during which the highest opacity emissions can reasonably be expected to occur. Exceptions to these requirements are as follows:

c. The minimum observation period for opacity tests conducted by employees or agents of the Department to verify the day-to-day continuing compliance of a unit or activity with an applicable opacity standard shall be twelve minutes.

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- (b) <u>Minimum Sample Volume</u>. Unless otherwise specified in the applicable rule, the minimum sample volume per run shall be 25 dry standard cubic feet.
- (d) <u>Calibration of Sampling Equipment</u>. Calibration of the sampling train equipment shall be conducted in accordance with the schedule shown in Table 297.310-1 (attached). [Rule 62-297.310(4), F.A.C.]
- **E.18.** Required Stack Sampling Facilities. When a mass emissions stack test is required, the permittee shall comply with the requirements contained in Appendix SS-1, Stack Sampling Facilities, attached to this permit. [Rule 62-297.310(6), F.A.C.]
- **E.19.** Frequency of Compliance Tests. The following provisions apply only to those emissions units that are subject to an emissions limiting standard for which compliance testing is required.
- (a) General Compliance Testing.
 - 3. The owner or operator of an emissions unit that is subject to any emission limiting standard shall conduct a compliance test that demonstrates compliance with the applicable emission limiting standard prior to obtaining a renewed operation permit. Emissions units that are required to conduct an annual compliance test may submit the most recent annual compliance test to satisfy the requirements of this provision. In renewing an air operation permit pursuant to Rule 62-210.300(2)(a)3.b., c., or d., F.A.C., the Department shall not require submission of emission compliance test results for any emissions unit that, during the year prior to renewal:
 - a. Did not operate; or,
 - b. In the case of a fuel burning emissions unit, burned liquid fuel for a total of no more than 400 hours.
 - 4. During each federal fiscal year (October 1 September 30), unless otherwise specified by rule, order, or permit, the owner or operator of each emissions unit shall have a formal compliance test conducted for:
 - a. Visible emissions, if there is an applicable standard;
 - b. Each of the following pollutants, if there is an applicable standard, and if the emissions unit emits or has the potential to 100 tons per year or more of any other regulated air pollutant
 - 9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.
- (b) <u>Special Compliance Tests</u>. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it may require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit and to provide a report on the results of said tests to the Department.
- (c) <u>Waiver of Compliance Test Requirements</u>. If the owner or operator of an emissions unit that is subject to a compliance test requirement demonstrates to the Department, pursuant to the procedure established in Rule 62-297.620, F.A.C., that the compliance of the emissions unit with

an applicable weight emission limiting standard can be adequately determined by means other than the designated test procedure, such as specifying a surrogate standard of no visible emissions for particulate matter sources equipped with a bag house or specifying a fuel analysis for sulfur dioxide emissions, the Department shall waive the compliance test requirements for such emissions units and order that the alternate means of determining compliance be used, provided, however, the provisions of Rule 62-297.310(7)(b), F.A.C., shall apply. [Rule 62-297.310(7), F.A.C.; and, SIP approved]

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Continuous Monitoring Requirements

E.20. Continuous Monitoring Requirements. Each animal crematory unit shall be equipped and operated with a continuous monitor to record temperature at the point or beyond where 1.0 second gas residence time is obtained in the secondary chamber combustion zone in accordance with the manufacturer's instructions. A complete file of all temperature measurements; all continuous monitoring system, monitoring device, and performance testing measurements; all continuous monitoring system performance evaluations; all continuous monitoring system or monitoring device calibration checks; and all adjustments, preventive maintenance, and corrective maintenance performed on these systems or devices, shall be recorded in a permanent legible form available for inspection. Continuous temperature monitoring documentation shall include operator name, operator indication of when cremation in the primary chamber was begun, date, time, and temperature markings. Pollutant monitoring system documentation shall include indication of when the opacity measurement system was cleaned and checked for proper operation in accordance with the manufacturer's recommended maintenance schedule. The file shall be retained for at least five (5)* years following the recording of such measurements, maintenance, reports, and records.

[Rule 62-296.401(6)(i), F.A.C. and *Rule 62-213.440(1)(b)2.b., F.A.C.]

Reports and Recordkeeping.

E.21. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the Department in accordance with Rule 62-4.130, F.A.C. A full written report on the malfunctions shall be submitted in a quarterly report, if requested by the Department. [Rule 62-210.700(6), F.A.C.]

E.22. Test Reports.

- (a) The owner or operator of an emissions unit for which a compliance test is required shall file a report with the Department on the results of each such test.
- (b) The required test report shall be filed with the Department as soon as practical but no later than 45 days after the last sampling run of each test is completed.
- (c) The test report shall provide sufficient detail on the emissions unit tested and the test procedures used to allow the Department to determine if the test was properly conducted and the test results properly computed. As a minimum, the test report, other than for an EPA Method 9 test, shall provide the following information:
 - 1. The type, location, and designation of the emissions unit tested.
 - 2. The facility at which the emissions unit is located.
 - 3. The owner or operator of the emissions unit.
 - 4. The normal type and amount of fuels used and materials processed, and the types and amounts of fuels used and material processed during each test run.
 - 5. The means, raw data and computations used to determine the amount of fuels used and materials processed, if necessary to determine compliance with an applicable emission limiting standard.

- 6. The type of air pollution control devices installed on the emissions unit, their general condition, their normal operating parameters (pressure drops, total operating current and GPM scrubber water), and their operating parameters during each test run.
- 7. A sketch of the duct within 8 stack diameters upstream and 2 stack diameters downstream of the sampling ports, including the distance to any upstream and downstream bends or other flow disturbances.

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- 8. The date, starting time and duration of each sampling run.
- 9. The test procedures used, including any alternative procedures authorized pursuant to Rule 62-297.620, F.A.C. Where optional procedures are authorized in this chapter, indicate which option was used.
- 10. The number of points sampled and configuration and location of the sampling plane.
- 11. For each sampling point for each run, the dry gas meter reading, velocity head, pressure drop across the stack, temperatures, average meter temperatures and sample time per point.
- 12. The type, manufacturer and configuration of the sampling equipment used.
- 13. Data related to the required calibration of the test equipment.
- 14. Data on the identification, processing and weights of all filters used.
- 15. Data on the types and amounts of any chemical solutions used.
- 16. Data on the amount of pollutant collected from each sampling probe, the filters, and the impingers, are reported separately for the compliance test.
- 17. The names of individuals who furnished the process variable data, conducted the test, analyzed the samples and prepared the report.
- 18. All measured and calculated data required to be determined by each applicable test procedure for each run.
- 19. The detailed calculations for one run that relate the collected data to the calculated emission rate.
- 20. The applicable emission standard, and the resulting maximum allowable emission rate for the emissions unit, plus the test result in the same form and unit of measure.
- 21. A certification that, to the knowledge of the owner or his authorized agent, all data submitted are true and correct. When a compliance test is conducted for the Department or its agent, the person who conducts the test shall provide the certification with respect to the test procedures used. The owner or his authorized agent shall certify that all data required and provided to the person conducting the test are true and correct to his knowledge.

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

Section III. Emissions Unit(s) and Conditions.

Subsection F. This section addresses the following emissions unit.

E.U. ID No./Facility ID No.	Brief Description
-120	Three Diesel Electric Generators Serving the DISC
	Building

Both the annual fuel quantity used and percent sulfur, by weight, in the fuel oil are limited for this emissions unit. The nameplate rating of each generator is 1.75 megawatts (MW) and 2,550 BHP (brake horsepower). The manufacturer is Spectrum Detroit Diesel. The model number is 1750DS-4. The generators were installed in November 26, 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. Air Construction Permit 0950111-022-AC reclassified the unit to regulated status, allowing increased operational flexibility for the facility.

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{Permitting Note: These engines are 'existing compression ignition (CI) stationary RICE' units under the RICE MACT 40 CFR 63 Subpart ZZZZ. Therefore, this MACT does not apply.}

Operational Requirements

F.1. 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.; and 0950111-023-AC, Specific Condition A.11.]

F.2. 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 225,000 gallons per year. [Rule 62-4.070(3), F.A.C.; and 0950111-023-AC, Specific Condition A.12.]

Testing, Compliance Determination, and Reporting

- **F.3.** 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.

{Permitting note: Evaluation of the fuel sulfur content required by this specific condition may be provided by using the fuel vendor's bill of lading for each fuel delivery.} [Rules 62-4.070(3), 62-213.440 and 62-297.440, F.A.C.; and 0950111-023-AC, Specific Condition A.14.]

- **F.4.** 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 **F.3.**

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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.; and 0950111-023-AC, Specific Condition A.15.]

Section III. Emissions Unit(s) and Conditions.

Subsection G. This section addresses the following emissions unit.

E.U./Facility I.D.	Brief Description 4	Manufacturer
North Service Area Dry Cleaning Plant		
-121	Dry Cleaning Machine	Columbia T.D. Mach 2 80-
	_	80 Dry Cleaning Machine

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A Columbia T.D. Mach 2 80-80 dry cleaning machine replaced the previously permitted Multimatic Atlas 45 dry cleaning machine, which had been listed in the facility's prior Title V Permit No. 0950111-027-AV as emissions unit 1 (E.U. ID No. -001). The new machine is a closed loop design, i.e., there are no stack emissions or other discrete emissions points. Air emissions are expected to occur only as a result of fugitive emissions.

