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BUREAU OF AIR REGULATION

APPLICATION FOR TITLE V PERMIT REVISION  
INSTALLATION OF DIRECT WATER  
SPRAY FOGGING SYSTEMS  
JEA NORTHSIDE PLANT  
0310045-008-AV

Prepared For:

JEA  
21 West Church Street  
Jacksonville, Florida 32202-3139

Prepared By:

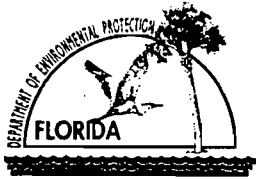
Golder Associates Inc.  
6241 NW 23rd Street, Suite 500  
Gainesville, Florida 32653

September 2001  
0137620/F1

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PART I  
APPLICATION FOR AIR PERMIT  
LONG FORM



# Department of Environmental Protection

## Division of Air Resources Management

### APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

#### I. APPLICATION INFORMATION

##### Identification of Facility

1. Facility Owner/Company Name: <b>JEA</b>	
2. Site Name: <b>Northside Generating Station</b>	
3. Facility Identification Number: <b>0310045</b> [ ] Unknown	
4. Facility Location: Street Address or Other Locator: <b>4377 Hecksher Drive</b> City: <b>Jacksonville</b> County: <b>Duval</b> Zip Code: <b>32218</b>	
5. Relocatable Facility? [ ] Yes [ <b>X</b> ] No	6. Existing Permitted Facility? [ ] Yes [ ] No

##### Application Contact

1. Name and Title of Application Contact: <b>Mr. N. Bert Gianazza, P.E.</b>	
2. Application Contact Mailing Address: Organization/Firm: <b>JEA Environmental Permitting and Compliance Group</b> Street Address: <b>21 West Church Street – 8th Floor</b> City: <b>Jacksonville</b> State: <b>FL</b> Zip Code: <b>32202</b>	
3. Application Contact Telephone Numbers: Telephone: ( <b>904</b> ) <b>665 - 6247</b> Fax: ( <b>904</b> ) <b>665 - 7376</b>	

##### Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

**Purpose of Application**

**Air Operation Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: \_\_\_\_\_

- Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: **0310045-004-AC**

Operation permit number to be revised: **0310045-002-AV**

- Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: \_\_\_\_\_

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: \_\_\_\_\_

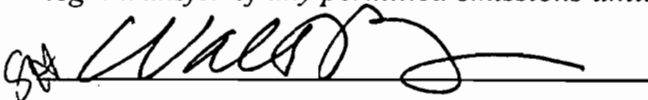
Reason for revision: \_\_\_\_\_

**Air Construction Permit Application**

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

**Owner/Authorized Representative or Responsible Official**

1. Name and Title of Owner/Authorized Representative or Responsible Official: <b>Walter P. Bussells, CEO and Managing Director</b>
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: <b>JEA</b> Street Address: <b>21 West Church Street</b> City: <b>Jacksonville</b> State: <b>FL</b> Zip Code: <b>32202</b>
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: <b>( 904 ) 665 - 7220</b> Fax: <b>( 904 ) 665 - 7376</b>
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [ ], if so) or the responsible official (check here [✓], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>   Signature  <u>9/13/01</u> Date

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

**Professional Engineer Certification**

1. Professional Engineer Name: <b>Kennard F. Kosky</b> Registration Number: <b>14996</b>
2. Professional Engineer Mailing Address: Organization/Firm: <b>Golder Associates Inc.</b> Street Address: <b>6241 NW 23rd Street, Suite 500</b> City: <b>Gainesville</b> State: <b>FL</b> Zip Code: <b>32653-1500</b>
3. Professional Engineer Telephone Numbers: Telephone: <b>( 352 ) 336 - 5600</b> Fax: <b>( 352 ) 336 - 6603</b>

4. Professional Engineer Statement:

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

*(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and*

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

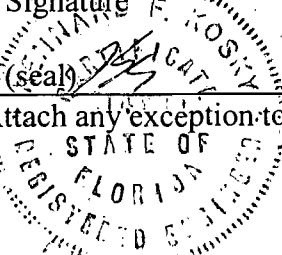
*If the purpose of this application is to obtain a Title V source air operation permit (check here [ ], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.*

*If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [X], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.*

*If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [ ], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.*

*Howard I. Erby*  
\_\_\_\_\_  
Signature

*September 17, 2001*  
\_\_\_\_\_  
Date



\* Attach any exception to certification statement.

**Scope of Application**

<b>Emissions Unit ID</b>	<b>Description of Emissions Unit</b>	<b>Permit Type</b>	<b>Processing Fee</b>
006	Combustion Turbine No. 3	AF2A	
007	Combustion Turbine No. 4	AF2A	
008	Combustion Turbine No. 5	AF2A	
009	Combustion Turbine No. 6	AF2A	

**Application Processing Fee**

Check one:  Attached - Amount: \$: \_\_\_\_\_  Not Applicable

**Construction/Modification Information**

1. Description of Proposed Project or Alterations:

2. Projected or Actual Date of Commencement of Construction

3. Projected Date of Completion of Construction:

**Application Comment**

Existing gas turbines Nos. 3 through 6 were installed with direct water spray fogging systems that will reduce the turbine inlet air temperature. The temperature reduction improved the heat rate and increase power due to the cooler-denser inlet air. As required by air construction permit 0310045-004-AC, stack testing for NO<sub>x</sub> was performed demonstrating that the use of the inlet foggers reduced NO<sub>x</sub> emissions. The net emissions change for other air pollutants did not result in an increase of any regulated pollutant greater than the PSD significant emission rates. Refer to Part II for discussion.



## II. FACILITY INFORMATION

### A. GENERAL FACILITY INFORMATION

#### Facility Location and Type

1. Facility UTM Coordinates: Zone: <b>17</b> East (km): <b>446.9</b> North (km): <b>3359.15</b>			
2. Facility Latitude/Longitude: Latitude (DD/MM/SS): <b>30 / 21 / 52</b> Longitude (DD/MM/SS): <b>81 / 37 / 25</b>			
3. Governmental Facility Code: <b>0</b>	4. Facility Status Code: <b>A</b>	5. Facility Major Group SIC Code: <b>49</b>	6. Facility SIC(s): <b>4911</b>
7. Facility Comment (limit to 500 characters):  <b>The existing Northside plant currently consists of 3 Fossil Fuel Fired-Steam Generators and 4 simple cycle gas turbines. The 4 combustion turbines (CT Units 3-6) are fired with No. 2 Distillate Oil. Air construction permit (DEP File No. 0310045-003-AC) was issued in 1999 to repower existing Units 1 and 2. Refer to Part II for discussion.</b>			

#### Facility Contact

1. Name and Title of Facility Contact: <b>Mr. N. Bert Gianazza, P.E.</b>			
2. Facility Contact Mailing Address: Organization/Firm: <b>JEA Environmental Permitting and Compliance Group</b> Street Address: <b>21 West Church Street – 8<sup>th</sup> Floor</b> City: <b>Jacksonville</b> State: <b>FL</b> Zip Code: <b>32202</b>			
3. Facility Contact Telephone Numbers: Telephone: <b>(904) 664 - 6247</b> Fax: <b>(904) 665 - 7376</b>			

**Facility Regulatory Classifications**

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input type="checkbox"/> Unknown
2. <input checked="" type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input checked="" type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	

**List of Applicable Regulations**

<b>Facility emissions covered under existing Title V permit, no additional facility applicable requirements as a result of the proposed change.</b>	

## B. FACILITY POLLUTANTS

### List of Pollutants Emitted

1. Pollutant Emitted	2. Pollutant Classif.	3. Requested Emissions Cap		4. Basis for Emissions Cap	5. Pollutant Comment
		lb/hour	tons/year		

**C. FACILITY SUPPLEMENTAL INFORMATION**

**Supplemental Requirements**

1. Area Map Showing Facility Location: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Supplemental Requirements Comment:

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

8. List of Proposed Insignificant Activities: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input checked="" type="checkbox"/> Attached, Document ID: <b>Part II</b> <input type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input checked="" type="checkbox"/> Attached, Document ID: <b>Part II</b> <input type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input checked="" type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

**III. EMISSIONS UNIT INFORMATION**

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION  
(All Emissions Units)**

**Emissions Unit Description and Status**

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>3. Description of Emissions Unit Addressed in This Section (limit to 60 characters): <b>Combustion Turbines Nos. 3, 4, 5, and 6</b></p>			
<p>4. Emissions Unit Identification Number: <span style="float: right;"><input type="checkbox"/> No ID</span></p> <p>ID: <b>006, 007, 008, and 009</b> <span style="float: right;"><input type="checkbox"/> ID Unknown</span></p>			
<p>5. Emissions Unit Status Code: <b>A</b></p>	<p>6. Initial Startup Date: <b>1974</b></p>	<p>7. Emissions Unit Major Group SIC Code: <b>049</b></p>	<p>8. Acid Rain Unit? <input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters) <b>These emission units are identical combustion turbines included in Subsection C of the existing Title V permit. Only monitoring requirements for the inlet foggers are required to be included in the Title V permit.</b></p>			

**Emissions Unit Control Equipment**

1. Control Equipment/Method Description (Limit to 200 characters per device or method):
2. Control Device or Method Code(s):

**Emissions Unit Details**

1. Package Unit:		
Manufacturer: <b>General Electric</b>	Model Number: <b>MS7000</b>	
2. Generator Nameplate Rating: <b>56.1 MW (each)</b>		
3. Incinerator Information:		
Dwell Temperature:		°F
Dwell Time:		seconds
Incinerator Afterburner Temperature:		°F

**B. EMISSIONS UNIT CAPACITY INFORMATION  
(Regulated Emissions Units Only)**

**Emissions Unit Operating Capacity and Schedule**

1. Maximum Heat Input Rate:	901 mmBtu/hr
2. Maximum Incineration Rate:	lb/hr                      tons/day
3. Maximum Process or Throughput Rate:	
4. Maximum Production Rate:	
5. Requested Maximum Operating Schedule:	
	hours/day                      days/week
	weeks/year                      8,760 hours/year
6. Operating Capacity/Schedule Comment (limit to 200 characters):	
<p>Heat input based on lower heating value (LHV) which was included in the Title V permit to identify testing requirements. Actual heat input based on load versus turbine inlet temperature curves contained in Title V permit. Inlet fogging limited to 399 hours per year per turbine.</p>	



**C. EMISSIONS UNIT REGULATIONS  
(Regulated Emissions Units Only)**

**List of Applicable Regulations**

No change in Applicable Regulation from that identified in Title V permit.	

**D. EMISSION POINT (STACK/VENT) INFORMATION  
(Regulated Emissions Units Only)**

**Emission Point Description and Type**

1. Identification of Point on Plot Plan or Flow Diagram?		2. Emission Point Type Code:	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code:	6. Stack Height: <div style="text-align: right;">feet</div>	7. Exit Diameter: <div style="text-align: right;">feet</div>	
8. Exit Temperature: <div style="text-align: center;">F</div>	9. Actual Volumetric Flow Rate: <div style="text-align: center;">acfm</div>	10. Water Vapor: <div style="text-align: right;">%</div>	
11. Maximum Dry Standard Flow Rate: <div style="text-align: center;">dscfm</div>		12. Nonstack Emission Point Height: <div style="text-align: right;">feet</div>	
13. Emission Point UTM Coordinates: Zone                                      East (km):                                      North (km):			
14. Emission Point Comment (limit to 200 characters):  <b>There is no change in the stack information resulting from the installation of the inlet foggers.</b>			

**E. SEGMENT (PROCESS/FUEL) INFORMATION**  
**(All Emissions Units)**

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

1. Segment Description (Process/Fuel Type) (limit to 500 characters):  Gas turbine operating with No. 2 Distillate Oil using inlet foggers (per gas turbine).		
2. Source Classification Code (SCC): <b>2-01-001-01</b>	3. SCC Units: <b>1,000 gallons</b>	
4. Maximum Hourly Rate: <b>6.96</b>	5. Maximum Annual Rate: <b>2,780.3</b>	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur: <b>0.5</b>	8. Maximum % Ash:	9. Million Btu per SCC Unit: <b>129.3</b>
10. Segment Comment (limit to 200 characters):  Based on 901 mmBtu/hr (LHV) and 399 hours of inlet fogging. All valves shown are for a single CT.		

**Segment Description and Rate:** Segment   of

1. Segment Description (Process/Fuel Type ) (limit to 500 characters):		
2. Source Classification Code (SCC):	3. SCC Units:	
4. Maximum Hourly Rate:	5. Maximum Annual Rate:	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

**F. EMISSIONS UNIT POLLUTANTS**  
**(All Emissions Units)**

1. Pollutant Emitted	2. Primary Control Device Code	3. Secondary Control Device Code	4. Pollutant Regulatory Code
No change from current Title V permit.			