The new machine is considered a "4th generation" dry cleaning machine which will utilize a carbon adsorber and refrigerated condenser to reclaim perchloroethylene (PCE) and is a closed loop system with no stack emissions. PCE is routed through the unit and is recycled until it is no longer usable, at which point it will be disposed of as still bottom residue. No PCE will be emitted except as fugitive emissions, which will be minimized by following EPA-prescribed leak detection and repair procedures. A 2005 study by the EPA Office of Air Quality Planning and Standards (OAPQS) found, among other findings, that PCE fugitive emissions from this type of dry cleaning machine should average 0.0085 pounds per ton of clothes cleaned (Perchloroethylene Dry Cleaners Refined Human Health Risk Characterization, Neal Fann, Risk and Exposure Assessment Group, OAQPS, November, 2005). At the maximum production rate for this machine (twenty-four 160-pound loads per day), maximum expected PCE fugitive emissions will be approximately 6 pounds per year.

{Permitting Note(s): The perchloroethylene dry cleaning operation is subject to 40 CFR 63, Subpart M, National Perchloroethylene Air Emission Standards for Dry Cleaning Facilities.}

The following specific conditions apply to the emissions units listed above:

Standards

- **G.1.** The following specific conditions are from NESHAP 40 CFR 63.322 and the original numbering is maintained:
 - (a) [Not applicable.]
 - (b) The owner or operator of each new dry cleaning system:
 - (1) Shall route the air-perchloroethylene gas-vapor stream contained within each dry cleaning machine through a refrigerated condenser or an equivalent control device;
 - (c) The owner or operator shall close the door of each dry cleaning machine immediately after transferring articles to or from the machine, and shall keep the door closed at all other times.
 - (d) The owner or operator of each dry cleaning system shall operate and maintain the system according to the manufacturers' specifications and recommendations.
 - (e) Each refrigerated condenser used for the purposes of complying with paragraph (a) or (b) of this section and installed on a dry-to-dry machine, dryer, or reclaimer:

(1) Shall be operated to not vent or release the air-perchloroethylene gas-vapor stream contained within the dry cleaning machine to the atmosphere while the dry cleaning machine drum is rotating;

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- (2) Shall be monitored according to § 63.323(a)(1); and
- (3) Shall prevent air drawn into the dry cleaning machine when the door of the machine is open from passing through the refrigerated condenser.
- (f) Each refrigerated condenser used for the purpose of complying with paragraph (a) of this section and installed on a washer:
 - (1) Shall be operated to not vent the air-perchloroethylene gas-vapor contained within the washer to the atmosphere until the washer door is opened;
 - (2) Shall be monitored according to § 63.323(a)(2); and
 - (3) Shall not use the same refrigerated condenser coil for the washer that is used by a dry-to-dry machine, dryer, or reclaimer.
- (g) Each carbon adsorber used for the purposes of complying with paragraphs (a) or (b) of this section:
 - (1) Shall not be bypassed to vent or release any air-perchloroethylene gas-vapor stream to the atmosphere at any time; and
 - (2) Shall be monitored according to the applicable requirements in § 63.323 (b) or (c).
 - (i) The owner or operator of an affected facility shall drain all cartridge filters in their housing, or other sealed container, for a minimum of 24 hours, or shall treat such filters in an equivalent manner, before removal from the dry cleaning facility.
 - (j) The owner or operator of an affected facility shall store all PCE and wastes that contain PCE in solvent tanks or solvent containers with no perceptible leaks. The exception to this requirement is that containers for separator water may be uncovered, as necessary, for proper operation of the machine and still.
- (h) [Not applicable.]
- (i) [Not applicable.]
- (i) [Not applicable.]
- (k) The owner or operator of a dry cleaning system shall inspect the system weekly for perceptible leaks while the dry cleaning system is operating. Inspection with a halogenated hydrocarbon detector or PCE gas analyzer also fulfills the requirement for inspection for perceptible leaks. The following components shall be inspected:
 - (1) Hose and pipe connections, fittings, couplings, and valves;
 - (2) Door gaskets and seatings;
 - (3) Filter gaskets and seatings;
 - (4) Pumps;
 - (5) Solvent tanks and containers;
 - (6) Water separators;
 - (7) Muck cookers;
 - (8) Stills;
 - (9) Exhaust dampers;
 - (10) Diverter valves; and
 - (11) All filter housings.
- (l) [Not applicable.]
- (m) The owner or operator of a dry cleaning system shall repair all leaks detected under paragraph (k) or (o)(1) of this section within 24 hours. If repair parts must be ordered, either a written or verbal order for those parts shall be initiated within 2 working days of detecting such a leak. Such repair parts shall be installed within 5 working days after receipt.
- (n) If parameter values monitored under paragraphs (e), (f), or (g) of this section do not meet the values specified in §63.323(a), (b), or (c), adjustments or repairs shall be made to the dry cleaning system or control device to meet those values. If repair parts must be ordered, either

a written or verbal order for such parts shall be initiated within 2 working days of detecting such a parameter value. Such repair parts shall be installed within 5 working days after receipt.

- (o) Additional requirements:
 - (1) The owner or operator of a dry cleaning system shall inspect the components listed in paragraph (k) of this section for vapor leaks monthly while the component is in operation.

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- (i) Area sources shall conduct the inspections using a halogenated hydrocarbon detector or PCE gas analyzer that is operated according to the manufacturer's instructions. The operator shall place the probe inlet at the surface of each component interface where leakage could occur and move it slowly along the interface periphery.
- (ii) [Not applicable.]
- (iii) Any inspection conducted according to this paragraph shall satisfy the requirements to conduct an inspection for perceptible leaks under Sec. 63.322(k) or (l) of this subpart.
- (2) The owner or operator of each dry cleaning system installed after December 21, 2005, at an area source shall route the air-PCE gas-vapor stream contained within each dry cleaning machine through a refrigerated condenser and pass the air-PCE gas-vapor stream from inside the dry cleaning machine drum through a nonvented carbon adsorber or equivalent control device immediately before the door of the dry cleaning machine is opened. The carbon adsorber must be desorbed in accordance with manufacturer's instructions.

[40 CFR 63.322]

Test Methods and Monitoring

- **G.2.** The following specific conditions are from NESHAP 40 CFR 63.323 and the original numbering is maintained:
 - (a) When a refrigerated condenser is used to comply with § 63.322(a)(1) or (b)(1):
 - (1) The owner or operator shall monitor the following parameters, as applicable, on a weekly basis:
 - (i) The refrigeration system high pressure and low pressure during the drying phase to determine if they are in the range specified in the manufacturer's operating instructions.
 - (ii) If the machine is not equipped with refrigeration system pressure gauges, the temperature of the air-perchloroethylene gas-vapor stream on the outlet side of the refrigerated condenser on a dry-to-dry machine, dryer, or reclaimer with a temperature sensor to determine if it is equal to or less than 7.2 [deg]C (45 [deg]F) before the end of the cool-down or drying cycle while the gas-vapor stream is flowing through the condenser. The temperature sensor shall be used according to the manufacturer's instructions and shall be designed to measure a temperature of 7.2 [deg]C (45 [deg]F) to an accuracy of 1.1 [deg]C (2 [deg]F).
 - (2) The owner or operator shall calculate the difference between the temperature of the air
 - perchloroethylene gas vapor stream entering the refrigerated condenser on a washer and the temperature of the air-perchloroethylene gas vapor stream exiting the refrigerated condenser on the washer weekly to determine that the difference is greater than or equal to 11.1 °C (20 °F).
 - (i) Measurements of the inlet and outlet streams shall be made with a temperature sensor. Each temperature sensor shall be used according to the manufacturer's

instructions, and designed to measure at least a temperature range from 0 °C (32 °F) to 48.9 °C (120 °F) to an accuracy of \pm 1.1 °C (\pm 2 °F).

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- (ii) The difference between the inlet and outlet temperatures shall be calculated weekly from the measured values.
- (b) [Not applicable.]
- (c) If the air-PCE gas vapor stream is passed through a carbon adsorber prior to machine door opening to comply with Sec. 63.322(b)(3) or Sec. 63.322(o)(2), the owner or operator of an affected facility shall measure the concentration of PCE in the dry cleaning machine drum at the end of the dry cleaning cycle weekly with a colorimetric detector tube or PCE gas analyzer to determine that the PCE concentration is equal to or less than 300 parts per million by volume. The owner or operator shall:
 - (1) Use a colorimetric detector tube or PCE gas analyzer designed to measure a concentration of 300 parts per million by volume of PCE in air to an accuracy of 75 parts per million by volume; and
 - (2) Use the colorimetric detector tube or PCE gas analyzer according to the manufacturer's instructions; and
 - (3) Conduct the weekly monitoring by inserting the colorimetric detector or PCE gas analyzer tube into the open space above the articles at the rear of the dry cleaning machine drum immediately upon opening the dry cleaning machine door.
- (d) When calculating yearly perchloroethylene consumption for the purpose of demonstrating applicability according to §63.320, the owner or operator shall perform the following calculation on the first day of every month:
 - (1) Sum the volume of all perchloroethylene purchases made in each of the previous 12 months, as recorded in the log described in § 63.324(d)(1).
 - (2) If no perchloroethylene purchases were made in a given month, then the perchloroethylene consumption for that month is zero gallons.
 - (3) The dates when the dry cleaning system components are inspected for leaks, as specified in Sec. 63.322(k), (l), or (o)(1), and the name or location of dry cleaning system components where leaks are detected.

[40 CFR 63.323]

Recordkeeping and Reporting Requirements

- **G.3.** The following specific conditions are from NESHAP 40 CFR 63.324 and the original numbering is maintained:
 - (a) Each owner or operator of a dry cleaning facility shall submit an initial report signed by a responsible official before a notary public certifying that the information provided in the initial report is accurate and true to the Administrator within 90 calendar days after September 22, 1993, which includes the following:
 - (1) The name and address of the owner or operator;
 - (2) The address (that is, physical location) of the dry cleaning facility;
 - (3) A brief description of the type of each dry cleaning machine at the dry cleaning facility;
 - (4) Documentation as described in § 63.323(d) of the yearly perchloroethylene consumption at the dry cleaning facility for the previous year to demonstrate applicability according to § 63.320; or an estimation of perchloroethylene consumption for the previous year to estimate applicability with § 63.320; and
 - (5) The date and temperature sensor monitoring results, as specified in Sec. 63.323 if a refrigerated condenser is used to comply with Sec. 63.322(a), (b), or (o); and
 - (6) The date and monitoring results, as specified in Sec. 63.323, if a carbon adsorber is used to comply with Sec. 63.322(a)(2), (b)(3), or (o)(2).

(b) Each owner or operator of a dry cleaning facility shall submit a statement signed by a responsible official in the presence of a notary public to the Administrator by registered letter on or before the 30th day following the compliance dates specified in § 63.320 (b) or (c), certifying the following:

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- (1) The yearly perchloroethylene solvent consumption limit based upon the yearly solvent consumption calculated according to § 63.323(d);
- (2) Whether or not they are in compliance with each applicable requirement of § 63.322; and
 - (3) All information contained in the statement is accurate and true.
- (c) Each owner or operator of an area source dry cleaning facility that exceeds the solvent consumption limit certified in paragraph (b) of this section shall submit a statement signed by a responsible official in the presence of a notary public to the Administrator by registered letter on or before the 30th day following the compliance dates specified in § 63.320(f) or (i), certifying the following:
 - (1) The new yearly perchloroethylene solvent consumption limit based upon the yearly solvent consumption calculated according to § 63.323(d);
- (2) Whether or not they are in compliance with each applicable requirement of § 63.322; and
 - (3) All information contained in the statement is accurate and true.
- (d) Each owner or operator of a dry cleaning facility shall keep receipts of perchloroethylene purchases and a log of the following information and maintain such information on site and show it upon request for a period of 5 years:
 - (1) The volume of perchloroethylene purchased each month by the dry cleaning facility as recorded from perchloroethylene purchases; if no perchloroethylene is purchased during a given month then the owner or operator would enter zero gallons into the log;
 - (2) The calculation and result of the yearly perchloroethylene consumption determined on the first day of each month as specified in § 63.323(d);
 - (3) The dates when the dry cleaning system components are inspected for perceptible leaks, as specified in §63.322(k) or (l), and the name or location of dry cleaning system components where perceptible leaks are detected;
 - (4) The dates of repair and records of written or verbal orders for repair parts to demonstrate compliance with §63.322(m) and (n);
 - (5) The date and temperature sensor monitoring results, as specified in § 63.323 if a refrigerated condenser is used to comply with § 63.322(a) or (b); and
 - (6) The date and colorimetric detector tube monitoring results, as specified in § 63.323, if a carbon adsorber is used to comply with § 63.322(a)(2) or (b)(3).
- (e) Each owner or operator of a dry cleaning facility shall retain onsite a copy of the design specifications and the operating manuals for each dry cleaning system and each emission control device located at the dry cleaning facility.
- (f) Each owner or operator of a dry cleaning facility shall submit to the Administrator or delegated State authority by registered mail on or before July 28, 2008, a notification of compliance status providing the following information and signed by a responsible official who shall certify its accuracy:
 - (1) The name and address of the owner or operator;
 - (2) The address (that is, physical location) of the dry cleaning facility;
 - (3) If they are located in a building with a residence(s), even if the residence is vacant at the time of this notification;
- (4) If they are located in a building with no other tenants, leased space, or owner occupants;
 - (5) Whether they are a major or area source;

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- (6) The yearly PCE solvent consumption based upon the yearly solvent consumption calculated according to Sec. 63.323(d);
- (7) Whether or not they are in compliance with each applicable requirement of Sec. 63.322; and
 - (8) All information contained in the statement is accurate and true.

[40 CFR 63.324]

Section IV. This section is the Acid Rain Part.

Operated by: Walt Disney World Co.

Plant Name: Reedy Creek

ORIS code: 7254

Subsection A. This subsection addresses Acid Rain, Phase II.

The emissions unit listed below is regulated under Phase II of the Federal Acid Rain Program.

E.U. ID No.	Brief Description
	Reedy Creek Improvement District
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator

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- **A.1.** The Phase II permit application submitted for this facility, as approved by the Department, is a part of this permit. The owners and operators of these Phase II acid rain units must comply with the standard requirements and special provisions set forth in the application listed below:
 - a. DEP Form No. 62-210.900(1)(a), version dated 06/16/03, signed by the Designated Representative on 06/27/07, and received by the Department on 06/29/07.

[Chapter 62-213, F.A.C. and Rule 62-214.320, F.A.C.]

A.2. Sulfur dioxide (SO2) allowance allocations requirements for each Acid Rain unit are as follows:

E.U. ID No.	EPA ID 🐭	Year	2008	2009	×/2010	2011	2012
-088*	32432 a.k.a CT/HRSG 1	SO2 allowan ces, under Table 2 of 40 CFR Part 73	60* rule**	60* rule**	60* rule**	60* rule**	60* rule**

- * The number of allowances held by an Acid Rain source in a unit account may differ from the number allocated by the USEPA under Table 2 of 40 CFR 73.
- ** "Rule" denotes that the preceding allocation will be proposed in the upcoming Acid Rain Division rulemaking change. These allowances are unadjusted basis allowances only, unless noted.
- **A.3.** Emission Allowances. Emissions from sources subject to the Federal Acid Rain Program (Title IV) shall not exceed any allowances that the source lawfully holds under the Federal Acid Rain Program. Allowances shall not be used to demonstrate compliance with a non-Title IV applicable requirement of the Act.
- 1. No permit revision shall be required for increases in emissions that are authorized by allowances acquired pursuant to the Federal Acid Rain Program, provided that such increases do not require a permit revision pursuant to Rule 62-213.400(3), F.A.C.
- 2. No limit shall be placed on the number of allowances held by the source under the Federal Acid Rain Program.
- 3. Allowances shall be accounted for under the Federal Acid Rain Program. [Rule 62-213.440(1)(c), F.A.C.]
- **A.4.** Fast-Track Revisions of Acid Rain Parts. Those Acid Rain sources making a change described at Rule 62-214.370(4), F.A.C., may request such change as provided in Rule 62-213.413, F.A.C.

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Walt Disney World Resort Complex

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[Rules 62-213.413 and 62-214.370(4), F.A.C.]

A.5. Where an applicable requirement of the Act is more stringent than an applicable requirement of regulations promulgated under Title IV of the Act, both provisions shall be incorporated into the permit and shall be enforceable by the Administrator.

[40 CFR 70.6(a)(1)(ii); and, Rule 62-210.200, Definitions - Applicable Requirements, F.A.C.]

Appendix U-1, List of Unregulated Emissions Units and/or Activities.

Walt Disney World Company Walt Disney World Resort Complex FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

<u>Unregulated Emissions Units and/or Activities</u>. An emissions unit which emits no "emissions-limited pollutant" and which is subject to no unit-specific work practice standard, though it may be subject to regulations applied on a facility-wide basis (e.g., unconfined emissions, odor, general opacity) or to regulations that require only that it be able to prove exemption from unit-specific emissions or work practice standards.

Brief Description of Emissions Units and/or Activities:

- A. <u>Commercial/Institutional External Combustion Boilers: Natural Gas Fired</u>. These units are used to heat water.
 - 1. Disney's All-Star Resort (-113): ASR-2 thru ASR-108.
 - 2. Disney's Dixie Landings Resort (-xxx): DLR-1 thru DLR-25.
 - 3. Disney's Port Orleans Resort (-xxx): POR-1 thru POR-16.
 - 4. Disney's Polynesian Resort (-xxx): PR-1 thru PR-4, PR-6 thru PR-9, PR-11 & PR-12.
 - 5. Disney's Typhoon Lagoon (-xxx): TL-1 thru TL-3.
 - 6. Disney's Wilderness Lodge (-xxx): WLR-1 & WLR-2.
 - 7. Disney's Yacht and Beach Club (-xxx): YBC-1 & YBC-2.
 - 8. Disney's Grand Floridian Hotel (-035): GFR-2 thru GFR-18.
 - 9. Disney-MGM Studio Tours (-053): STB-1, STB-2A, STB-3 thru STB-8.
 - 10. Disney's Blizzard Beach (-083): BB-1 thru BB-5.
 - 11. Disney's Boardwalk Resort (-091): BDW-3 thru BDW-10.
 - 12. Disney's Magic Kingdom (-092): MK-3.
 - 13. Disney's Animal Kingdom (-103): DAKU-1 thru DAKU-51.
 - 14. Disney's Coronado Springs Resort (-095): COS-1 thro COS-37.
- B. <u>Commercial/Institutional External Combustion Boilers: Natural/L.P. Gas Fired</u>. These units are used to heat water.
 - 1. Disney-MGM Studio Tours (-053): STB-2B1 & STB-2B2 (replaced HWG STB-2B).
- C. <u>Commercial/Institutional External Combustion Boiler: Primarily fired on Natural Gas or Propane (New No. 2 distillate fuel oil is used for back-up purposes)</u>. These units are used to heat water.
 - 1. Reedy Creek Improvement District (-076): EPCOT HWG-1 thru -3.
- D. <u>Commercial/Institutional External Combustion Boiler: Primarily fired on Natural Gas (New No. 2 distillate fuel oil is used for back-up purposes)</u>. This unit is used to heat water.
 - 1. Reedy Creek Improvement District (-081): CEP-2.
- E. <u>Commercial/Institutional External Combustion Boilers: Natural Gas Fired Only</u>. This unit is used to make steam for the operation of the features of the "Tree of Life" and has a heat input rating of 1.075 MMBtu/hr.
 - 1. Disney's Animal Kingdom "Tree of Life" Boiler (-115): DAKU-52.
- F. <u>Administration Area Laundry (-072)</u>. There are two natural gas fired thermal fluid heaters (LAU-1 & LAU-2). They are manufactured by Fulton Thermal Corporation and the Model No. is FT-C 1000. The combined heat input is 26 MMBtu/hr.
- G. <intentionally left blank>