**G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION  
(Regulated Emissions Units -  
Emissions-Limited and Preconstruction Review Pollutants Only)**

**Potential/Fugitive Emissions (No change from current Title V permit.)**

1. Pollutant Emitted:	2. Total Percent Efficiency of Control:
3. Potential Emissions: lb/hour  tons/year	4. Synthetically Limited? [ ]
5. Range of Estimated Fugitive Emissions: [ ] 1            [ ] 2            [ ] 3                   to                   tons/year	
6. Emission Factor: Reference:	7. Emissions Method Code:
8. Calculation of Emissions (limit to 600 characters):	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

**Allowable Emissions** Allowable Emissions        of       

1. Basis for Allowable Emissions Code:	2. Future Effective Date of Allowable Emissions:
3. Requested Allowable Emissions and Units:	4. Equivalent Allowable Emissions: lb/hour  tons/year
5. Method of Compliance (limit to 60 characters):	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters):	



**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION  
(Regulated Emissions Units Only)****Supplemental Requirements**

1. Process Flow Diagram [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
2. Fuel Analysis or Specification [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
3. Detailed Description of Control Equipment [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
4. Description of Stack Sampling Facilities [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
5. Compliance Test Report [X ] Attached, Document ID: <b>Part II</b> [ ] Previously submitted, Date: _____ [ ] Not Applicable
6. Procedures for Startup and Shutdown [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
7. Operation and Maintenance Plan [ ] Attached, Document ID: _____ [X ] Not Applicable [ ] Waiver Requested
8. Supplemental Information for Construction Permit Application [ ] Attached, Document ID: _____ [X ] Not Applicable
9. Other Information Required by Rule or Statute [ ] Attached, Document ID: _____ [X ] Not Applicable
10. Supplemental Requirements Comment:          

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

11. Alternative Methods of Operation <input checked="" type="checkbox"/> Attached, Document ID: <u>Part II</u> <input type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable



PART II  
SUPPORTING INFORMATION

**Application for Title V Permit Revision  
Installation of Direct Water Spray Fogging Systems  
Northside Plant**

**Introduction**

JEA installed direct water spray fogging systems in the inlet ducts of the existing four simple cycle combustion turbines at the Northside plant pursuant to Florida Department of Environmental Protection (FDEP) air construction permit No. 0310045-004-AC. The air construction permit and amendments are contained in Attachment A. The subsection of the Title V permit application for these emission units are also contained in Attachment A.

**Description**

The purpose of the inlet foggers is to provide adiabatic inlet air cooling that increases turbine output and decreases heat rate.

The direct inlet fogging systems achieve adiabatic cooling using water to form fine droplets (fog). The fog is produced by injection grids placed in the turbine inlet duct that use nozzles that produce a fine spray. The small fog particles (about 10 to 20 microns) extract the latent heat of vaporization from the gas stream when the water droplet is converted to gas. Heat is removed at a rate of 1,075 Btu/lb of water. The result of the fogging is a cooler more moisture laden air stream.

The amount of heat removed is highly dependent upon the ambient air conditions. The two most important parameters are the dry bulb temperature and relative humidity. As moisture is added to the inlet air by the fogging, the vaporization of the fog droplets cools the air toward the wet-bulb temperature.

**Fogging Tests**

As required by Conditions 3 and 5 of the air construction permit, emission tests using EPA Method 7E were conducted for one representative turbine (CT-5). The tests were conducted during June 22-23, 2001 and are contained in Attachment B. Table 1 summarizes the results of the tests as well as calculations of emissions in lb/hr using EPA Method 19. The test results clearly show a decrease in NO<sub>x</sub> emissions for the turbine tested. This result was also found in preliminary tests conducted prior to the issuance of the air construction permit.

### Regulatory Applicability

A modification is defined in Rule 62-210.200 Florida Administrative Code (F.A.C.) as any physical change in, or a change in the method of operation of, or addition to a facility which would result in an increase in the actual emissions of any air pollutant subject to regulation under the Clean Air Act. A modification to a major source of air pollution, such as the Northside plant, may be subject to review under the Department's Prevention of Significant Deterioration (PSD) rules codified in Rule 62-212.400 F.A.C.

The installation of direct water spray fogging systems was determined to be a modification according to Rule 62-212.200 (188) F.A.C., since annual emissions will potentially increase as a result of the increased power and heat input.

Based on the test data, it is concluded that the NO<sub>x</sub> emission rate decreased as a result of inlet fogging. For other air pollutants, the increase in annual potential emissions associated with the use of the fogging systems is below the PSD significant emission rates. For the four combustion turbines, the maximum potential annual increase in emissions is estimated as follows:

Summary of Maximum Annual Emissions - All Units - 4 CTs at 399 hr/yr

<u>Pollutant</u>	<u>TPY</u>
PM	+ 0.032 <sup>a</sup>
NO <sub>x</sub>	- 50.50 <sup>b</sup>
SO <sub>2</sub>	+ 3.748 <sup>a</sup>
CO	+ 0.024 <sup>a</sup>
VOC	+ 0.003 <sup>a</sup>

<sup>a</sup> AP-42

<sup>b</sup> Determined from test data.

These maximum potential emission rates are less than the significant emission rates in Table 62-212.400-2 in Rule 62-212.400 F.A.C. and therefore PSD would not apply.

**Table 1. Emission Calculations for JEA Northside Generating Station CT-5**

**Foggers On:**

NOx Concentration	132.9 ppm corrected to 15% O <sub>2</sub>
NOx Concentration	119.1 ppm
O <sub>2</sub> Concentration	15.60%
Heat Input	667.6 MMBtu/hr
EPA Method 19; Oxygen Based F Factor:	
E = C <sub>d</sub> F <sub>d</sub> [20.9/(20.9 - %O <sub>2d</sub> )]	
F <sub>d</sub> (distillate oil)	9,190 dscf/MMBtu
ppm NOx	1.194E-07 lb/scf
C <sub>d</sub>	119.1 ppm
C <sub>d</sub>	1.42205E-05 lb/scf
E	0.5153 lb/MMBtu
E	344.05 lb/hr

**Foggers Off:**

NOx Concentration	158 ppm corrected to 15% O <sub>2</sub>	
NOx Concentration	140.3 ppm	
O <sub>2</sub> Concentration	15.70%	
Heat Input	658.3 MMBtu/hr	
EPA Method 19; Oxygen Based F Factor:		
E = C <sub>d</sub> F <sub>d</sub> [20.9/(20.9 - %O <sub>2d</sub> )]		
F <sub>d</sub> (distillate oil)	9,190 dscf/MMBtu	
ppm NOx	1.194E-07 lb/scf	
C <sub>d</sub>	140.3 ppm	
C <sub>d</sub>	1.67518E-05 lb/scf	
E	0.6188 lb/MMBtu	
E	407.33 lb/hr	
NOx Emission Decrease	-63.28 lb/hr	
	-12.62 tons/year/CT	-50.50 tons/year

**Emission Increases Resulting from Increased heat Input**

Heat Input Increase	9.3 MMBtu/hr	
Hours per Year	399	
PM Emission Factor <sup>a</sup>	0.0043 lb/MMBtu	
PM Emissions	0.040 lb/hr/CT	
PM Emissions	0.0080 tons/year/CT	0.032 tons/year
SO <sub>2</sub> Emission Factor <sup>a</sup>	0.505 lb/MMBtu	
SO <sub>2</sub> Emissions	4.697 lb/hr/CT	
SO <sub>2</sub> Emissions	0.9370 tons/year/CT	3.748 tons/year
CO Emission Factor <sup>b</sup>	0.0033 lb/MMBtu	
CO Emissions	0.031 lb/hr/CT	
CO Emissions	0.0061 tons/year/CT	0.024 tons/year
VOC Emission Factor <sup>a</sup>	0.00041 lb/MMBtu	
VOC Emissions	0.004 lb/hr/CT	
VOC Emissions	0.0008 tons/year/CT	0.003 tons/year

Note:

<sup>a</sup> AP-42 Emissions Factors for Stationary Gas Turbines, Table 3.1-2a (April 2000)

<sup>b</sup> AP-42 Emissions Factors for Stationary Gas Turbines, Table 3.1-1 (April 2000)

ATTACHMENT A  
AIR PERMIT INFORMATION

July 13, 2000

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Walter P. Bussells  
Jacksonville Electric Authority  
21 West Church Street  
Jacksonville, Florida 32202

RE: Northside Generating Station Combustion Turbines  
Facility No. 0310045-004-AC

Dear Mr. Bussells:

The Department reviewed your request dated July 10, 2000 to modify the above mentioned construction permit. The request is acceptable and the referenced permit is hereby modified as follows:

**SPECIFIC CONDITION 5**

The test method for visible emissions shall be EPA Method 9 and the test method for nitrogen oxides shall be EPA Method 7 or 7E, incorporated and adopted by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C.

[Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.; and, Part XI, Rule 2.1101, JEPB]

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permitting decision is issued pursuant to Chapter 403, Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

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

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

Mediation is not available in this proceeding.

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

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

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

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

This permitting decision is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this order will not be effective until further order of the Department.

Any party to this permitting decision (order) has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

\_\_\_\_\_  
Howard L. Rhodes, Director  
Division of Air Resources  
Management

**CERTIFICATE OF SERVICE**

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

Mr. Walter P. Bussells, JEA\*  
Mr. Chris Kirts, DEP-NED  
Mr. Jim Manning, RESD

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.

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Date)



March 30, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. Bert Gianazza, P.E.  
Jacksonville Electric Authority  
21 West Church Street  
Jacksonville, Florida 32202

RE: Northside Generating Station Combustion Turbines 3,4,5 and 6  
DEP File No.: 0310045-006-AC

Dear Mr. Gianazza:

The Department received your letter on March 1, 2001 to modify the above mentioned construction permit. The letter requested restriction in the hours of operation from 1000 hrs/yr to 399 hrs/yr for each combustion turbine. Additionally, initial testing is requested to show no increase in actual NO<sub>x</sub> emissions occur as a result of fogger operation. The request is acceptable and the referenced permit's Specific Condition No. 3 is hereby modified as follows:

From:

Inlet foggers may be installed at the compressor inlet to each of the four General Electric Model MS 7000 combustion turbine-electric generators. The four foggers may operate up to 4,000 hours per year in aggregate (average 1000 hours per unit per year). Maximum heat input shall not exceed 634 mmBtu/hr/unit and NO<sub>x</sub> emissions shall not exceed 300 lb/hr /unit at 90° F and 63 percent RH. This maximum heat input rate will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's curves corrected for site conditions or equations for correction to other ambient conditions shall be provided to the Department of Environmental Protection (DEP) within 45 days of completing the initial compliance testing after the foggers are installed. Thereafter, compliance shall be demonstrated as required in Rule 62-297.310(7). Nitrogen oxides emissions shall be demonstrated by a stack test on one representative turbine. Testing shall be performed each federal fiscal year, no later than September 30th.

To:

Inlet foggers may be installed at the compressor inlet to each of the four General Electric Model MS 7000 combustion turbine-electric generators. The four foggers may operate up to 399 hours per year each. The maximum heat input rate will vary depending upon ambient conditions and the combustion turbine characteristics. Initial stack tests for NO<sub>x</sub> using EPA Method 7 or 7E shall be performed on one representative turbine with and without the foggers operating to show that no increase in NO<sub>x</sub> emissions occur as a result of fogger operation.

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permitting decision is issued pursuant to Chapter 403, Florida Statutes.

A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative proceeding (hearing) under sections 120.569 and 120.57 of the Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the permit applicant or any of the parties listed below must be filed within fourteen days of receipt of this notice

of intent. Petitions filed by any persons other than those entitled to written notice under section 120.60(3) of the Florida Statutes must be filed within fourteen days of publication of the public notice or within fourteen days of receipt of this notice of intent, whichever occurs first. Under section 120.60(3), however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under sections 120.569 and 120.57 F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205 of the Florida Administrative Code.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action; and (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

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

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

Mediation is not available in this proceeding.

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

The application for a variance or waiver is made by filing a petition with the Office of General Counsel of the Department, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. The petition must specify the following information: (a) The name, address, and telephone number of the petitioner; (b) The name, address, and telephone number of the attorney or qualified representative of the petitioner, if any; (c) Each rule or portion of a rule from which a variance or waiver is requested; (d) The citation to the statute underlying (implemented by) the rule identified in (c) above; (e) The type of action requested; (f) The specific facts that would justify a variance or waiver for the petitioner; (g) The reason why the variance or waiver would serve the purposes of the underlying statute (implemented by the rule); and (h) A statement whether the variance or waiver is permanent or temporary and, if temporary, a statement of the dates showing the duration of the variance or waiver requested.

The Department will grant a variance or waiver when the petition demonstrates both that the application of the rule would create a substantial hardship or violate principles of fairness, as each of those terms is defined in Section

120.542(2) F.S., and that the purpose of the underlying statute will be or has been achieved by other means by the petitioner.

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

This permitting decision is final and effective on the date filed with the clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition pursuant to Rule 62-110.106, F.A.C., and the petition conforms to the content requirements of Rules 28-106.201 and 28-106.301, F.A.C. Upon timely filing of a petition or a request for extension of time, this order will not be effective until further order of the Department.

Any party to this permitting decision (order) has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.

\_\_\_\_\_  
Howard L. Rhodes, Director  
Division of Air Resources  
Management

**CERTIFICATE OF SERVICE**

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

Mr. Bert Gianazza, JEA\*  
Mr. Chris Kirts, DEP-NED  
Mr. Jim Manning, RESD

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.