H. <u>Paint Spray Booths</u>. The following paint spray booth (PSB) operations are VOC emitters from the use of coatings, paints, thinners, and clean-up solvents. The permittee maintains accountability of VOC usage through a material balance scheme. All of the PSBs are equipped with paint arrestor type filters to control particulate matter and visible emissions. All hazardous wastes will be disposed pursuant to RCRA and Chapter 62-730, F.A.C. Also, NSA-7 has an associated natural gas fired curing oven.

E.U./Facility I.D.	Brief Description
North Service Area Boa	t Maintenance and Painting Facility
-006/NSA-18	NSA Boat Maintenance PSB
North Service Area Cen	tral Shops Building
-007/NSA-1	NSA PSB #1
-007/NSA-2	NSA PSB #2
-007/NSA-3	NSA PSB #3
-007/NSA-4	NSA Metalizing PSB
-007/NSA-5	NSA Staff Shop PSB #1
-007/NSA-6	NSA Staff Shop PSB #2
-007/NSA-7 .	NSA Water Wash Plastisol PSB #1; includes a natural gas fired curing oven
-007/NSA-11	NSA Character Head Spray Box
-007/NSA-12	NSA Artist's Preparation Shop PSB
-007/NSA-14	NSA Paint Shop PSB #6
-007/NSA-15	NSA Central Shop Paint Mixing Stations (7)
-007/NSA-16	NSA Urethane Adhesive Lay-up Workstations (4)
North Service Area Loft	
-014/NSA-8	NSA Lofting Building PSB
North Service Area Cen	tral Shops Building Annex
-015/NSA-9	NSA Paint Shop PSB #4
-015/NSA-10	NSA Paint Shop PSB #5
Disney-MGM Studio	
-061/MGM-10	Studio Craft PSB
Buena Vista Construction	<u>on</u>
-062/BVC-1	PSB
Facilities Services	
-063/LBV-1	PSB #1
-063/LBV-2	PSB #2
<u>Facilities Services</u>	,
-065/ FWR-4	Marketplace PSB
Ft. Wilderness Golf Cou	
-066/FWR-4	PSB

E.U./Facility I.D.	Brief Description
Disney's Yacht & Beach	Club
-067/YBC-3	PSB
EPCOT Center	
-068/EP-1	Maintenance PSB
-068/EP-2	Display PSB
-070/EP-3	Marina PSB
Disney's Magic Kingdor	<u>n</u> .
-075/MK-1	PSB #1
-093/MK-2	PSB #2
Disney's Boardwalk Res	<u>ort</u>
-094/BR-1	PSB #1
Disney's Coronado Sprir	ngs Resort
-102/COS-41	PSB #1
Disney's All Star Resort	
-114/ASR-1	PSB #1
NSA Monorail Building	
-118/NSA-20	Monorail Trains Spray Booth
Disney's Animal Kingdo	om Paint Shop
	D 2 C2

- I. <u>Stand-by/Emergency Generators (-101)</u>. The Walt Disney World Resort Complex operates 166 stand-by/emergency generators that fire new No. 2 distillate diesel fuel oil, natural gas, or LP gas. These generators are assigned to the Walt Disney World Co. operations and to the Reedy Creek Improvement District operations.
- J. <u>Facility-wide Fugitive VOC emissions</u>. There are several large architectural type structures that cannot be coated/painted within an enclosed building, but have to be coated/painted after the structure has been made. Therefore, this subsection covers such type activities. Just as the paint spray booth operations, the permittee maintains accountability of VOC usage through a material balance scheme. All hazardous wastes will be disposed pursuant to RCRA and Chapter 62-730, F.A.C.

K. Miscellaneous.

- 1. Degasifiers
- 2. Equipment used exclusively for space heating
- 3. Fireplaces
- 4. Natural gas gate and compression station, including ordorant addition equipment
- 5. Oil and organic solvent storage tanks >550 gallons
- 6. Parts cleaning and degreasing stations
- 7. Pool heaters <1 MMBtu/hr maximum gross heat output, each
- 8. Portable kerosene space heaters
- 9. Sewage treatment facilities
- 10. Silk screening
- 11. Smokehouse
- 12. Storage tanks <550 gallons
- 13. Water heaters used for comfort heating, <1 MMBtu/hr maximum gross heat output, each
- 14. Twenty-six natural gas-fired laundry dryers @ 32.6 MMBtu/hr total heat input
- L. <u>Temporary Boilers (-xxx)</u>. These units are used only temporarily.
 - 1. 63 MMBtu/hr boiler
 - 2. 30 MMBtu/hr boiler #1
 - 3. 30 MMBtu/hr boiler #2

Appendix I-1, List of Insignificant Emissions Units and/or Activities.

FINAL Permit No.: 0950111-029-AV

Facility ID No.: 0950111

Walt Disney World Company
Walt Disney World Resort Complex

The facilities, emissions units, or pollutant-emitting activities listed in Rule 62-210.300(3)(a), F.A.C., Categorical Exemptions, or that meet the criteria specified in Rule 62-210.300(3)(b)1., F.A.C., Generic Emissions Unit Exemption, are exempt from the permitting requirements of Chapters 62-210, 62-212 and 62-4, F.A.C.; provided, however, that exempt emissions units shall-be subject to any applicable emission limiting standards and the emissions from exempt emissions units or activities shall be considered in determining the potential emissions of the facility containing such emissions units. Emissions units and pollutant-emitting activities exempt from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., shall not be exempt from the permitting requirements of Chapter 62-213, F.A.C., if they are contained within a Title V source; however, such emissions units and activities shall be considered insignificant for Title V purposes provided they also meet the criteria of Rule 62-213.430(6)(b), F.A.C. No emissions unit shall be entitled to an exemption from permitting under Rules 62-210.300(3)(a) and (b)1., F.A.C., if its emissions, in combination with the emissions of other units and activities at the facility, would cause the facility to emit or have the potential to emit any pollutant in such amount as to make the facility a Title V source.

The below listed emissions units and/or activities are considered insignificant pursuant to Rule 62-213.430(6), F.A.C.

Brief Description of Emissions Units and/or Activities:

- 1. Applications of fungicides, herbicides and pesticides.
- 2. Battery charging.
- 3. Blueprint reproduction.
- 4. Brazing, soldering and welding.
- 5. Campfires.
- 6. Compressed air systems, including air compressors and driers.
- 7. Degasifiers.
- 8. Electric drying oven with no air pollutant emissions expected.
- 9. Equipment used exclusively for space heating.
- 10. Equipment used exclusively to sand and shape wood or plastic.
- 11. Fireplaces.
- 12. Fresh water cooling towers.
- 13. Generator venting.
- 14. HVAC and chiller units that are in compliance with Rule 62-213.300(3)(o), F.A.C.
- 15. Inorganic substance storage tanks >550 gallons.
- 16. Kitchen exhaust.
- 17. Laboratory hood vents.
- 18. Latex injection.
- 19. Laundry dryers.
- 20. Lube oil tank vents.
- 21. Lube oil vents associated with rotating equipment.

- 22. Maintenance activity associated with transformers, switches, switchgear processing (including cleaning, changing and venting).
- 23. Natural gas gate and compression station, including odorant addition equipment.
- 24. Natural gas system maintenance.
- 25. Office equipment and office ventilation.
- 26. Oil and organic solvent storage tanks >550 gallons.
- 27. Oil truck unloading equipment.
- 28. Oil/water separators.
- 29. Parts cleaning and degreasing stations, except for those subject to Rule 62-213.300(1)(c),
- F.A.C.
- 30. Pool heaters with less than 1 MMBtu/hr maximum gross heat output each.
- 31. Portable kerosene space heaters.
- 32. Recycling operations, including sorting, compacting and baling.
- 33. Refrigeration systems that are in compliance with Rule 62-213.300(3)(o), F.A.C.
- 34. Routine maintenance and repair activities, except painting.
- 35. Sewage treatment facilities.
- 36. Sewer line vents.
- 37. Silk screening.
- 38. Smokehouse.
- 39. Special effects.
- 40. Stack test sampling equipment.
- 41. Tiki torches.
- 42. Turbine vapor extractor.
- 43. Black-start Generator.
 - 1. This generator has historically fired a total amount of less than 10,000 gallons per year.
- 44. Water heaters used for comfort heating with less than 1 MMBtu/hr maximum gross heat output each:
 - a. <u>Disney's Animal Kingdom</u>. Fifty-three (53) natural gas fired radiant comfort heaters with a gross maximum heat output of less than one million Btu per hour per unit pursuant to Rule 62-210.300(3)(a)4., F.A.C. (DAKE-1 thru DAKE-53)
 - b. Etc
- 45. Not Federally Enforceable. Two (2) petroleum solvent dry cleaning machines with a total solvent consumption of less than 3,250 gallons per year pursuant to Rule 62-210.300(3)(a)18., F.A.C.