\_\_\_\_\_  
(Clerk)

\_\_\_\_\_  
(Date)

STATE OF FLORIDA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
NOTICE OF FINAL PERMIT

In the Matter of an  
Application for Permit by:

Mr. Walter P. Bussells  
Jacksonville Electric Authority  
21 West Church Street  
Jacksonville, Florida 32202

DEP File No. 0310045-004-AC

Duval County

Enclosed is Final Permit Number 0310045-004-AC. This permit authorizes the installation of inlet foggers on the four simple cycle combustion turbines located at Northside Generating Station and designated as Emissions Units 006-009. This permit is issued pursuant to Chapter 403, Florida Statutes.

Any party to this order has the right to seek judicial review of it under section 120.68 of the Florida Statutes, by filing a notice of appeal under rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 390<sup>th</sup> Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida.



C. H. Fancy, P.E., Chief  
Bureau of Air Regulation


CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Notice of Final Permit (including the Final permit) was sent by certified mail (\*) and copies were mailed by U.S. Mail before the close of business on 4-20-00 to the person(s) listed:

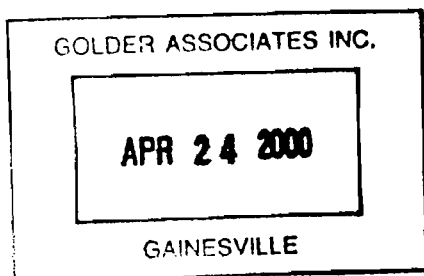
Walter P. Bussells, JEA\*  
Bert Gianazza, JEA  
Chris Kirts, DEP-NED  
Jim Manning, RESD  
Ken Kosky, P.E., Golder Associates

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.

  
(Clerk)

4-20-00  
(Date)



## **FINAL DETERMINATION**

### **JEA Northside Generating Station Units 006-009 Simple Cycle Combustion Turbines Inlet Fogger Permit No. 0310045-004-AC**

An Intent to Issue an Air Construction Permit for JEA Northside Generating Station, located at 4377 Hecksher Drive, Jacksonville, Duval County, Florida, was distributed on March 29, 2000. The Public Notice of Intent to Issue Air Construction Permit was published in the Florida Times-Union on April 1, 2000. Copies of the draft construction permit were available for public inspection at the Department offices in Jacksonville and Tallahassee.

The National Park Service, the U.S. Environmental Protection Agency or the public submitted no comments.

The final action of the Department is to issue the construction permit as proposed.



# Department of Environmental Protection

Jeb Bush  
Governor

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

David B. Struhs  
Secretary

## PERMITTEE:

Jacksonville Electric Authority  
21 West Church Street  
Jacksonville, Florida 32202

### *Authorized Representative:*

Mr. Walter P. Bussells

DEP File No.	0310045-004-AC
Project	Emissions Units 006 -009 Inlet Foggers
SIC No.	4911
Expires:	December 31, 2000

## PROJECT AND LOCATION:

Permit for the installation of inlet foggers on the four 56 (gross capacity) megawatt simple cycle General Electric Model MS 7000 combustion turbine-electrical generators Emissions Units 006 thru 009.

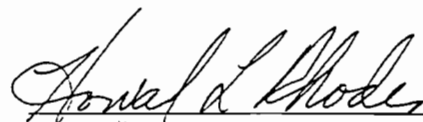
The units are located at the JEA Northside Generating Station, 4377 Hecksher Drive, Jacksonville, Duval County. UTM coordinates are: Zone 17; 446.9 km E and 3359.15 km N.

## STATEMENT OF BASIS:

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

## ATTACHED APPENDIX MADE A PART OF THIS PERMIT:

Appendix GC                      Construction Permit General Conditions

  
Howard L. Rhodes, Director  
Division of Air Resources  
Management

## **FACILITY DESCRIPTION**

Currently, this facility generates electric power from two residual fuel oil-fired steam Units 1 and 3 with a combined generating capacity of 870 megawatts (MW) and four distillate fuel oil-fired simple cycle combustion turbines with a combined net generating capacity of 210 MW. A Prevention of Significant Deterioration (PSD) construction permit (PSD-FL-265) was recently issued to repower Units 1 and 2 with coal and petroleum coke fired circulating fluidized bed boilers which will be connected to the existing steam turbines for Units 1 and 2. It is expected the repowering project to be in operation by the year 2002.

This permitting action is for the installation of inlet foggers at the four (4) distillate fuel oil-fired simple cycle combustion turbines that commenced commercial operation in 1974.

This Project is exempt from the requirements of Rule 62-212.400, F.A.C., Prevention of Significant Deterioration as discussed in the Technical Evaluation and Preliminary Determination dated March 29, 2000.

## **REGULATORY CLASSIFICATION**

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

This facility is within an industry included in the list of the 28 Major Facility Categories per Table 62-212.400-1, F.A.C. Because emissions are greater than 100 TPY for at least one criteria pollutant, the facility is also a Major Facility with respect to Rule 62-212.400, Prevention of Significant Deterioration (PSD).

This facility is a major source of hazardous air pollutants (HAPs) and is also subject to the provisions of Title IV, Acid Rain, Clean Air Act as amended in 1990.

## **PERMIT SCHEDULE**

- 04/01/00 Notice of Intent published in the Florida Times Union
- 03/29/00 Distributed Intent to Issue Permit
- 02/24/00 Application deemed complete
- 01/03/00 Received Application

## **RELEVANT DOCUMENTS:**

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

- Application received on January 3, 2000
- Department's incompleteness letter dated January 31, 2000
- JEA's response to Department's incompleteness letter received on February 24, 2000
- Department's Intent to Issue and Public Notice Package dated March 29, 2000

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JEA-Northside Generating Station  
Inlet Foggers Installation

Simple Cycle Combustion Turbines  
Emissions Units 006 through 009

## PERMIT SPECIFIC CONDITIONS

This permit addresses the following emissions units.

<u>E.U. ID No.</u>	<u>Brief Description</u>
-006	Combustion Turbine No. 3
-007	Combustion Turbine No. 4
-008	Combustion Turbine No. 5
-009	Combustion Turbine No. 6

1. This permit, 0310045-004-AC, is limited to the installation of four inlet foggers on Emission Units 006-009 as described in Permit 0310045-002-AV.
2. The provisions of Permit 0310045-002-AV remain in effect. However, an application shall be submitted to revise that permit to reflect the installation of four inlet foggers on Emission Units 006-009.
3. Inlet foggers may be installed at the compressor inlet to each of the four General Electric Model MS 7000 combustion turbine-electric generators. The four foggers may operate up to 4,000 hours per year in aggregate (average 1000 hours per unit per year). Maximum heat input shall not exceed 634 mmBtu/hr/unit and NOx emissions shall not exceed 300 lb/hr/unit at 90° F and 63 percent RH. This maximum heat input rate will vary depending upon ambient conditions and the combustion turbine characteristics. Manufacturer's curves corrected for site conditions or equations for correction to other ambient conditions shall be provided to the Department of Environmental Protection (DEP) within 45 days of completing the initial compliance testing after the foggers are installed. Thereafter, compliance shall be demonstrated as required in Rule 62-297.310(7). Nitrogen oxides emissions shall be demonstrated by a stack test on one representative turbine. Testing shall be performed each federal fiscal year, no later than September 30th. [Rule 62-296.570(4)(a)3, and (4)(b)5., F.A.C.]
4. The permittee shall record on a monthly basis in a written log the number of hours of operation for each evaporative cooling system and the total combined hours of operation for the previous 12 months for all four evaporative cooling systems. [Rule 62-4.160(15), F.A.C.]
5. The test method for visible emissions shall be EPA Method 9 and the test method for nitrogen oxides shall be EPA Method 7, incorporated and adopted by reference in Rule 62-204.800, F.A.C., and referenced in Chapter 62-297, F.A.C.[Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.; and, Part XI, Rule 2.1101, JEPB]



APPENDIX GC  
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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- G.1 The terms, conditions, requirements, limitations, and restrictions set forth in this permit are "Permit Conditions" and are binding and enforceable pursuant to Sections 403.161, 403.727, or 403.859 through 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
- G.2 This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings or exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
- G.3 As provided in Subsections 403.087(6) and 403.722(5), Florida Statutes, the issuance of this permit does not convey and vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations. This permit is not a waiver or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in the permit.
- G.4 This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
- G.5 This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
- G.6 The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed or used by the permittee to achieve compliance with the conditions of this permit, as required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
- G.7 The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at a reasonable time, access to the premises, where the permitted activity is located or conducted to:
- a) Have access to and copy and records that must be kept under the conditions of the permit;
  - b) Inspect the facility, equipment, practices, or operations regulated or required under this permit, and,
  - c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.
- Reasonable time may depend on the nature of the concern being investigated.
- G.8 If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:
- a) A description of and cause of non-compliance; and
  - b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the non-compliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the non-compliance.

**APPENDIX GC**  
GENERAL PERMIT CONDITIONS [F.A.C. 62-4.160]

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

- G.9 In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.73 and 403.111, Florida Statutes. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.
- G.10 The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance, provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.
- G.11 This permit is transferable only upon Department approval in accordance with Florida Administrative Code Rules 62-4.120 and 62-730.300, F.A.C., as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.
- G.12 This permit or a copy thereof shall be kept at the work site of the permitted activity.
- G.13 This permit also constitutes:
- a) Determination of Best Available Control Technology ( )
  - b) Determination of Prevention of Significant Deterioration ( ); and
  - c) Compliance with New Source Performance Standards ( ).
- G.14 The permittee shall comply with the following:
- a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.
  - b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application or this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.
  - c) Records of monitoring information shall include:
    - 1. The date, exact place, and time of sampling or measurements;
    - 2. The person responsible for performing the sampling or measurements;
    - 3. The dates analyses were performed;
    - 4. The person responsible for performing the analyses;
    - 5. The analytical techniques or methods used; and
    - 6. The results of such analyses.
- G.15 When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware that relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

### Section III. Emissions Unit(s) and Conditions.

Subsection C. This section addresses the following emissions units.

<u>E.U. ID No.</u>	<u>Brief Description</u>
-006	Combustion Turbine No. 3
-007	Combustion Turbine No. 4
-008	Combustion Turbine No. 5
-009	Combustion Turbine No. 6

Emissions units numbers 003, 004, 005 and 006 are combustion turbines (CTs) manufactured by General Electric (Model MS 7000) and are designated as CTs No. 3, No. 4, No. 5 and No. 6, respectively. Each CT has a maximum heat input from new No. 2 distillate fuel oil of 901.0 MMBtu (LHV: lower heating value). The No. 2 fuel oil has a maximum sulfur content of 0.5%, by weight. These CTs are used as peaking units during peak demand times, during emergencies, and during controls testing, to run a nominal 56.2 MW generator (each). Emissions from the CTs are uncontrolled. A group of exhaust stacks serve the CTs. CT No. 3 began commercial service in February 1975, No. 4 in January 1975, No. 5 in February 1974, and No. 6 in December 1974

{Permitting notes: These emissions units are regulated under Rule 62-210.300, F.A.C., Permits Required. These emissions units are not subject to 40 CFR 60, Subpart GG, Standards of Performance for New Stationary Gas Turbines.}

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

#### Essential Potential to Emit (PTE) Parameters

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

<u>Unit No.</u>	<u>MMBtu/hr Heat Input</u>	<u>Fuel Type</u>
3	901.0 (LHV)	New No. 2 Fuel Oil
4	901.0 (LHV)	New No. 2 Fuel Oil
5	901.0 (LHV)	New No. 2 Fuel Oil
6	901.0 (LHV)	New No. 2 Fuel Oil

{Permitting note: The heat input limitations have been placed in the permit to identify the capacity of each 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.}

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, AO16-173886]

C.2. Emissions Unit Operating Rate Limitation After Testing. See specific condition C.13. [Rule 62-297.310(2), F.A.C.]

C.3. Methods of Operation - Fuels. Only new No. 2 distillate fuel oil shall be fired in the combustion turbines.

[Rule 62-213.410(1), F.A.C.; and, AO16-173886]

C.4. Hours of Operation. These emissions unit(s) may operate continuously, i.e., 8,760 hours/year.

[Rules 62-4.160(2) and 62-210.200(PTE), F.A.C.; and, AO16-173886]

**Emission Limitations and Standards**

{Permitting Note: The attached Table 1-1, Summary of Air Pollutant Standards and Terms, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.5. Visible Emissions. Visible emissions from each combustion turbine shall not be equal to or greater than 20 percent opacity.

[Rule 62-296.320(4)(b)1., F.A.C.; and, AO16-173886]

C.6. Sulfur Dioxide - Sulfur Content. The sulfur content of the new No. 2 distillate fuel oil shall not exceed 0.5 percent, by weight. See specific conditions C.9. and C.12.

[Requested in initial Title V permit application dated June 14, 1996; and, AO16-173886]

**Excess Emissions**

C.7. Excess emissions from these emissions units resulting from startup, shutdown or malfunction 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.; and, Part III, Rule 2.301, JEPB]

C.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.; and, Part III, Rule 2.301, JEPB]

**Monitoring of Operations**

C.9. The permittee shall demonstrate compliance with the liquid fuel sulfur limit by means of a fuel analysis provided by the vendor upon each fuel delivery. See specific conditions C.6. and C.12.

[Rule 62-213.440, F.A.C.]

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.; and, Part XI, Rule 2.1101, JEPB]

### Test Methods and Procedures

{Permitting Note: The attached Table 2-1, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.11. The test method for visible emissions shall be EPA Method 9, incorporated and adopted by reference in Chapter 62-297, F.A.C.

[Rules 62-204.800, 62-296.320(4)(b)4.a. and 62-297.401, F.A.C.; and, Part XI, Rule 2.1101, JEPB]

C.12. 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.

[Rules 62-213.440 and 62-297.440, F.A.C.; and, Part XI, Rule 2.1101, JEPB]

C.13. Operating Rate During Testing. Testing of emissions shall be conducted with the emissions unit operating at permitted capacity. If it is impracticable to test at permitted capacity, an emissions unit may be tested at less than the minimum permitted capacity (i.e., at less than 90 percent of the maximum operation rate allowed by the permit); in this case, subsequent emissions unit operation is limited to 110 percent of the test load until a new test is conducted, provided however, operations do not exceed 100 percent of the maximum operation rate allowed by the permit. 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.

{Permitting note: Attached (see "Attachment NGS: CT Heat Input Nominal Values") is a chart of the "Base Load MW" vs "Temperature" to aid in defining "full load" for visible emissions testing purposes, since the manufacturer's curves are not available. The heat input numbers are only nominal values.}

[Rules 62-297.310(2), F.A.C.; and, Part XI, Rule 2.1101, JEPB]

C.14. Applicable Test Procedures.

(a) Required Sampling Time.

2. Opacity Compliance Tests. When 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.

[Rule 62-297.310(4)(a)2.c., F.A.C.; and, Part XI, Rule 2.1101, JEPB]

C.15. 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 C.16.);

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. (see specific condition C.16.)

9. The owner or operator shall notify the Department, at least 15 days prior to the date on which each formal compliance test is to begin, of the date, time, and place of each such test, and the test contact person who will be responsible for coordinating and having such test conducted for the owner or operator.

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

C.16. Visible Emissions Testing - Biennial. By this permit, biennial (odd years) emissions compliance testing for visible emissions is required for each emissions unit, but is not required for those emissions units burning No. 2 fuel oil for less than 400 hours during the previous even year or the current odd year in question. (see specific conditions C.15.(a)4.a. & 8.)  
[Rules 62-297.310(7)(a)4. & 8., F.A.C.; Part XI, Rule 2.1101, JEPB; and, AO16-173880]

**Recordkeeping and Reporting Requirements**

C.17. Malfunction Reporting. In the case of excess emissions resulting from malfunctions, each owner or operator shall notify the AWQD 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 AWQD.  
[Rule 62-210.700(6), F.A.C.; and, Part III, Rule 2.301, JEPB]

C.18. Test Reports.

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

(b) The required test report shall be filed with the AWQD 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.; and, Part XI, Rule 2.1101, JEPB]

C.19. Records of No. 2 fuel oil consumption shall be maintained and made available to AWQD upon request.

[Rule 62-213.440, F.A.C.; and, AO16-173886]

ATTACHMENT B  
STACK TEST RESULTS





**TECHNICAL SERVICES, INC.**

**(904) 353-5761**

**2901 Danese Street**


**Jacksonville, Florida 32206**

**Source Test Report**

**Jacksonville Electric Authority  
Jacksonville, FL.  
Northside Generating Station  
CT-5  
NOx O2  
5/23/01**

**Prepared By:**

**Technical Services, Inc.  
2901 Danese Street  
Post Office Box 52329  
Jacksonville, Florida 32201  
(904) 353 - 5761**

  
\_\_\_\_\_  
**David Salter**

**USE OF THIS REPORT AND  
INFORMATION INCLUDED**

This Report and the information contained is the property of the individual or organization named on the face hereof and may be freely distributed in its present form.

**REPORT CERTIFICATION**

Technical Services, Inc. (TSI) has used its professional experience and best professional efforts in performing this compliance test. I have reviewed the results of these tests and to the best of my knowledge and belief they are true and correct.

REPORT NO.

0105 A06

Harvey C. Gray, Jr.

HARVEY C. GRAY, JR.

DATE:

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## I. Introduction

Ambient Air Services Inc., was subcontracted to test for NOx and O2 on the CT-5 Turbine at the JEA Northside Generating Station, in Jacksonville, FL. The results appear in the following table. Analytical data appears in Appendix A.

<b>JEA - NGS #5 TURBINE WITH FOGGERS <u>ON</u></b>			
	<b>CORRECTED</b>		<b>CORRECTED TO 15 % O2</b>
	<b>NOX PPM</b>	<b>O2 %</b>	<b>NOX PPM</b>
RUN 1 Average	123.9	15.7	140.0
RUN 2 Average	121.7	15.8	139.8
RUN 3 Average	125.1	15.6	140.1
RUN 4 Average	123.6	15.6	137.4
RUN 5 Average	117.0	15.6	129.9
RUN 6 Average	113.0	15.6	125.2
RUN 7 Average	114.4	15.6	126.4
RUN 8 Average	116.2	15.6	128.6
RUN 9 Average	115.7	15.5	127.2
<b>TEST AVERAGE</b>	<b>119.1</b>	<b>15.6</b>	<b>132.9</b>
<b>JEA - NGS #5 TURBINE WITH FOGGERS <u>OFF</u></b>			
RUN 1 Average	141.5	15.7	162.0
RUN 2 Average	142.4	15.6	158.7
RUN 3 Average	143.1	15.6	159.8
RUN 4 Average	144.0	15.7	162.5
RUN 5 Average	146.7	15.8	168.3
RUN 6 Average	138.4	15.6	153.5
RUN 7 Average	137.1	15.7	155.0
RUN 8 Average	136.1	15.6	150.8
RUN 9 Average	133.7	15.7	151.2
<b>TEST AVERAGE</b>	<b>140.3</b>	<b>15.7</b>	<b>158.0</b>



### III. Field and Analytical Procedures



METHOD 3A  
DETERMINATION OF OXYGEN AND CARBON DIOXIDE CONCENTRATIONS  
IN EMISSIONS FROM STATIONARY SOURCES  
[INSTRUMENTAL ANALYZER PROCEDURE]

1. Applicability and Principle

1.1 Applicability. This method is applicable to the determination of oxygen ( $O_2$ ) and carbon dioxide ( $CO_2$ ) concentrations in emissions from stationary sources only when specified within the regulations.

1.2 Principle. A sample is continuously extracted from the effluent stream: a portion of the sample stream is conveyed to an instrumental analyzer(s) for determination of  $O_2$  and  $CO_2$  concentration(s). Performance specifications and test procedures are provided to ensure reliable data.

2. Range and Sensitivity

Same as in Method 6C, Sections 2.1 and 2.2 except that the span of the monitoring system shall be selected such that the average  $O_2$  or  $CO_2$  concentration is not less than 20 percent of the span.

3. Definitions

3.1 Measurement System. The total equipment required for the determination of the  $O_2$  or  $CO_2$  concentration. The measurement system consists of the same major subsystems as defined in Method 6C, Sections 3.1.1, 3.1.2, and 3.1.3.

3.2 Span, Calibration Gas, Analyzer Calibration error, Sampling System Bias, Zero Drift, Calibration Drift, Response Time, and Calibration Curve. Same as in Method 6C, Sections 3.2 through 3.8, and 3.10.

3.3 Interference Response. The output response of the measurement system to a component in the sample gas, other than the gas component being measured.

4. Measurement System Performance Specifications



Same as in Method 6C, Sections 4.1 through 4.4.

## 5. Apparatus and Reagents

5.1 Measurement System. Any measurement system for O<sub>2</sub> or CO<sub>2</sub> that meets the specifications of this method. A schematic of an acceptable measurement system is shown in Figure 6C-1 of Method 6C. The essential components of the measurement systems are described below:

5.1.1 Sample Probe. A leak-free probe of sufficient length to traverse the sample points.

5.1.2 Sample Line. Tubing to transport the sample gas from the probe to the moisture removal system. A heated sample line is not required for systems that measure the O<sub>2</sub> or CO<sub>2</sub> concentration on a dry basis, or transport dry gases.

5.1.3 Sample Transport Line, Calibration Valve Assembly, Moisture Removal System, Particulate Filter, Sample Pump, Sample Flow Rate Control, Sample Gas Manifold, and Data Recorder. Same as in Method 6C, Sections 5.1.3 through 5.1.9, and 5.1.11, except that the requirements to use stainless steel, Teflon, and nonreactive glass filter do not apply.

5.1.4 Gas Analyzer. An analyzer to determine continuously the O<sub>2</sub> or CO<sub>2</sub> concentration in the sample gas stream. The analyzer must meet the applicable performance specifications of Section 4. A means of controlling the analyzer flow rate and a device for determining proper sample flow rate (e.g., precision rotameter, pressure gauge downstream of all flow controls, etc.) shall be provided at the analyzer. The requirements for measuring and controlling the analyzer for measuring and controlling the analyzer flow rate are not applicable if data are presented that demonstrate the analyzer is insensitive to flow variations over the range encountered during the test.

5.2 Calibration Gases. The calibration gases for CO<sub>2</sub> analyzers shall be CO<sub>2</sub> in N<sub>2</sub> or CO<sub>2</sub> in air. Alternatively, CO<sub>2</sub>/SO<sub>2</sub>, O<sub>2</sub>/SO<sub>2</sub>, or O<sub>2</sub>/CO<sub>2</sub>/SO<sub>2</sub> gas mixtures in N<sub>2</sub> may be used. Three calibration gases, as specified in Sections 5.3.1 through 5.3.4 of Method 6C, shall be used. For O<sub>2</sub> monitors that cannot analyze zero gas, a calibration gas concentration equivalent to less than 10 percent of the span may be used in place of zero gas.

## 6. Measurement System Performance Test Procedures

Perform the following procedures before measurement of emissions (Section 7).

6.1 Calibration Concentration Verification. Follow Section 6.1 of Method 6C, except if calibration gas analysis is required, use Method 3 and change the acceptance criteria for agreement among Method 3 results to 5 percent (or 0.2 percent by volume, whichever is greater).

6.2 Interference Response. Conduct an interference response test of the analyzer prior to its initial use in the field. Thereafter, recheck the measurement system if changes are made in the instrumentation that could alter the interference response (e.g., changes in the type of gas detector). Conduct the interference response in accordance with Section 5.4 of Method 20.

6.3 Measurement System Preparation, Analyzer Calibration Error, Response Time, and Sampling System Bias Check. Follow Sections 6.2 through 6.4 of Method 6C.

## 7. Emission Test Procedure

7.1 Selection of Sampling Site and Sampling Points. Select a measurement site and sampling points using the same criteria that are applicable to tests performed using Method 3.

7.2 Sample Collection. Position the sampling probe at the first measurement point, and begin sampling at the same rate as that used during the response time test. Maintain constant rate sampling (i.e.,  $\pm 10$  percent) during the entire run. The sampling time per run shall be the same as for tests conducted using Method 3 plus twice the average system response time. For each run, use only those measurements obtained after twice the response time of the measurement system has elapsed to determine the average effluent concentration.

7.3 Zero and Calibration Drift Test. Follow Section 7.4 of Method 6C.

## 8. Quality Control Procedures

The following quality control procedures are recommended when the results of this method are used for an emission rate correction factor, or excess air determination. The tester should select one of the following options for validating measurement results:

8.1 If both O<sub>2</sub> and CO<sub>2</sub> are measured using Method 3A, the procedures described in Section 4.4 of Method 3 should be followed to validate the O<sub>2</sub> and CO<sub>2</sub> measurement results.

8.2 If only O<sub>2</sub> is measured using Method 3A, measurements of the sample stream CO<sub>2</sub> concentration should be obtained at the sample by-pass vent discharge using an Orsat or Fyrite analyzer, or equivalent. Duplicate samples should be obtained concurrent with at least one run. Average the duplicate Orsat or Fyrite analysis results for each run. Use the average CO<sub>2</sub> values for comparison with the O<sub>2</sub> measurements in accordance with the procedures described in Section 4.4 of Method 3.

8.3 If only CO<sub>2</sub> is measured using Method 3A, concurrent measurements of the sample stream CO<sub>2</sub> concentration should be obtained using an Orsat or Fyrite analyzer as described in section 8.2. For each run, differences greater than 0.5 percent between the Method 3A results and the average of the duplicate Fyrite analysis should be investigated.

## 9. Emission Calculation

9.1 For all CO<sub>2</sub> analyzers, and for O<sub>2</sub> analyzers that can be calibrated with zero gas, follow Section 8 of Method 6C, except express all concentrations as percent, rather than ppm.

9.2 For O<sub>2</sub> analyzers that use a low-level calibration gas in place of a zero gas, calculate the effluent gas concentration using Equation 3A-1.

$$C_{\text{gas}} = \frac{C_{\text{ma}} - C_{\text{oa}} (C - C_{\text{m}})}{C_{\text{m}} - C_{\text{o}}} + C_{\text{ma}} \quad (\text{Equation 3A-1})$$

Where:

$C_{\text{gas}}$  = Effluent gas concentration, dry basis, percent.