Appendix AR-1, Acid Rain.

Walt Disney World Company
Walt Disney World Resort Complex

FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

The emissions unit listed below is regulated under Acid Rain Program, Phase II.

E.U. ID No.	Brief Description
	Reedy Creek Improvement District
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator

The Designated Representative of this acid rain unit applied for a Phase II permit by submitting to the Department a completed "Renewal Acid Rain Part Application" form (DEP Form No. 62-210.900(1)(a) - Form, Effective: 06/16/03) signed by the Designated Representative on 06/29/07.

The submitted form was scanned and is attached in this appendix.

Acid Rain Part Application

For more information, see instructions and refer to 40 CFR 72:30 and 72:31 and Chapter 62-214, F.A.C.

	This submission is	□ New □ R	levised 🚨	Renewal		
STEP 1	The second secon	The second secon	and a second sec	The second secon		2 - 22 - 30 - 30 - 30 - 30 - 30 - 30 - 3
Identify the source by plant name, State, and	Plant Name Reedy Cre	ek	State	ří.	ORIS Code	7254

plant name, State, and ORIS code

STEP 2	æ	.	ୃତ	đ
Enter the unit ID# for every Acid Rain unit at the Acid	Unit-ID#	Unit will hold allowances	New Units	New Units:
Rain source in column "a." For new units, enter the requested information in		in accordance with 40 CFR 72.9(c)(1)	Commence Operation Date	Monitor Certification Deadline
columns "c" and "d."				· New Militar

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Plant Name (from Step 1) Reedy Creek

STEP 3 Read the standard requirements

Acid Rain Part Requirements

- (1) The designated representative of each Acid Rain source and each Acid Rain unit at the source shall:
- (i) Submit a complete Acid Rain part application (including a compliance plan) under 40 CFR part 72 and Rules 62-214 320 and 330 F.A.C.; In accordance with the deadlines specified in Rule 62-214 320 F.A.C. and
 - (ii) Submit in a timely manner any supplemental information that the Department determines is necessary in order to review an Add Rain part application and issue or deny an Acid Rain part;
- The owners and operators of each Acid Rain source and each Acid Rain unit at the source shall.
- (i) Operate the unit in compliance with a complete Acid Rain part application or a superseding Acid Rain part issued by the Department and (ii) Have an Acid Rain Pert.

Monitoring Requirements

- (1) The owners and operators and, to the extent applicable, designated representative of each Acid Rain source and each Acid Rain unit at the source shall comply with the monitoring requirements as provided in 40 CFR part 75, and Rule 82 214 420, F.A.C.

 (2) The emissions measurements recorded and reported in accordance with 40 CFR part 75 shall be used to determine compliance by the unit
- with the Acid Rain emissions limitations and emissions reduction requirements for sulfur dioxide and nitrogen oxides under the Acid Rain
- (3) The requirements of 40 CFR part 75 shall not affect the responsibility of the owners and operators to monitor emissions of other pollutants or other emissions characteristics at the unit under other applicable requirements of the Act and other provisions of the operating permit for the

Suffur Dioxide Requirements

- (1) The owners and operators of each source and each Acid Rain unit at the source shall: (i) Hold allowances, as of the allowance transfer deadline, in the unit's compliance subaccount (after deductions under 40 CFR 73.34(c)), or
 - in the compliance subaccount of another Acid Rain unit at the same source to the extent provided in 40 CFR 73.35(b)(3), not less than the total annual emissions of sulfur dioxide for the previous calendar year from the unit; and (ii) Comply with the applicable Acid Rain emissions limitations for sulfur dioxide:
- Each ton of sulfur dioxide emitted in excess of the Acid Rain emissions limitations for sulfur dioxide shall constitute a separate violation of the
- (3) An Add Rain unit shall be subject to the requirements under paragraph (1) of the sulfur dioxide requirements as follows:
 (I) Starting January 1, 2000, an Add Rain unit under 40 CFR 72.6(a)(2), or
 - (ii) Starting on the later of January 1, 2000 or the deadline for monitor certification under 40 CFR part 75, an Acid Rain unit under 40 CFR 72.6(a)(3).
- (4) Allowances shall be held in, deducted from, or transferred among Allowance Tracking System accounts in accordance with the Acid Rain
- (5) An allowance shall not be deducted in order to comply with the requirements under paragraph (1) of the sulfur dioxide requirements prior to the calendar year for which the allowance was allocated.
- (6) An allowance allocated by the Administrator under the Acid Rain Program is a limited authorization to emit sulfur dioxide in accordance with the Acid Rain Program. No provision of the Acid Rain Program, the Acid Rain part application, the Acid Rain part, or an exemption under 40 CFR 72.7 or 72.8 and no provision of law shall be construed to limit the authority of the United States to terminate or limit such authorization.

 (7) An allowance allocated by the Administrator under the Acid Rain Program does not constitute a property right.

Nitrogen Oxides Requirements: The owners and operators of the source and each Acid Rain unit at the source shall comply with the applicable Acid Rain emissions limitation for nitrogen oxides:

Excess Emissions Requirements

- (1) The designated representative of an Acid Rain unit that has excess emissions in any calendar year shall submit a proposed offset plan, as required under 40 CFR part 77.
- (2) The owners and operators of an Acid Rain unit that has excess emissions in any calendar year shall: (i) Pay without demand the penalty required, and pay upon demand the interest on that penalty, as required by 40 CFR part 77; and (ii) Comply with the terms of an approved offset plan; as required by 40 CFR part 77.

Recordkeeping and Reporting Requirements.

- (1) Unless otherwise provided, the owners and operators of the source and each Acid Rain unit at the source shall keep on site at the source each of the following documents for a period of 5 years from the date the document is created. This period may be extended for cause, at any time prior to the end of 5 years. In writing by the EPA or the Department
 - (i) The certificate of representation for the designated representative for the source and each Acid Rain unit at the source and all documents that demonstrate the truth of the statements in the certificate of representation, in accordance with Rule 62-214 350; FAC; provided that the certificate and documents shall be retained on site at the source beyond such 5-year period until such documents are superseded because of the submission of a new certificate of representation changing the designated representative;
 (ii) All emissions monitoring information, in accordance with 40 CFR part 75, provided that to the extent that 40 CFR part 75 provides for a 3-
 - year period for recordkeeping. the 3-year period shall apply;

 (iii) Copies of all reports, compliance certifications, and other submissions and all records made or required under the Acid Rain Program;
 - and.

Plant Name (from Step 1) Reedy Creek

STEP 3, Cont'd.

Recordkeeping and Reporting Requirements (cont)

- (iv) Copies of all documents used to complete an Acid Rain part application and any other submission under the Acid Rain Program or to demonstrate compliance with the requirements of the Acid Rain Program.
- (2) The designated representative of an Acid Rain source and each Acid Rain unit at the source shall submit the reports and compliance certifications required under the Acid Rain Program, including those under 40 CFR part 72 subpart 1 and 40 CFR part 75.

Liability.

- (1) Any person who knowingly violates any requirement or prohibition of the Acid Rain Program; a complete Acid Rain part application; an Acid Rain part or an exemption under 40 CFR 72.7 or 72.8, including any requirement for the payment of any penalty owed to the United States; shall be subject to enforcement pursuant to section 113(c) of the Act.
- (2)—Any person who knowingly makes a false; material statement in any record; submission, or report under the Acid Rain Program shall be subject to criminal enforcement pursuant to section 113(c) of the Acid and 18 U.S.C. 1001.
- (3). No permit revision shall excuse any violation of the requirements of the Acid Rain Program that occurs prior to the date that the revision takes effect:
- (4). Each Acld Rain source and each Acid Rain unit shall meet the requirements of the Acid Rain Program.
- (5) Any provision of the Acid Rain Program that applies to an Acid Rain source (including a provision applicable to the designated representative of an Acid Rain source) shall also apply to the owners and operators of such source and of the Acid Rain units at the source.
- (6). Any provision of the Acid Rain Program that applies to an Acid Rain unit (including a provision applicable to the designated representative of an Acid Rain unit) shall also apply to the owners and operators of such unit. Except as provided under 40 CFR 72.44 (Phase II repowering extension plans) and 40 CFR 78.11 (NOx averaging plans), and except with regard to the requirements applicable to units with a common stack under 40 CFR part 75 (including 40 CFR 75.16, 75.17, and 75.18), the owners and operators and the designated representative of one Acid Rain unit of the provided in the designated representative and that is located at a source of which they are not owners or operators or the designated representative.
- (7) Each violation of a provision of 40 CFR parts 72, 73, 75, 76, 77, and 78 by an Acid Rain source or Acid Rain unit; or by an owner or operator or designated representative of such source or unit, shall be a separate violation of the Act.