$C_{\text{ma}}$  = Actual concentration of the upscale calibration gas, percent.

$C_{\text{oa}}$  = Actual concentration of the low-level calibration gas, percent.

$C_{\text{m}}$  = Average of initial and final system calibration bias check responses for the upscale calibration gas, percent.

$C_{\text{o}}$  = Average of initial and final system calibration bias check responses for the low level gas, percent.

$\bar{C}$  = Average gas concentration indicated by the gas analyzer,  
dry basis, percent.

10. Bibliography

Same as in Bibliography of Method 6C.

METHOD 7E

DETERMINATION OF NITROGEN OXIDES  
EMISSIONS FROM STATIONARY SOURCES

1. Applicability and Principle

1.1 Applicability. This method is applicable to the determination of nitrogen oxides ( $\text{NO}_x$ ) concentrations in emissions from stationary sources only when specified within the regulations.

1.2 Principle. A gas sample is continuously extracted from a stack, and a portion of the sample is conveyed to an instrumental chemiluminescent analyzer for determination of  $\text{NO}_x$  concentration. Performance specifications and test procedures are provided to ensure reliable data.

2. Range and Sensitivity

Same as Method 6C, Sections 2.1 and 2.2.

3. Definitions

3.1 Measurement System. The total equipment required for the determination of  $\text{NO}_x$  concentration. The measurement system consists of the following major subsystems:

3.1.1 Sample Interface, Gas Analyzer, and Data Recorder.

Same as Method 6C, Sections 3.1.1, 3.1.2, and 3.1.3.

3.1.2  $\text{NO}_2$  To NO Converter. A device that converts the nitrogen dioxide ( $\text{NO}_2$ ) in the sample gas to nitrogen oxide (NO).

3.2 Span, Calibration Gas, Analyzer Calibration Error, Sampling System Bias, Zero Drift, Calibration Drift, and Response Time. Same as Method 6C, Sections 3.2 through 3.8.

3.3 Interference Response. The output response of the measurement system to a component in the sample gas, other than the gas component being measured.

4. Measurement System Performance Specifications.

Same as Method 6C, Sections 4.1 through 4.4.

5. Apparatus and Reagents.

5.1 Measurement System. Any measurement system for  $\text{NO}_x$  that meets the specifications of this method. A schematic of an acceptable measurement system is shown in Figure 6C-1 of Method 6C. The essential components of the measurement system are described below:

5.1.1 Sample Probe, Sample Line, Calibration Valve Assembly, Moisture Removal System, Particulate Filter, Sample Pump, Sample Flow Rate Control, Sample Gas Manifold, and Data Recorder. Same as Method 6C, Sections 5.1.1 through 5.1.9, and 5.1.11.

5.1.2  $\text{NO}_2$  to  $\text{NO}$  Converter. That portion of the system that converts the nitrogen dioxide ( $\text{NO}_2$ ) in the sample gas to nitrogen oxide ( $\text{NO}$ ). An  $\text{NO}_2$  to  $\text{NO}$  converter is not necessary if data are presented to demonstrate that the  $\text{NO}_2$  portion of the exhaust gas is less than 5 percent of the total  $\text{NO}_x$  concentration.

5.1.3  $\text{NO}_x$  Analyzer. An analyzer based on the principles of chemiluminescence, to determine continuously the  $\text{NO}_x$  concentration in the same gas stream. The analyzer shall meet the applicable performance specifications of Section 4. A means of controlling the analyzer flow rate and device for determining proper sample flow rate (e.g., precision rotameter, pressure gauge down-stream of all flow controls, etc.) shall be provided at the analyzer.

5.2  $\text{NO}_x$  Calibration Gases. The calibration gases for the  $\text{NO}_x$  analyzer shall be  $\text{NO}$  in  $\text{N}_2$ . Three calibration gases, as specified in Section 5.3.1 through 5.3.3 of Method 6C, shall be used. Ambient air may be used for the zero gas.

6. Measurement System Performance Test Procedures.

Perform the following procedures before measurement of emissions (Section 7).

6.1 Calibration Gas Concentration Verification. Follow Section 6.1 of Method 6C, except if calibration gas analysis is required, use Method 7, and change all 5 percent performance values to 10 percent (or 10 ppm, whichever is greater).

6.2 Interference Response. Conduct an interference response test of the analyzer prior to its initial use in the field. Thereafter, recheck the measurement system if changes are made in the instrumentation that could alter the interference response (e.g., changes in the gas detector). Conduct the interference response in accordance with Section 5.4 of Method 20.

6.3 Measurement System Preparation, Analyzer Calibration Error, and sample System Bias Check. Follow Sections 6.2 through 6.4 of Method 6C.

6.4 NO<sub>2</sub> to NO Conversion Efficiency. Unless data are presented to demonstrate that the NO<sub>2</sub> concentration within the sample stream is not greater than 5 percent of the NO<sub>x</sub> concentration, conduct an NO<sub>2</sub> to NO conversion efficiency test in accordance with Section 5.6 of Method 20.

7. Emission Test Procedure.

7.1 Selection of Sampling Site and Sampling Points. Select a measurement site and sampling points using the same criteria that are applicable to tests performed using Method 7.

7.2 Sample Collection. Position the sampling probe at the first measurement point, and begin sampling at the same rate as used during the system calibration drift test. Maintain constant rate sampling (i.e.,  $\pm 10$  percent) during the entire run. The sampling time per run shall be the same as the total time required to perform a run using Method 7, plus twice the system response time. For each run, use only those measurements obtained after twice the response time of the measurement system has elapsed, to determine the average effluent concentration.

7.3 Zero and Calibration Drift Test. Follow Section 7.4 of Method 6C.

8. Emission Calculation

Follow Section 8 of Method 6C.

9. Bibliography

Same as bibliography of Method 6C.

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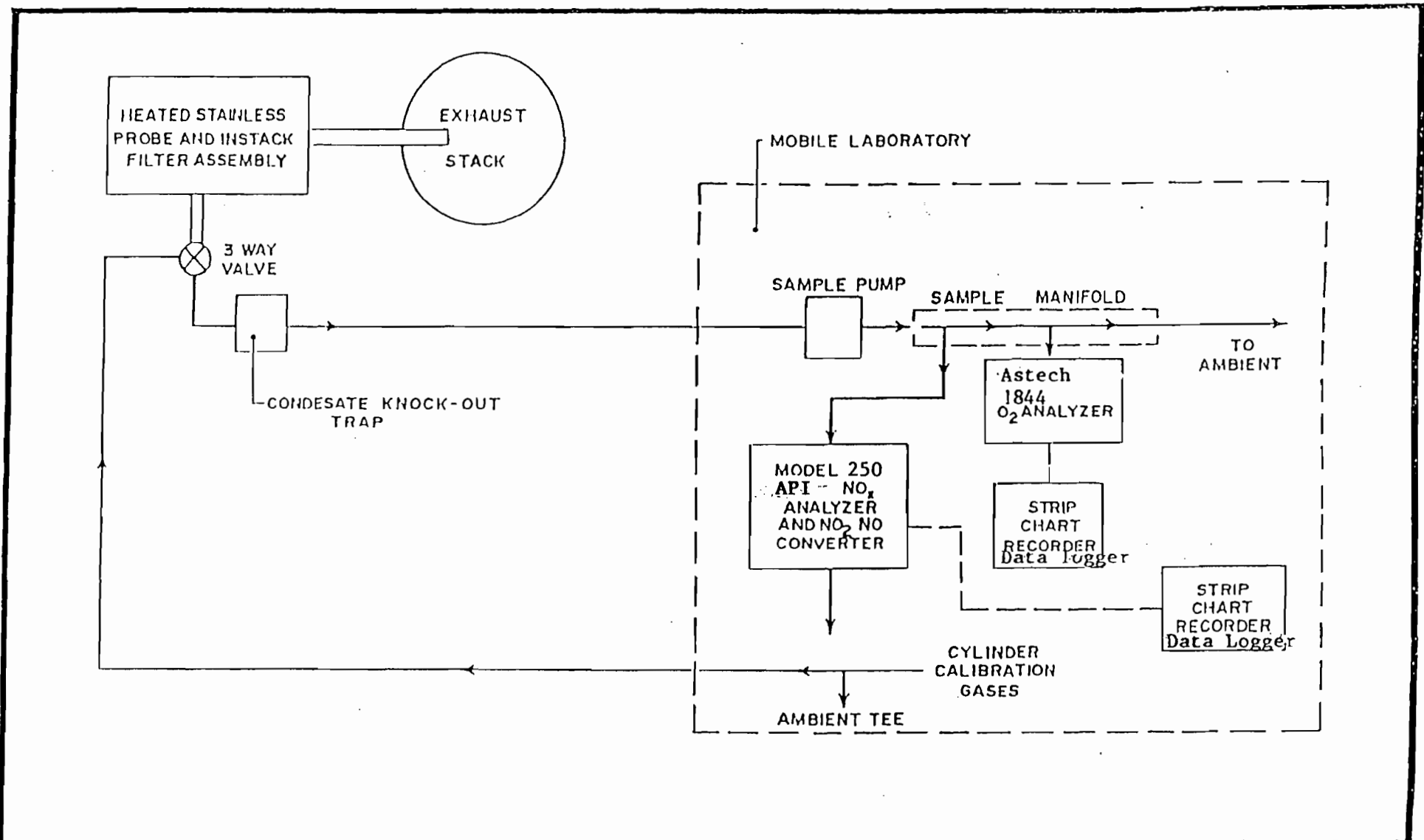


FIGURE 3  
EPA METHOD 7E SAMPLING SCHEMATIC

TECHNICAL  
SERVICES, INC.



**APPENDIX A**  
**DATA LOGGER DATA**

**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	14:30:00	136.55	15.59	STANDBY								
05/22/01	14:30:05	136.74	15.59	STANDBY								
05/22/01	14:30:10	136.55	15.56	STANDBY								
05/22/01	14:30:15	136.74	15.59	STANDBY								
05/22/01	14:30:20	137.14	15.56	STANDBY								
05/22/01	14:30:25	136.55	15.56	STANDBY								
05/22/01	14:30:30	136.35	15.59	STANDBY								
05/22/01	14:30:35	135.76	15.59	STANDBY								
05/22/01	14:30:40	134.78	15.59	STANDBY								
05/22/01	14:30:45	134.78	15.59	STANDBY								
05/22/01	14:30:50	134.96	15.59	STANDBY								
05/22/01	14:30:55	134.20	15.62	STANDBY								
05/22/01	14:31:00	135.18	15.62	STANDBY								
05/22/01	14:31:05	132.43	15.62	STANDBY								
05/22/01	14:31:10	133.80	15.66	STANDBY								
05/22/01	14:31:15	135.57	15.62	STANDBY								
05/22/01	14:31:20	134.59	15.59	STANDBY								
05/22/01	14:31:25	131.65	15.62	STANDBY								
05/22/01	14:31:30	131.65	15.69	STANDBY								
05/22/01	14:31:35	134.20	15.66	STANDBY								
05/22/01	14:31:40	132.82	15.66	STANDBY								
05/22/01	14:31:45	130.86	15.69	STANDBY								
05/22/01	14:31:50	132.43	15.69	STANDBY								
05/22/01	14:31:55	133.41	15.66	STANDBY								
05/22/01	14:32:00	133.61	15.66	STANDBY								
05/22/01	14:32:06	134.00	15.66	STANDBY								
05/22/01	14:32:10	134.96	15.62	STANDBY								
05/22/01	14:32:15	134.59	15.59	STANDBY								
05/22/01	14:32:20	134.59	15.59	STANDBY								
05/22/01	14:32:25	133.22	15.62	STANDBY								
05/22/01	14:32:30	133.22	15.62	STANDBY								
05/22/01	14:32:35	131.65	15.66	STANDBY								
05/22/01	14:32:40	131.45	15.69	STANDBY								
05/22/01	14:32:45	132.24	15.69	STANDBY								
05/22/01	14:32:50	133.41	15.69	STANDBY								
05/22/01	14:32:55	132.82	15.66	STANDBY								
05/22/01	14:33:00	134.00	15.66	STANDBY								
05/22/01	14:33:06	135.18	15.59	STANDBY								
05/22/01	14:33:10	134.39	15.59	STANDBY								
05/22/01	14:33:15	132.43	15.62	STANDBY								
05/22/01	14:33:20	132.63	15.66	STANDBY								
05/22/01	14:33:25	132.04	15.66	STANDBY								
05/22/01	14:33:30	127.34	15.72	STANDBY								
05/22/01	14:33:35	131.26	15.75	STANDBY								
05/22/01	14:33:40	130.67	15.72	STANDBY								
05/22/01	14:33:45	127.53	15.78	STANDBY								
05/22/01	14:33:50	128.71	15.81	STANDBY								
05/22/01	14:33:55	128.12	15.84	STANDBY								
05/22/01	14:34:00	131.26	15.81	STANDBY								
05/22/01	14:34:05	133.41	15.75	STANDBY								
05/22/01	14:34:10	131.45	15.72	STANDBY								
05/22/01	14:34:15	133.22	15.72	STANDBY								
05/22/01	14:34:20	133.80	15.66	STANDBY								
05/22/01	14:34:25	132.24	15.69	STANDBY								
05/22/01	14:34:30	134.39	15.66	STANDBY								
05/22/01	14:34:35	134.59	15.62	STANDBY								
05/22/01	14:34:40	134.20	15.59	STANDBY								
05/22/01	14:34:45	131.26	15.62	STANDBY								
05/22/01	14:34:50	130.86	15.62	STANDBY								
05/22/01	14:34:55	128.12	15.62	STANDBY								
05/22/01	14:35:00	127.73	15.59	STANDBY								
05/22/01	14:35:05	128.12	15.59	STANDBY								
05/22/01	14:35:10	129.30	15.56	STANDBY								
05/22/01	14:35:15	128.91	15.53	STANDBY								
05/22/01	14:35:20	127.34	15.53	STANDBY								
05/22/01	14:35:25	127.34	15.56	STANDBY								
05/22/01	14:35:30	128.51	15.56	STANDBY								
05/22/01	14:35:35	129.88	15.53	STANDBY								
05/22/01	14:35:40	130.28	15.47	STANDBY								
05/22/01	14:35:45	130.28	15.47	STANDBY								
05/22/01	14:35:50	129.30	15.47	STANDBY								
05/22/01	14:35:55	127.93	15.47	STANDBY								
05/22/01	14:36:00	126.36	15.47	STANDBY								
05/22/01	14:36:05	125.38	15.47	STANDBY								
05/22/01	14:36:10	125.38	15.47	STANDBY								
05/22/01	14:36:15	124.59	15.47	STANDBY								
05/22/01	14:36:20	125.97	15.47	STANDBY								
05/22/01	14:36:25	125.57	15.44	STANDBY								
05/22/01	14:36:30	125.57	15.44	STANDBY								
05/22/01	14:36:35	125.57	15.44	STANDBY								
05/22/01	14:36:40	126.16	15.44	STANDBY								
05/22/01	14:36:45	126.36	15.44	STANDBY								
05/22/01	14:36:50	125.77	15.44	STANDBY								
05/22/01	14:36:55	124.99	15.44	STANDBY								
05/22/01	14:37:00	125.57	15.44	STANDBY								
05/22/01	14:37:05	125.38	15.44	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	14:37:10	125.57	15.44	STANDBY								
05/22/01	14:37:15	125.97	15.44	STANDBY								
05/22/01	14:37:20	126.16	15.41	STANDBY								
05/22/01	14:37:25	124.99	15.44	STANDBY								
05/22/01	14:37:30	123.61	15.44	STANDBY								
05/22/01	14:37:35	122.83	15.47	STANDBY								
05/22/01	14:37:40	124.99	15.47	STANDBY								
05/22/01	14:37:45	124.99	15.47	STANDBY								
05/22/01	14:37:50	125.77	15.47	STANDBY								
05/22/01	14:37:55	125.57	15.44	STANDBY								
05/22/01	14:38:00	124.99	15.44	STANDBY								
05/22/01	14:38:05	125.38	15.44	STANDBY								
05/22/01	14:38:10	125.97	15.41	STANDBY								
05/22/01	14:38:15	125.77	15.41	STANDBY								
05/22/01	14:38:20	125.38	15.41	STANDBY								
05/22/01	14:38:25	125.18	15.41	STANDBY								
05/22/01	14:38:30	125.57	15.41	STANDBY								
05/22/01	14:38:35	125.57	15.41	STANDBY								
05/22/01	14:38:40	125.38	15.41	STANDBY								
05/22/01	14:38:45	124.79	15.41	STANDBY								
05/22/01	14:38:50	124.79	15.44	STANDBY								
05/22/01	14:38:55	125.57	15.44	STANDBY								
05/22/01	14:39:00	124.99	15.44	STANDBY								
05/22/01	14:39:05	124.99	15.44	STANDBY								
05/22/01	14:39:10	125.38	15.41	STANDBY								
05/22/01	14:39:15	125.57	15.41	STANDBY								
05/22/01	14:39:20	125.18	15.41	STANDBY								
05/22/01	14:39:25	124.99	15.41	STANDBY								
05/22/01	14:39:30	125.57	15.41	STANDBY								
05/22/01	14:39:35	124.20	15.41	STANDBY								
05/22/01	14:39:40	123.81	15.44	STANDBY								
05/22/01	14:39:45	124.01	15.44	STANDBY								
05/22/01	14:39:50	124.59	15.44	STANDBY								
05/22/01	14:39:55	124.99	15.44	STANDBY								
05/22/01	14:40:00	125.77	15.41	STANDBY								
05/22/01	14:40:05	125.77	15.41	STANDBY								
05/22/01	14:40:10	125.77	15.41	STANDBY								
05/22/01	14:40:15	125.38	15.37	STANDBY								
05/22/01	14:40:20	125.38	15.37	STANDBY								
05/22/01	14:40:25	124.79	15.37	STANDBY								
05/22/01	14:40:30	124.99	15.41	STANDBY								
05/22/01	14:40:35	124.59	15.41	STANDBY								
05/22/01	14:40:40	124.40	15.41	STANDBY								
05/22/01	14:40:45	124.99	15.41	STANDBY								
05/22/01	14:40:50	124.20	15.41	STANDBY								
05/22/01	14:40:55	122.83	15.44	STANDBY								
05/22/01	14:41:00	124.20	15.47	STANDBY								
05/22/01	14:41:05	123.42	15.47	STANDBY								
05/22/01	14:41:10	122.83	15.47	STANDBY								
05/22/01	14:41:15	123.81	15.47	STANDBY								
05/22/01	14:41:20	124.59	15.47	STANDBY								
05/22/01	14:41:25	124.01	15.44	STANDBY								
05/22/01	14:41:30	124.01	15.47	STANDBY								
05/22/01	14:41:35	123.42	15.47	STANDBY								
05/22/01	14:41:40	121.26	15.47	STANDBY								
05/22/01	14:41:45	120.48	15.56	STANDBY								
05/22/01	14:41:50	122.24	15.53	STANDBY								
05/22/01	14:41:55	121.85	15.53	STANDBY								
05/22/01	14:42:00	123.03	15.53	STANDBY								
05/22/01	14:42:05	124.01	15.47	STANDBY								
05/22/01	14:42:10	124.40	15.47	STANDBY								
05/22/01	14:42:15	123.22	15.47	STANDBY								
05/22/01	14:42:20	122.44	15.47	STANDBY								
05/22/01	14:42:25	123.22	15.47	STANDBY								
05/22/01	14:42:30	123.03	15.47	STANDBY								
05/22/01	14:42:35	121.46	15.50	STANDBY								
05/22/01	14:42:40	122.24	15.50	STANDBY								
05/22/01	14:42:45	121.85	15.47	STANDBY								
05/22/01	14:42:50	120.67	15.41	STANDBY								
05/22/01	14:42:55	119.11	15.34	STANDBY								
05/22/01	14:43:00	81.48	15.34	STANDBY								
05/22/01	14:43:05	40.13	15.53	STANDBY								
05/22/01	14:43:10	21.13	16.47	STANDBY								
05/22/01	14:43:15	5.25	17.57	STANDBY								
05/22/01	14:43:20	3.88	18.57	STANDBY								
05/22/01	14:43:25	1.53	19.29	STANDBY								
05/22/01	14:43:30	25.44	19.73	STANDBY								
05/22/01	14:43:35	109.11	18.98	STANDBY								
05/22/01	14:43:40	94.42	17.41	STANDBY								
05/22/01	14:43:45	50.52	16.03	STANDBY								
05/22/01	14:43:50	21.32	13.68	STANDBY								
05/22/01	14:43:55	9.37	10.96	STANDBY								
05/22/01	14:44:00	4.27	8.76	STANDBY								
05/22/01	14:44:05	2.31	7.29	STANDBY								
05/22/01	14:44:10	1.14	6.35	STANDBY								
05/22/01	14:44:15	0.94	5.75	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 18% O2
05/22/01	14:44:20	0.75	5.41	STANDBY								
05/22/01	14:44:25	0.75	5.22	STANDBY								
05/22/01	14:44:30	0.75	5.06	STANDBY								
05/22/01	14:44:35	0.35	5.00	STANDBY								
05/22/01	14:44:40	0.35	4.94	STANDBY								
05/22/01	14:44:45	0.35	4.91	STANDBY								
05/22/01	14:44:50	0.35	4.88	STANDBY								
05/22/01	14:44:55	0.35	4.85	STANDBY								
05/22/01	14:45:00	0.35	4.85	STANDBY								
05/22/01	14:45:05	0.35	4.81	STANDBY								
05/22/01	14:45:10	0.35	4.81	STANDBY								
05/22/01	14:45:15	0.35	4.81	STANDBY								
05/22/01	14:45:20	0.35	4.81	STANDBY								
05/22/01	14:45:25	0.35	4.78	STANDBY								
05/22/01	14:45:30	0.35	4.78	STANDBY								
05/22/01	14:45:35	0.35	4.78	STANDBY								
05/22/01	14:45:40	0.35	4.78	STANDBY								
05/22/01	14:45:45	0.35	4.78	STANDBY								
05/22/01	14:45:50	0.35	4.78	STANDBY								
05/22/01	14:45:55	0.35	4.78	STANDBY								
05/22/01	14:46:00	0.16	4.78	STANDBY								
05/22/01	14:46:05	0.16	4.78	STANDBY								
05/22/01	14:46:10	0.16	4.78	STANDBY								
05/22/01	14:46:15	0.16	4.78	STANDBY								
05/22/01	14:46:20	0.16	4.78	STANDBY								
05/22/01	14:46:25	0.35	4.78	STANDBY								
05/22/01	14:46:30	0.35	4.75	STANDBY								
05/22/01	14:46:35	0.35	4.75	STANDBY								
05/22/01	14:46:40	0.18	4.75	STANDBY								
05/22/01	14:46:45	0.16	4.75	STANDBY								
05/22/01	14:46:50	0.35	4.75	STANDBY								
05/22/01	14:46:55	0.16	4.75	STANDBY								
05/22/01	14:47:00	0.16	4.75	STANDBY								
05/22/01	14:47:05	0.35	4.75	STANDBY								
05/22/01	14:47:10	0.16	4.75	STANDBY								
05/22/01	14:47:15	0.16	4.75	STANDBY								
05/22/01	14:47:20	0.16	4.75	STANDBY								
05/22/01	14:47:25	0.16	4.75	STANDBY								
05/22/01	14:47:30	0.16	4.75	STANDBY								
05/22/01	14:47:35	0.16	4.75	STANDBY								
05/22/01	14:47:40	0.16	4.75	STANDBY								
05/22/01	14:47:45	0.16	4.75	STANDBY								
05/22/01	14:47:50	0.16	4.75	STANDBY								
		95.25	13.29	STANDBY Average								
05/22/01	14:47:55	0.16	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:00	0.16	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:05	0.16	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:10	0.16	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:15	0.16	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:20	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:25	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:30	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:35	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:40	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:45	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:50	0.35	4.75	4.97% O2, 0 NOX								
05/22/01	14:48:55	0.35	4.81	4.97% O2, 0 NOX								
05/22/01	14:49:00	0.35	4.81	4.97% O2, 0 NOX								
05/22/01	14:49:05	0.35	4.81	4.97% O2, 0 NOX								
05/22/01	14:49:10	0.35	4.81	4.97% O2, 0 NOX								
05/22/01	14:49:15	0.35	4.81	4.97% O2, 0 NOX								
05/22/01	14:49:20	0.35	4.81	4.97% O2, 0 NOX								
		0.30	4.77	4.97% O2, 0 NOX Average								
05/22/01	14:49:25	0.35	4.88	STANDBY								
05/22/01	14:49:30	0.35	7.85	STANDBY								
05/22/01	14:49:35	0.35	13.24	STANDBY								
05/22/01	14:49:40	0.35	16.66	STANDBY								
05/22/01	14:49:45	0.35	18.48	STANDBY								
05/22/01	14:49:50	0.35	19.45	STANDBY								
05/22/01	14:49:55	4.66	20.01	STANDBY								
05/22/01	14:50:00	36.61	20.33	STANDBY								
05/22/01	14:50:05	80.11	20.51	STANDBY								
05/22/01	14:50:10	111.86	20.67	STANDBY								
05/22/01	14:50:15	132.24	20.73	STANDBY								
05/22/01	14:50:20	146.74	20.90	STANDBY								
05/22/01	14:50:25	157.32	20.83	STANDBY								
05/22/01	14:50:30	164.77	20.89	STANDBY								
05/22/01	14:50:35	169.67	20.89	STANDBY								
05/22/01	14:50:40	172.41	20.92	STANDBY								
05/22/01	14:50:45	173.78	20.92	STANDBY								
05/22/01	14:50:50	174.56	20.95	STANDBY								
05/22/01	14:50:55	174.96	20.95	STANDBY								
05/22/01	14:51:00	174.96	20.95	STANDBY								
		93.84	16.54	STANDBY Average								
05/22/01	14:51:05	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:10	175.15	20.98	175.7 NOX, 20.9 O2								