Effect on Other Authorities:

No provision of the Acid Rein Program, an Acid Rain part application, an Acid Rain part, or an exemption under 40 CFR.72.7or 72.8 shall be construed as:

- (1): Except as expressly provided in title IV of the Act, exempting or excluding the owners and operators and; to the extent applicable, the designated representative of an Acid Rain source of Acid Rain unit from compliance with any other provision of the Act, including the provisions of title 1 of the Act relating to applicable National Ambient Air Quality Standards or State Implementation Plans.
- (2) Limiting the number of allowances a unit can hold; provided, that the number of allowances held by the unit shall not affect the source's obligation to comply with any other provisions of the Act;
- (3). Regulring a change of any kind in any State law regulating electric utility rates and charges, affecting any State law regarding such State regulation, including any prudence regulation, or limiting such State regulation, including any prudence review requirements under such State law.
- (4) Modifying the Federal Power Act or affecting the authority of the Federal Energy Regulatory Commission under the Federal Power Act, or,
- (5) Interfering with or impairing any program for competitive bidding for power supply in a State in which such program is established.

STEP 4

Read the certification statement, sign, and date

Certification

I am authorized to make this submission on behalf of the owners and operators of the Acid Rain source or Acid Rain units for which the submission is made. I certify under penalty of law that I have personally examined, and aim familiar with, the statements and information, submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine or imprisonment.

Name Sreve Tucker	
Signature Stem with	Date: 6/29/07

DEP Form No. 62-210,900(1)(a) Form Effective: 06/16/03

Appendix CAM

Compliance Assurance Monitoring

Compliance Assurance Monitoring Requirements (version dated 06/09/05)

Pursuant to Rule 62-213.440(1)(b)1.a., F.A.C., the CAM plans that are included in this appendix contain the monitoring requirements necessary to satisfy 40 CFR 64. Conditions 1. – 17. are generic conditions applicable to all emissions units that are subject to the CAM requirements. Specific requirements related to each emissions unit are contained in the attached tables, as submitted by the applicant and approved by the Department.

40 CFR 64.6 Approval of Monitoring.

- The attached CAM plan(s), as submitted by the applicant, is/are approved for the purposes of satisfying the requirements of 40 CFR 64.3.
 [40 CFR 64.6(a)]
- 2. The attached CAM plan(s) include the following information:
 - (i) The indicator(s) to be monitored (such as temperature, pressure drop, emissions, or similar parameter);
 - (ii) The means or device to be used to measure the indicator(s) (such as temperature measurement device, visual observation, or CEMS); and
- (iii) The performance requirements established to satisfy 40 CFR 64.3(b) or (d), as applicable. [40 CFR 64.6(c)(1)]
- The attached CAM plan(s) describe the means by which the owner or operator will define an exceedance of the permitted limits or an excursion from the stated indicator ranges and averaging periods for purposes of responding to (see CAM Conditions 5. 14.) and reporting exceedances or excursions (see CAM Conditions 15. 16.).
 [40 CFR 64.6(c)(2)]
- The permittee is required to conduct the monitoring specified in the attached CAM plan(s) and shall fulfill the obligations specified in the conditions below (see CAM Conditions 5. 16.).
 [40 CFR 64.6(c)(3)]

40 CFR 64.7 Operation of Approved Monitoring.

- Commencement of operation. The owner or operator shall conduct the monitoring required under this appendix upon the effective date of this Title V permit.
 [40 CFR 64.7(a)]
- 6. <u>Proper maintenance.</u> At all times, the owner or operator shall maintain the monitoring, including but not limited to, maintaining necessary parts for routine repairs of the monitoring equipment.

 [40 CFR 64.7(b)]
- 7. Continued operation. Except for, as applicable, monitoring malfunctions, associated repairs, and required quality assurance or control activities (including, as applicable, calibration checks and required zero and span adjustments), the owner or operator shall conduct all monitoring in continuous operation (or shall collect data at all required intervals) at all times that the pollutant-specific emissions unit is operating. Data recorded during monitoring malfunctions, associated repairs, and

required quality assurance or control activities shall not be used for purposes of this part, including data averages and calculations, or fulfilling a minimum data availability requirement, if applicable. The owner or operator shall use all the data collected during all other periods in assessing the operation of the control device and associated control system. A monitoring malfunction is any sudden, infrequent, not reasonably preventable failure of the monitoring to provide valid data. Monitoring failures that are caused in part by poor maintenance or careless operation are not malfunctions.

[40 CFR 64.7(c)]

8. Response to excursions or exceedances.

- a. Upon detecting an excursion or exceedance, the owner or operator shall restore operation of the pollutant-specific emissions unit (including the control device and associated capture system) to its normal or usual manner of operation as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions. The response shall include minimizing the period of any startup, shutdown or malfunction and taking any necessary corrective actions to restore normal operation and prevent the likely recurrence of the cause of an excursion or exceedance (other than those caused by excused startup or shutdown conditions, if allowed by this permit). Such actions may include initial inspection and evaluation, recording that operations returned to normal without operator action (such as through response by a computerized distribution control system), or any necessary follow-up actions to return operation to within the indicator range, designated condition, or below the applicable emission limitation or standard, as applicable.
- b. Determination of whether the owner or operator has used acceptable procedures in response to an excursion or exceedance will be based on information available, which may include but is not limited to, monitoring results, review of operation and maintenance procedures and records, and inspection of the control device, associated capture system, and the process.

[40 CFR 64.7(d)(1) & (2)].

9. Documentation of need for improved monitoring. If the owner or operator identifies a failure to achieve compliance with an emission limitation or standard for which the approved monitoring did not provide an indication of an excursion or exceedance while providing valid data, or the results of compliance or performance testing document a need to modify the existing indicator ranges or designated conditions, the owner or operator shall promptly notify the permitting authority and, if necessary, submit a proposed modification to the Title V permit to address the necessary monitoring changes. Such a modification may include, but is not limited to, reestablishing indicator ranges or designated conditions, modifying the frequency of conducting monitoring and collecting data, or the monitoring of additional parameters.

[40 CFR 64.7(e)]

40 CFR 64.8 Quality Improvement Plan (QIP) Requirements.

10. Based on the results of a determination made under CAM Condition 8.b., above, the permitting authority may require the owner or operator to develop and implement a QIP. Consistent with CAM Condition 4., an accumulation of exceedances or excursions exceeding 5 percent duration of a pollutant-specific emissions unit's operating time for a reporting period, may require the implementation of a QIP. The threshold may be set at a higher or lower percent or may rely on other criteria for purposes of indicating whether a pollutant-specific emissions unit is being maintained and operated in a manner consistent with good air pollution control practices.

[40 CFR 64.8(a)]

11. Elements of a OIP:

- a. The owner or operator shall maintain a written QIP, if required, and have it available for inspection.
- b. The plan initially shall include procedures for evaluating the control performance problems and, based on the results of the evaluation procedures, the owner or operator shall modify the plan to include procedures for conducting one or more of the following actions, as appropriate:
 - (i) Improved preventive maintenance practices.
 - (ii) Process operation changes.
 - (iii) Appropriate improvements to control methods.
 - (iv) Other steps appropriate to correct control performance.
 - (v) More frequent or improved monitoring (only in conjunction with one or more steps under **CAM Condition 11.b(i)** through (iv), above).

[40 CFR 64.8(b)]

12. If a QIP is required, the owner or operator shall develop and implement a QIP as expeditiously as practicable and shall notify the permitting authority if the period for completing the improvements contained in the QIP exceeds 180 days from the date on which the need to implement the QIP was determined.

[40 CFR 64.8(c)]

- 13. Following implementation of a QIP, upon any subsequent determination pursuant to CAM Condition 8.b., the permitting authority may require that an owner or operator make reasonable changes to the QIP if the QIP is found to have:
 - a. Failed to address the cause of the control device performance problems; or
 - b. Failed to provide adequate procedures for correcting control device performance problems as expeditiously as practicable in accordance with good air pollution control practices for minimizing emissions.

[40 CFR 64.8(d)]

14. Implementation of a QIP shall not excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act.

[40 CFR 64.8(e)]

40 CFR 64.9 Reporting And Recordkeeping Requirements.

15. General reporting requirements.

- a. Commencing from the effective date of this permit, the owner or operator shall submit monitoring reports semi-annually to the permitting authority in accordance with Rule 62-213.440(1)(b)3.a., F.A.C.
- b. A report for monitoring under this part shall include, at a minimum, the information required under Rule 62-213.440(1)(b)3.a., F.A.C., and the following information, as applicable:
 - (i) Summary information on the number, duration and cause (including unknown cause, if applicable) of excursions or exceedances, as applicable, and the corrective actions taken;
 - (ii) Summary information on the number, duration and cause (including unknown cause, if applicable) for monitor downtime incidents (other than downtime associated with zero and span or other daily calibration checks, if applicable); and
 - (iii) A description of the actions taken to implement a QIP during the reporting period as specified in **CAM Conditions 10.** through **14.** Upon completion of a QIP, the owner or operator shall

include in the next summary report documentation that the implementation of the plan has been completed and reduced the likelihood of similar levels of excursions or exceedances occurring.

[40 CFR 64.9(a)]

16. General recordkeeping requirements.

- a. The owner or operator shall comply with the recordkeeping requirements specified in Rule 62-213.440(1)(b)2., F.A.C. The owner or operator shall maintain records of monitoring data, monitor performance data, corrective actions taken, any written quality improvement plan required pursuant to **CAM Conditions 10.** through **14.** and any activities undertaken to implement a quality improvement plan, and other supporting information required to be maintained under this part (such as data used to document the adequacy of monitoring, or records of monitoring maintenance or corrective actions).
- b. Instead of paper records, the owner or operator may maintain records on alternative media, such as microfilm, computer files, magnetic tape disks, or microfiche, provided that the use of such alternative media allows for expeditious inspection and review, and does not conflict with other applicable recordkeeping requirements.