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DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	14:51:15	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:20	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:25	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:30	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:35	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:40	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:45	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:50	175.94	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:51:55	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:00	175.94	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:05	176.13	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:10	176.13	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:15	176.33	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:20	176.33	20.98	175.7 NOX, 20.9 O2								
05/22/01	14:52:25	176.33	20.98	175.7 NOX, 20.9 O2								
		175.77	20.98	175.7 NOX, 20.9 O2 Average								
05/22/01	14:52:30	173.58	20.98	STANDBY								
05/22/01	14:52:35	159.08	20.98	STANDBY								
05/22/01	14:52:40	132.82	20.98	STANDBY								
05/22/01	14:52:45	106.17	20.98	STANDBY								
05/22/01	14:52:50	93.24	20.98	STANDBY								
05/22/01	14:52:55	88.14	20.98	STANDBY								
05/22/01	14:53:00	86.19	20.98	STANDBY								
05/22/01	14:53:05	85.60	20.98	STANDBY								
		115.60	20.98	STANDBY Average								
05/22/01	14:53:10	85.01	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:15	85.01	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:20	84.81	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:25	84.81	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:30	84.81	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:35	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:40	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:45	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:50	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:53:55	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:00	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:05	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:10	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:15	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:20	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:25	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:30	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:35	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:40	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:45	84.81	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:50	84.82	20.98	84.96 NOX, 20.9 O2								
05/22/01	14:54:55	84.82	20.98	84.96 NOX, 20.9 O2								
		84.69	20.98	84.96 NOX, 20.9 O2 Average								
05/22/01	14:55:00	82.66	20.98	STANDBY								
05/22/01	14:55:05	69.33	20.98	STANDBY								
05/22/01	14:55:10	56.59	20.98	STANDBY								
05/22/01	14:55:15	50.91	20.98	STANDBY								
05/22/01	14:55:20	48.95	20.98	STANDBY								
05/22/01	14:55:25	48.17	20.98	STANDBY								
05/22/01	14:55:30	47.78	20.98	STANDBY								
05/22/01	14:55:35	47.78	20.98	STANDBY								
		56.52	20.98	STANDBY Average								
05/22/01	14:55:40	47.58	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:55:45	47.58	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:55:50	47.58	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:55:55	47.58	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:00	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:05	47.58	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:10	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:15	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:20	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:25	47.19	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:30	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:35	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:40	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:45	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:50	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:56:55	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:00	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:05	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:10	47.38	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:15	47.19	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:20	48.17	20.98	47.6 NOX, 20.9 O2								
05/22/01	14:57:25	47.19	20.98	47.6 NOX, 20.9 O2								
		47.44	20.98	47.6 NOX, 20.9 O2 Average								
05/22/01	14:57:30	45.62	20.98	STANDBY								
05/22/01	14:57:35	51.30	20.98	STANDBY								
05/22/01	14:57:40	58.95	20.98	STANDBY								
05/22/01	14:57:45	63.26	20.98	STANDBY								
05/22/01	14:57:50	47.97	20.98	STANDBY								
05/22/01	14:57:55	24.46	20.98	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	14:58:00	10.74	20.98	STANDBY								
05/22/01	14:58:05	5.06	20.98	STANDBY								
05/22/01	14:58:10	2.90	20.54	STANDBY								
05/22/01	14:58:15	2.12	17.76	STANDBY								
05/22/01	14:58:20	1.72	15.22	STANDBY								
05/22/01	14:58:25	1.53	13.84	STANDBY								
05/22/01	14:58:30	1.33	13.09	STANDBY								
05/22/01	14:58:35	1.33	12.68	STANDBY								
05/22/01	14:58:40	1.33	12.43	STANDBY								
05/22/01	14:58:45	1.14	12.30	STANDBY								
05/22/01	14:58:50	1.14	12.21	STANDBY								
05/22/01	14:58:55	1.14	12.18	STANDBY								
05/22/01	14:59:00	1.14	12.15	STANDBY								
05/22/01	14:59:06	0.94	12.12	STANDBY								
05/22/01	14:59:10	0.94	12.08	STANDBY								
05/22/01	14:59:15	0.94	12.08	STANDBY								
		14.86	16.30	STANDBY Average								
05/22/01	14:59:20	0.94	12.05	11.9 % O2, 0 NOX								
05/22/01	14:59:25	0.94	12.05	11.9 % O2, 0 NOX								
05/22/01	14:59:30	0.94	12.05	11.9 % O2, 0 NOX								
05/22/01	14:59:35	0.94	12.05	11.9 % O2, 0 NOX								
05/22/01	14:59:40	0.94	12.05	11.9 % O2, 0 NOX								
05/22/01	14:59:45	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	14:59:50	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	14:59:55	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:00	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:05	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:10	0.75	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:15	0.75	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:20	0.75	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:25	0.75	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:30	1.33	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:35	0.94	12.02	11.9 % O2, 0 NOX								
05/22/01	15:00:40	0.94	11.99	11.9 % O2, 0 NOX								
05/22/01	15:00:45	0.94	11.99	11.9 % O2, 0 NOX								
		0.92	12.03	11.9 % O2, 0 NOX Average								
05/22/01	15:00:50	0.75	12.59	STANDBY								
05/22/01	15:00:55	17.79	13.31	STANDBY								
		9.27	12.95	STANDBY Average								
05/22/01	15:01:00	127.40	14.76	RUN 1		0.49	175.62	4.83	20.98	127.3	14.8	122.4
05/22/01	15:01:05	127.63	14.92	RUN 1		0.49	175.62	4.83	20.98	127.6	14.9	125.9
05/22/01	15:01:10	127.73	15.03	RUN 1		0.49	175.62	4.83	20.98	127.7	15.0	128.3
05/22/01	15:01:15	128.32	15.31	RUN 1		0.49	175.82	4.83	20.98	128.2	15.3	135.4
05/22/01	15:01:20	128.32	15.44	RUN 1		0.49	175.62	4.83	20.98	128.2	15.4	138.4
05/22/01	15:01:25	128.51	15.53	RUN 1		0.49	175.62	4.83	20.98	128.4	15.5	141.0
05/22/01	15:01:30	128.32	15.59	RUN 1		0.49	175.62	4.83	20.98	128.2	15.6	142.4
05/22/01	15:01:35	128.32	15.62	RUN 1		0.49	175.62	4.83	20.98	128.2	15.6	143.3
05/22/01	15:01:40	127.93	15.66	RUN 1		0.49	175.82	4.83	20.98	127.8	15.7	143.7
05/22/01	15:01:45	127.93	15.66	RUN 1		0.49	175.62	4.83	20.98	127.8	15.7	143.7
05/22/01	15:01:50	127.34	15.69	RUN 1		0.49	175.62	4.83	20.98	127.3	15.7	143.9
05/22/01	15:01:55	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:02:00	128.32	15.69	RUN 1		0.49	175.62	4.83	20.98	128.2	15.7	145.0
05/22/01	15:02:05	128.32	15.69	RUN 1		0.49	175.62	4.83	20.98	128.2	15.7	145.0
05/22/01	15:02:10	128.32	15.69	RUN 1		0.49	175.62	4.83	20.98	128.2	15.7	145.0
05/22/01	15:02:15	128.12	15.69	RUN 1		0.49	175.82	4.83	20.98	128.0	15.7	144.7
05/22/01	15:02:20	128.32	15.69	RUN 1		0.49	175.62	4.83	20.98	128.2	15.7	145.0
05/22/01	15:02:25	128.12	15.69	RUN 1		0.49	175.62	4.83	20.98	128.0	15.7	144.7
05/22/01	15:02:30	126.95	15.69	RUN 1		0.49	175.62	4.83	20.98	126.9	15.7	143.4
05/22/01	15:02:35	126.95	15.72	RUN 1		0.49	175.62	4.83	20.98	126.9	15.7	144.3
05/22/01	15:02:40	127.34	15.72	RUN 1		0.49	175.62	4.83	20.98	127.3	15.7	144.7
05/22/01	15:02:45	127.53	15.72	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.9
05/22/01	15:02:50	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:02:55	127.93	15.69	RUN 1		0.49	175.82	4.83	20.98	127.8	15.7	144.5
05/22/01	15:03:00	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:03:05	127.14	15.69	RUN 1		0.49	175.62	4.83	20.98	127.1	15.7	143.6
05/22/01	15:03:10	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:03:15	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:03:20	127.73	15.69	RUN 1		0.49	175.62	4.83	20.98	127.7	15.7	144.3
05/22/01	15:03:25	127.73	15.69	RUN 1		0.49	175.62	4.83	20.98	127.7	15.7	144.3
05/22/01	15:03:30	127.53	15.69	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	144.1
05/22/01	15:03:35	127.34	15.66	RUN 1		0.49	175.62	4.83	20.98	127.3	15.7	143.0
05/22/01	15:03:40	127.53	15.66	RUN 1		0.49	175.62	4.83	20.98	127.5	15.7	143.2
05/22/01	15:03:45	127.14	15.66	RUN 1		0.49	175.62	4.83	20.98	127.1	15.7	142.8
05/22/01	15:03:50	126.75	15.69	RUN 1		0.49	175.62	4.83	20.98	126.7	15.7	143.2
05/22/01	15:03:55	127.14	15.69	RUN 1		0.49	175.62	4.83	20.98	127.1	15.7	143.6
05/22/01	15:04:00	126.95	15.69	RUN 1		0.49	175.62	4.83	20.98	126.9	15.7	143.4
05/22/01	15:04:05	126.55	15.69	RUN 1		0.49	175.62	4.83	20.98	126.5	15.7	143.0
05/22/01	15:04:10	126.75	15.69	RUN 1		0.49	175.62	4.83	20.98	126.7	15.7	143.2
05/22/01	15:04:15	125.38	15.72	RUN 1		0.49	175.62	4.83	20.98	125.3	15.7	142.5
05/22/01	15:04:20	125.77	15.72	RUN 1		0.49	175.62	4.83	20.98	125.7	15.7	142.9
05/22/01	15:04:25	126.36	15.72	RUN 1		0.49	175.62	4.83	20.98	126.3	15.7	143.6
05/22/01	15:04:30	125.77	15.72	RUN 1		0.49	175.82	4.83	20.98	125.7	15.7	142.9
05/22/01	15:04:35	123.81	15.75	RUN 1		0.49	175.62	4.83	20.98	123.7	15.7	141.5
05/22/01	15:04:40	122.44	15.81	RUN 1		0.49	175.62	4.83	20.98	122.3	15.8	141.6
05/22/01	15:04:45	125.97	15.81	RUN 1		0.49	175.62	4.83	20.98	125.9	15.8	145.7
05/22/01	15:04:50	126.75	15.75	RUN 1		0.49	175.62	4.83	20.98	126.7	15.7	144.9