[40 CFR 64.9(b)]

40 CFR 64.10 Savings Provisions.

17. It should be noted that nothing in this appendix shall:

- a. Excuse the owner or operator of a source from compliance with any existing emission limitation or standard, or any existing monitoring, testing, reporting or recordkeeping requirement that may apply under federal, state, or local law, or any other applicable requirements under the Act. The requirements of this appendix shall not be used to justify the approval of monitoring less stringent than the monitoring which is required under separate legal authority and are not intended to establish minimum requirements for the purpose of determining the monitoring to be imposed under separate authority under the Act, including monitoring in permits issued pursuant to title I of the Act. The purpose of this part is to require, as part of the issuance of a permit under Title V of the Act, improved or new monitoring at those emissions units where monitoring requirements do not exist or are inadequate to meet the requirements of this part.
- b. Restrict or abrogate the authority of the Administrator or the permitting authority to impose additional or more stringent monitoring, recordkeeping, testing, or reporting requirements on any owner or operator of a source under any provision of the Act, including but not limited to sections 114(a)(1) and 504(b), or state law, as applicable.
- c. Restrict or abrogate the authority of the Administrator or permitting authority to take any enforcement action under the Act for any violation of an applicable requirement or of any person to take action under section 304 of the Act.

[40 CFR 64.10]

version dated October 5, 2007

Walt Disney World Company Walt Disney World Resort Complex FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

CAM Applicability & Monitoring Approach Notes

The following emissions unit is subject to the CAM provisions for the pollutant(s) indicated:

E.U. ID No.	Brief Description	Pollutant(s) Subject to CAM
	Reedy Creek Improvement District	
-088 (CEP-1)	CCCT with natural gas fired Heat Recovery Steam Generator	CO

These CAM related documents are on file with permitting authority:

a. CAM Plan (Monitoring Approach Submittal) received on July 4, 2007.

For ease of reference the following definitions are cited from 40 CFR 64.1 Definitions (10/03/1997):

Exceedance shall mean a condition that is detected by monitoring that provides data in terms of an emission limitation or standard and that indicates that emissions (or opacity) are greater than the applicable emission limitation or standard (or less than the applicable standard in the case of a percent reduction requirement) consistent with any averaging period specified for averaging the results of the monitoring.

<u>Excursion</u> shall mean a departure from an indicator range established for monitoring under this part, consistent with any averaging period specified for averaging the results of the monitoring.

version dated October 5, 2007

Walt Disney World Company
Walt Disney World Resort Complex

FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

I. <u>Background</u>

A. Emissions Unit

Description: <u>Combined Cycle Combustion Turbine</u>

(Type of emissions point) (CCCT) with a Natural Gas-Fired Duct

Burner-Heat Recovery Steam Generator

Identification:

Facility:

(Emissions point number) -088

Walt Disney World Resort Complex –

(Location) Facility ID 0950111

B. <u>Applicable Regulation, Emission Limits, and Monitoring Requirements</u>

Regulation No.: 40 CFR 60 Subpart GG Air Construction Permit 0950111-026-AC

Pollutant: Carbon monoxide 12.6 lbs/hr or 55.2 tpy when burning

natural gas (Emissions limit)

Pollutant: Carbon monoxide 2.4 lbs/hr or 0.6 tpy when burning fuel oil

(Emissions limit)

C. Control Technology

Catalytic Oxidation System

Carbon monoxide (CO) is controlled or reduced by the use of a catalytic oxidation system, which is effectively a passive control system. The catalyst (stainless steel foil coated with calcined alumina with platinum metal) enhances the chemical reaction between oxygen and carbon monoxide and forms carbon dioxide as the end product. This reaction is greater than 80% efficient at 392° F (200° C) within minutes of gas turbine startup, before power generation begins. The catalyst normally operates at a temperature around 800° F (427° C) with corresponding CO removal efficiencies above 90%. The carbon monoxide removal efficiency increases as temperature increases up to the maximum operating limit of 1250° F (677° C). (Refer to the attached graph in Figure 1, which illustrates the carbon monoxide conversion efficiency at varying temperatures up to 500° C (932° F). This system is designed and certified by the manufacturer to operate while the plant is burning either natural gas or new No. 2 diesel fuel oil.

A plant operator occupies the plant control room 24 hours per day, which allows the plant personnel to monitor two key catalyst operating parameters. Namely, catalyst inlet temperature and pressure drop across the catalyst bed. A high temperature alarm is in place to alert the operator if the catalyst inlet temperature exceeds 1250° F (677° C) to protect the bed from thermal damage, and a high-pressure alarm sounds if the pressure

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drop across the catalyst bed exceeds 3" of water column. The pressure reading serves two purposes: to ensure that there is airflow across the bed, thus verifying that the system is operating, and to alert the plant operator if a possible plugging or fouling has occurred.

II. Monitoring Approach

The key elements of the monitoring approach are presented in Table 1. The selected performance indicators are catalyst inlet temperature, pressure drop across the catalyst bed, and annual emissions testing. The plant operator manually logs the temperature and the pressure drop once a day, monitors the alarms, and takes action if the readings are outside the allowable operating range.

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Walt Disney World Company Walt Disney World Resort Complex **FINAL Permit No.:** 0950111-029-AV

Facility ID No.: 0950111

TABLE 1: MONITORING APPROACH

	-	Indicator No. 1	Indicator No. 2
I.	Indicator	Catalyst inlet temperature	Pressure differential across catalyst bed
	Measurement Approach	Thermocouples	Pressure sensors
II.	Indicator Range	Minimum Temp.: 392° F (200° C) Maximum Temp.: 1250° F (677° C)	Maximum pressure diff. = 3" of water column (w.c.)
	QIP Threshold (optional)	An excursion is defined as falling below 392° F (200° C) or rising above 1250° F (677° C) during normal operation.	An excursion is defined as rising above 3" w.c. during normal operation.
III	. Performance Criteria		
	A. Data Representativeness	The thermocouples are located at the inlet face of the catalyst bed.	The pressure sensors are located on the inlet and outlet faces of the catalyst bed.
	B. Verification of Operational Status	Plant control room operators monitor the alarm system 24 hours/day and record data once per day.	Plant control room operators monitor the alarm system 24 hours/day and record data once per day.
	C. QA/QC Practices and Criteria	Annual testing & calibration of the temperature sensor transmitters.	Annual testing & calibration of the pressure sensor transmitters.
	D. Monitoring Frequency	Daily	Daily
	Data Collection Procedures	Temperature readings are recorded daily.	Pressure readings are recorded daily.
	Averaging Procedures	NA (monitoring data does not correspond to actual emissions rate).	NA (monitoring data does not correspond to actual emissions rate).

version dated October 5, 2007

Walt Disney World Company
Walt Disney World Resort Complex

FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

III. Justification.

A. Rationale for Selection of Performance Indicators

The proposed indicators, e.g., Indicator No. 1: Catalyst inlet temperature, and Indicator No. 2: Pressure differential across catalyst bed, are consistent with parameters measured on catalytic oxidation systems.

B. Rationale for Selection of Performance Indicator Ranges

The proposed indicators ranges for the catalyst inlet temperature were established by the applicant based on the data shown in Figure 1.

C. Rationale for Selection of Monitoring Frequency

EPA suggests data be averaged "consistent with the characteristics and typical variability of the pollutant-specific emissions unit ..." (see 40 CFR 64.3(b)(4)(i)). The averaging period could be based on the size of the PSEU (pollutant specific emissions unit) (see 40 CFR 64.3(b)(4)(ii) & (iii)). Also, at 40 CFR 64.3(c) "the level of actual emissions relative to the compliance limitation" could be considered in the monitoring design, e.g., averaging period. The CAM regulation implies a minimum averaging period of daily (24-hours) at 40 CFR 64.3(b)(4)(iii).

This PSEU is classified as a 'major PSEU' for CO emissions under 40 CFR 64.3(b)(4)(ii).

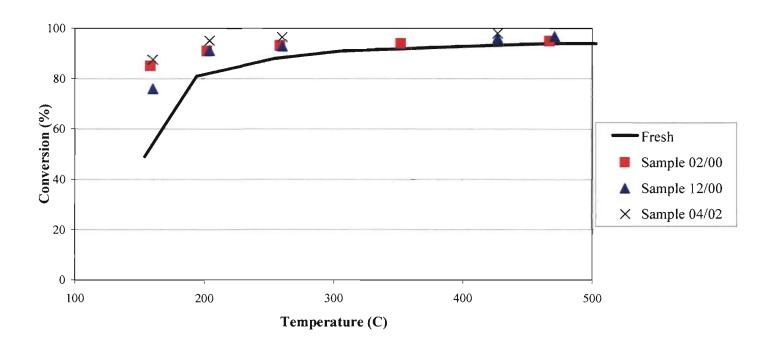
<u>Indicator No. 1:</u> A daily (24-hour) monitoring frequency was selected as appropriate in this CAM Plan for the catalyst inlet temperature across the catalyst bed.

<u>Indicator No. 2:</u> A daily (24-hour) monitoring frequency was selected as appropriate in this CAM Plan for the catalyst pressure differential across the catalyst bed.

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Walt Disney World Company Walt Disney World Resort Complex FINAL Permit No.: 0950111-029-AV Facility ID No.: 0950111

Figure 1: Reedy Creek Cogeneration Plant CO Conversion



Appendix H-1, Permit History/ID Number Changes

Walt Disney World Co. Walt Disney World Resort Complex FINAL Permit No.: 0950111-029-AV

Facility ID No.: 0950111

E.U. ID'No.	Description	Permit No.	Effective Date	Expiration Date	Project Type
All	Facility	0950111-005-AV	01/01/1998	12/31/2002	Initial
-088/CEP-1	CCCT and HRSG	0950111-016-AC	05/25/1999	12/31/2002	Construction (mod.)
		0950111-017-AV	05/25/1999	12/31/2002	Revision
-112/DAK-1	Necropsy Bldg.: Animal Crematory	0950111-013-AC	03/18/1998	12/31/1999	Construction (new)
		0950111-017-AV	05/25/1999	12/31/2002	Revision
-115/DAKU- 52	Tree of Life Boiler	0950111-016-AC	05/25/1999	12/31/2002	Construction (new)
	·	0950111-017-AV	05/25/1999	12/31/2002	Revision
All	Facility	0950111-021-AV	01/01/2003	12/31/2007 ³	Renewal
-120	Three Diesel Electric Generators Serving the DISC Building	0950111-022-AC	06/16/2004	12/31/2004	Construction (new)
-120	Three Diesel Electric Generators Serving the DISC Building	0950111-023-AC	12/01/04	2/28/2005	Construction (mod.)
All	Facility	0950111-024-AV	2/2/05	12/31/2007	Revision
-088/CEP-1	CCCT and HRSG	0950111-025-AC	6/13/05	11/1/06	Construction (new)
-088/CEP-1	CCCT and HRSG	0950111-026-AC	8/16/06	11/1/06	Construction (mod.)
-088/CEP-1	CCCT and HRSG	0950111-027-AV ¹	2/1/07	NA	Revision
All	Facility	0950111-029-AV	01/01/08 ²	12/31/12	Renewal

¹ The most recently posted Title V permit on the web site.
² Future effective date for acid rain purposes.

³ Extension(s) of existing permit(s). Rule 62-213.420(1)(b)2., F.A.C. requires applicants having made a timely application for permit renewal to continue to operate the source under the authority and provisions of any existing valid permit or Florida Electrical Power Plant Siting Certification, and in accordance with applicable requirements of the Acid Rain Program, until the conclusion of proceedings associated with its permit application or until the new permit becomes effective, whichever is later.

Appendix H-1, Permit History/ID Number Changes

Walt Disney World Co.
Walt Disney World Resort Complex

FINAL Permit No.: 0950111-029-AV

Facility ID No.: 0950111

Subsequent Permits Issued & Projects:

Compilation of permits and projects issued after the most recently posted Title V permit on the web site.

Air Permit Documents Search page of world wide web site (http://www.dep.state.fl.us/air/eproducts/apds/default.asp) accessed on 08/22/2007. ARMS - Permitting Application - Projects, accessed on 08/22/2007.

E.U. ID No.	Description	Permit No.	Effective Date	Expiration Date	Project Type
-121	Dry Cleaning Machine	0950111-028-AC	7/2/07	12/31/08	Construction
	replacement				

Other Permits:

E.U. ID No.	Description	Permit No.	Effective Date	Expiration Date	Project Type
-088/CEP-1	CCCT and HRSG	AC48-137740,	3/8/88	12/1/88	Initial Construction
		PSD-FL-123		•	

Appendix H-1, Permit History/ID Number Changes

Walt Disney World Co.
Walt Disney World Resort Complex

FINAL Permit No.: 0950111-029-AV

Facility ID No.: 0950111

Emissions Units History (for tracking purposes):

Inactivated Emissions Units:

E.U. ID No.	<u>Description</u>
South Service Area	
<u>-071 (SSA-1)</u>	<u>PSB</u>

Reason: The paint spray booth has been removed from service and will not be used in the future.

Disney-MGM Stud	lios Feature Anin	nation Building	
-117/MGM-xx	PSB		
-117/MGM-xx	PSB		

Reason: This facility has been reclassified and the spray painting operation has been discontinued. The bench top booths have been dismantled and will not be resuming operation.

North Service Area	(NSA)	٦
-005 (NSA-17)	North Service Area (NSA) Central Shops Building Annex (CSBA): Sand	
	Blast Chamber No. 1: unregulated	

Reason: This unit has been shut down permanently.

North Service Area Dry Cleaning Plant	
-001 (LDC-1)	Dry Cleaning Unit #1

Reason: This unit has been replaced.

From:

System Administrator

To:

Sheplak, Scott

Sent:

Monday, December 03, 2007 12:45 PM

Subject:

Delivered: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company

- Walt Disney World Resort Complex

Your message

To:

'Lee.Schmudde@disney.com'; 'rich.bumar@disney.com'; Bradner, James; 'Forney.Kathleen@epamail.epa.gov'

Cc:

Sheplak, Scott

Subject:

FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World Resort Complex

Sent:

12/3/2007 12:44 PM

was delivered to the following recipient(s):

Sheplak, Scott on 12/3/2007 12:44 PM

From:

System Administrator

To:

Bradner, James

Sent:

Monday, December 03, 2007 12:45 PM

Subject:

Delivered:FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company

- Walt Disney World Resort Complex

Your message

To:

'Lee.Schmudde@disney.com'; 'rich.bumar@disney.com'; Bradner, James; 'Forney.Kathleen@epamail.epa.gov'

Cc:

Sheplak, Scott

Subject:

FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World Resort Complex

Sent:

12/3/2007 12:44 PM

was delivered to the following recipient(s):

Bradner, James on 12/3/2007 12:44 PM

From:

Mail Delivery System [MAILER-DAEMON@mseive01.rtp.epa.gov]

Sent:

Monday, December 03, 2007 12:45 PM

To:

Friday, Barbara

Subject:

Successful Mail Delivery Report

Attachments:

Delivery report; Message Headers





Delivery report.txt (487 B)

Message

Headers.txt (2 KB)

This is the mail system at host mseive01.rtp.epa.gov.

Your message was successfully delivered to the destination(s) listed below. If the message was delivered to mailbox you will receive no further notifications. Otherwise you may still receive notifications of mail delivery errors from other systems.

The mail system

<Forney.Kathleen@epamail.epa.gov>: delivery via 127.0.0.1[127.0.0.1]:10025: 250 OK, sent 475440B0 18309 338 5

From:

Bradner, James

Sent:

Monday, December 03, 2007 1:04 PM

To:

Friday, Barbara

Subject: RE: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt

Disney World Resort Complex

Received—thanks!

From: Friday, Barbara

Sent: Monday, December 03, 2007 12:44 PM

To: 'Lee.Schmudde@disney.com'; 'rich.bumar@disney.com'; Bradner, James; 'Forney.Kathleen@epamail.epa.gov'

Cc: Sheplak, Scott

Subject: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World

Resort Complex

Dear Sir/Madam:

Please send a "reply" message verifying receipt of the attached document(s); this may be done by selecting "Reply" on the menu bar of your e-mail software and then selecting "Send". We must receive verification of receipt and your reply will preclude subsequent e-mail transmissions to verify receipt of the document(s).

The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: http://www.adobe.com/products/acrobat/readstep.html.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineerof-Record.

Thank you,

DEP, Bureau of Air Regulation

From:

Bumar, Rich [Rich.Bumar@disney.com]

To:

Friday, Barbara

Sent:

Subject:

Monday, December 03, 2007 1:26 PM
Read: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World Resort Complex

Your message

To:

Rich.Bumar@email.disney.com

Subject:

was read on 12/3/2007 1:26 PM.

From: Bumar, Rich [Rich.Bumar@disney.com]

Sent: Monday, December 03, 2007 1:27 PM

To: Friday, Barbara

Subject: RE: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt

Disney World Resort Complex

Message received, thanks.

Rich Bumar, PE

Sr. Environmental Control Representative

Walt Disney World Co.

Environmental Control Dept.

Disney University Suite 200

Phone: 407-824-7129 (8+273+7129)

Fax: 407-824-7455

Mobile: 321-278-6125

Nextel DC:162*134*1071

Email: rich.bumar@disney.com

From: Friday, Barbara [mailto:Barbara.Friday@dep.state.fl.us]

Sent: Monday, December 03, 2007 12:44 PM

To: Schmudde, Lee; Bumar, Rich; Bradner, James; Forney.Kathleen@epamail.epa.gov

Cc: Sheplak, Scott

Subject: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World

Resort Complex

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The document(s) may require immediate action within a specified time frame. Please open and review the document(s) as soon as possible.

The document is in Adobe Portable Document Format (pdf). Adobe Acrobat Reader can be downloaded for free at the following internet site: http://www.adobe.com/products/acrobat/readstep.html.

The Bureau of Air Regulation is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal System, to provide greater service to the applicant and the engineering community. Please advise this office of any changes to your e-mail address or that of the Engineer-of-Record.

Thank you,

DEP, Bureau of Air Regulation

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on this link to the DEP Customer Survey. Thank you in advance for completing the survey.

From:

Sheplak, Scott

To:

Friday, Barbara

Sent:

Monday, December 03, 2007 2:37 PM

Subject:

Read: FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company -

Walt Disney World Resort Complex

Your message

To:

'Lee.Schmudde@disney.com'; 'rich.bumar@disney.com'; Bradner, James; 'Forney.Kathleen@epamaii.epa.gov'

Cc:

Sheplak, Scott

Subject:

FINAL Title V Permit Renewal No.: 0950111-029-AV - Walt Disney World Company - Walt Disney World Resort Complex

Sent:

12/3/2007 12:44 PM

was read on 12/3/2007 2:37 PM.