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	Nox 0 Response	Nox 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	Nox CORRECTED TO 15% O2
05/22/01	15:19:15	123.03	15.59	RUN 1		0.49	175.62	4.83	20.98	122.9	15.6	136.5
05/22/01	15:19:20	124.01	15.59	RUN 1		0.49	175.62	4.83	20.98	123.9	15.6	137.6
05/22/01	15:19:25	123.22	15.59	RUN 1		0.49	175.62	4.83	20.98	123.1	15.6	136.8
05/22/01	15:19:30	121.46	15.59	RUN 1		0.49	175.62	4.83	20.98	121.4	15.6	134.8
05/22/01	15:19:35	119.30	15.66	RUN 1		0.49	175.62	4.83	20.98	119.2	15.7	134.0
05/22/01	15:19:40	122.05	15.69	RUN 1		0.49	175.62	4.83	20.98	122.0	15.7	137.9
05/22/01	15:19:45	123.03	15.66	RUN 1		0.49	175.62	4.83	20.98	122.9	15.7	138.2
05/22/01	15:19:50	121.85	15.66	RUN 1		0.49	175.62	4.83	20.98	121.8	15.7	136.8
05/22/01	15:19:55	120.48	15.69	RUN 1		0.49	175.62	4.83	20.98	120.4	15.7	136.1
05/22/01	15:20:00	120.67	15.72	RUN 1		0.49	175.62	4.83	20.98	120.6	15.7	137.1
05/22/01	15:20:05	121.46	15.72	RUN 1		0.49	175.62	4.83	20.98	121.4	15.7	138.0
05/22/01	15:20:10	122.83	15.69	RUN 1		0.49	175.62	4.83	20.98	122.7	15.7	138.7
05/22/01	15:20:15	122.44	15.66	RUN 1		0.49	175.62	4.83	20.98	122.3	15.7	137.5
05/22/01	15:20:20	118.32	15.72	RUN 1		0.49	175.62	4.83	20.98	118.2	15.7	134.4
05/22/01	15:20:25	115.58	15.81	RUN 1		0.49	175.62	4.83	20.98	115.5	15.8	133.7
05/22/01	15:20:30	111.07	15.91	RUN 1		0.49	175.62	4.83	20.98	110.9	15.9	130.8
05/22/01	15:20:35	116.78	15.97	RUN 1		0.49	175.62	4.83	20.98	116.6	16.0	139.3
05/22/01	15:20:40	120.48	15.91	RUN 1		0.49	175.62	4.83	20.98	120.4	15.9	142.0
05/22/01	15:20:45	119.50	15.84	RUN 1		0.49	175.62	4.83	20.98	119.4	15.8	139.1
05/22/01	15:20:50	118.71	15.84	RUN 1		0.49	175.62	4.83	20.98	118.6	15.8	138.2
05/22/01	15:20:55	117.54	15.84	RUN 1		0.49	175.62	4.83	20.98	117.4	15.8	136.8
05/22/01	15:21:00	118.52	15.84	RUN 1		0.49	175.62	4.83	20.98	118.4	15.8	137.9
05/22/01	15:21:05	117.34	15.88	RUN 1		0.49	175.62	4.83	20.98	117.2	15.9	137.4
05/22/01	15:21:10	120.28	15.84	RUN 1		0.49	175.62	4.83	20.98	120.2	15.8	140.0
05/22/01	15:21:15	120.87	15.81	RUN 1		0.49	175.62	4.83	20.98	120.8	15.8	139.8
05/22/01	15:21:20	123.22	15.75	RUN 1		0.49	175.62	4.83	20.98	123.1	15.7	140.9
05/22/01	15:21:25	123.22	15.69	RUN 1		0.49	175.62	4.83	20.98	123.1	15.7	139.2
05/22/01	15:21:30	122.83	15.69	RUN 1		0.49	175.62	4.83	20.98	122.5	15.7	138.5
05/22/01	15:21:35	121.46	15.69	RUN 1		0.49	175.62	4.83	20.98	121.4	15.7	137.2
05/22/01	15:21:40	121.26	15.69	RUN 1		0.49	175.62	4.83	20.98	121.2	15.7	137.0
05/22/01	15:21:45	120.87	15.72	RUN 1		0.49	175.62	4.83	20.98	120.8	15.7	137.3
05/22/01	15:21:50	119.69	15.72	RUN 1		0.49	175.62	4.83	20.98	119.6	15.7	136.0
05/22/01	15:21:55	120.09	15.75	RUN 1		0.49	175.62	4.83	20.98	120.0	15.7	137.3
05/22/01	15:22:00	120.87	15.75	RUN 1		0.49	175.62	4.83	20.98	120.8	15.7	138.2
05/22/01	15:22:05	120.48	15.72	RUN 1		0.49	175.62	4.83	20.98	120.4	15.7	136.9
05/22/01	15:22:10	121.07	15.75	RUN 1		0.49	175.62	4.83	20.98	121.0	15.7	138.4
05/22/01	15:22:15	124.01	15.72	RUN 1		0.49	175.62	4.83	20.98	123.9	15.7	140.9
05/22/01	15:22:20	124.99	15.66	RUN 1		0.49	175.62	4.83	20.98	124.9	15.7	140.4
05/22/01	15:22:25	124.99	15.59	RUN 1		0.49	175.62	4.83	20.98	124.9	15.6	138.7
05/22/01	15:22:30	124.20	15.59	RUN 1		0.49	175.62	4.83	20.98	124.1	15.6	137.9
05/22/01	15:22:35	123.03	15.59	RUN 1		0.49	175.62	4.83	20.98	122.9	15.6	136.5
05/22/01	15:22:40	120.87	15.66	RUN 1		0.49	175.62	4.83	20.98	120.6	15.7	135.5
05/22/01	15:22:45	121.26	15.69	RUN 1		0.49	175.62	4.83	20.98	121.2	15.7	137.0
05/22/01	15:22:50	119.69	15.69	RUN 1		0.49	175.62	4.83	20.98	119.6	15.7	135.2
05/22/01	15:22:55	118.91	15.66	RUN 1		0.49	175.62	4.83	20.98	118.8	15.7	133.5
		124.03	15.68	RUN 1 Average						123.9	15.7	140.0
05/22/01	15:23:00	118.52	15.66	STANDBY								
05/22/01	15:23:05	91.87	15.59	STANDBY								
05/22/01	15:23:10	43.66	14.56	STANDBY								
05/22/01	15:23:15	18.97	12.18	STANDBY								
05/22/01	15:23:20	8.00	9.73	STANDBY								
05/22/01	15:23:25	3.68	7.88	STANDBY								
05/22/01	15:23:30	2.12	6.73	STANDBY								
05/22/01	15:23:35	1.33	6.00	STANDBY								
05/22/01	15:23:40	1.14	5.60	STANDBY								
05/22/01	15:23:45	0.94	5.32	STANDBY								
05/22/01	15:23:50	0.94	5.16	STANDBY								
05/22/01	15:23:55	0.94	5.10	STANDBY								
05/22/01	15:24:00	0.75	5.00	STANDBY								
		22.53	8.81	STANDBY Average								
05/22/01	15:24:05	0.75	4.97	4.97 % O2, 0 NOX								
05/22/01	15:24:10	0.75	4.94	4.97 % O2, 0 NOX								
05/22/01	15:24:15	0.75	4.91	4.97 % O2, 0 NOX								
05/22/01	15:24:20	0.75	4.91	4.97 % O2, 0 NOX								
05/22/01	15:24:25	0.75	4.88	4.97 % O2, 0 NOX								
05/22/01	15:24:30	0.75	4.88	4.97 % O2, 0 NOX								
05/22/01	15:24:35	0.75	4.88	4.97 % O2, 0 NOX								
05/22/01	15:24:40	0.75	4.88	4.97 % O2, 0 NOX								
05/22/01	15:24:45	0.75	4.85	4.97 % O2, 0 NOX								
05/22/01	15:24:50	0.55	4.85	4.97 % O2, 0 NOX								
05/22/01	15:24:55	0.55	4.85	4.97 % O2, 0 NOX								
05/22/01	15:25:00	0.55	4.85	4.97 % O2, 0 NOX								
05/22/01	15:25:05	0.55	4.85	4.97 % O2, 0 NOX								
		0.68	4.88	4.97 % O2, 0 NOX Average								
05/22/01	15:25:10	0.35	5.16	STANDBY								
05/22/01	15:25:15	0.55	9.33	STANDBY								
05/22/01	15:25:20	0.55	14.34	STANDBY								
05/22/01	15:25:25	0.35	17.22	STANDBY								
05/22/01	15:25:30	0.75	18.79	STANDBY								
05/22/01	15:25:35	5.25	19.60	STANDBY								
05/22/01	15:25:40	48.36	20.11	STANDBY								
05/22/01	15:25:45	101.86	20.39	STANDBY								
05/22/01	15:25:50	136.35	20.54	STANDBY								
05/22/01	15:25:55	154.58	20.87	STANDBY								
05/22/01	15:26:00	165.16	20.76	STANDBY								
05/22/01	15:26:05	169.27	20.80	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	O <sub>2</sub> %	COMMENTS	TEST RUN	NOx Response	NOx 175.7	O <sub>2</sub> 19.7 RESPONSE	O <sub>2</sub> 20.9	CORRECTED NOx, ppm	CORRECTED O <sub>2</sub> %	NOx CORRECTED TO 15% O <sub>2</sub>
05/22/01	15:26:10	171.23	20.83	STANDBY								
05/22/01	15:26:15	172.21	20.86	STANDBY								
05/22/01	15:26:20	173.00	20.89	STANDBY								
05/22/01	15:26:25	173.19	20.92	STANDBY								
05/22/01	15:26:30	173.58	20.92	STANDBY								
05/22/01	15:26:35	173.78	20.95	STANDBY								
05/22/01	15:26:40	173.98	20.92	STANDBY								
05/22/01	15:26:45	174.17	20.95	STANDBY								
05/22/01	15:26:50	174.56	20.95	STANDBY								
05/22/01	15:26:55	174.56	20.95	STANDBY								
05/22/01	15:27:00	174.56	20.95	STANDBY								
05/22/01	15:27:05	174.56	20.98	STANDBY								
05/22/01	15:27:10	174.96	20.98	STANDBY								
05/22/01	15:27:15	175.15	20.98	STANDBY								
		123.73	19.26	STANDBY Average								
05/22/01	15:27:20	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:25	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:30	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:35	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:40	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:45	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:50	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	15:27:55	178.92	20.98	175.7 NOX, 20.9 O2								
		175.47	20.98	175.7 NOX, 20.9 O2 Average								
05/22/01	15:28:00	169.86	21.01	STANDBY								
05/22/01	15:28:05	134.96	21.05	STANDBY								
05/22/01	15:28:10	126.36	20.95	STANDBY								
05/22/01	15:28:15	125.77	19.51	STANDBY								
05/22/01	15:28:20	124.40	17.88	STANDBY								
05/22/01	15:28:25	122.83	16.97	STANDBY								
05/22/01	15:28:30	124.20	16.47	STANDBY								
05/22/01	15:28:35	123.22	16.19	STANDBY								
05/22/01	15:28:40	122.83	16.06	STANDBY								
05/22/01	15:28:45	123.22	15.97	STANDBY								
05/22/01	15:28:50	123.81	15.94	STANDBY								
05/22/01	15:28:55	123.61	15.88	STANDBY								
		128.77	17.82	STANDBY Average								
05/22/01	15:29:00	121.26	15.84	RUN 2		0.61	174.99	4.85	20.96	121.6	15.8	141.9
05/22/01	15:29:05	122.24	15.88	RUN 2		0.61	174.99	4.85	20.96	122.6	15.9	143.9
05/22/01	15:29:10	123.61	15.84	RUN 2		0.61	174.99	4.85	20.96	123.9	15.8	144.7
05/22/01	15:29:15	120.48	15.84	RUN 2		0.61	174.99	4.85	20.96	120.8	15.8	141.0
05/22/01	15:29:20	119.89	15.91	RUN 2		0.61	174.99	4.85	20.96	120.2	15.9	142.0
05/22/01	15:29:25	121.46	15.91	RUN 2		0.61	174.99	4.85	20.96	121.6	15.9	143.9
05/22/01	15:29:30	119.89	15.91	RUN 2		0.61	174.99	4.85	20.96	120.2	15.9	142.0
05/22/01	15:29:35	120.48	15.91	RUN 2		0.61	174.99	4.85	20.96	120.8	15.9	142.7
05/22/01	15:29:40	118.71	15.91	RUN 2		0.61	174.99	4.85	20.96	119.0	15.9	140.6
05/22/01	15:29:45	119.50	15.94	RUN 2		0.61	174.99	4.85	20.96	119.8	15.9	142.5
05/22/01	15:29:50	120.28	15.91	RUN 2		0.61	174.99	4.85	20.96	120.6	15.9	142.5
05/22/01	15:29:55	122.05	15.88	RUN 2		0.61	174.99	4.85	20.96	122.4	15.9	143.7
05/22/01	15:30:00	121.85	15.84	RUN 2		0.61	174.99	4.85	20.96	122.2	15.8	142.6
05/22/01	15:30:05	118.91	15.88	RUN 2		0.61	174.99	4.85	20.96	119.2	15.9	140.0
05/22/01	15:30:10	119.89	15.91	RUN 2		0.61	174.99	4.85	20.96	120.2	15.9	142.0
05/22/01	15:30:15	118.71	15.91	RUN 2		0.61	174.99	4.85	20.96	119.0	15.9	140.6
05/22/01	15:30:20	120.48	15.91	RUN 2		0.61	174.99	4.85	20.96	120.8	15.9	142.7
05/22/01	15:30:25	121.26	15.88	RUN 2		0.61	174.99	4.85	20.96	121.6	15.9	142.8
05/22/01	15:30:30	118.52	15.88	RUN 2		0.61	174.99	4.85	20.96	118.8	15.9	139.5
05/22/01	15:30:35	116.36	15.97	RUN 2		0.61	174.99	4.85	20.96	116.6	16.0	139.6
05/22/01	15:30:40	121.26	15.94	RUN 2		0.61	174.99	4.85	20.96	121.6	15.9	144.6
05/22/01	15:30:45	121.85	15.88	RUN 2		0.61	174.99	4.85	20.96	122.2	15.9	143.5
05/22/01	15:30:50	121.46	15.84	RUN 2		0.61	174.99	4.85	20.96	121.8	15.8	142.1
05/22/01	15:30:55	121.65	15.84	RUN 2		0.61	174.99	4.85	20.96	122.0	15.8	142.4
05/22/01	15:31:00	122.05	15.81	RUN 2		0.61	174.99	4.85	20.96	122.4	15.8	142.0
05/22/01	15:31:05	120.48	15.81	RUN 2		0.61	174.99	4.85	20.96	120.8	15.8	140.1
05/22/01	15:31:10	120.87	15.84	RUN 2		0.61	174.99	4.85	20.96	121.2	15.8	141.5
05/22/01	15:31:15	121.46	15.81	RUN 2		0.61	174.99	4.85	20.96	121.8	15.8	141.3
05/22/01	15:31:20	120.28	15.84	RUN 2		0.61	174.99	4.85	20.96	120.6	15.8	140.8
05/22/01	15:31:25	123.42	15.81	RUN 2		0.61	174.99	4.85	20.96	123.7	15.8	143.6
05/22/01	15:31:30	123.81	15.75	RUN 2		0.61	174.99	4.85	20.96	124.1	15.8	142.3
05/22/01	15:31:35	121.85	15.75	RUN 2		0.61	174.99	4.85	20.96	122.2	15.8	140.0
05/22/01	15:31:40	115.78	15.84	RUN 2		0.61	174.99	4.85	20.96	116.0	15.8	135.5
05/22/01	15:31:45	118.52	15.94	RUN 2		0.61	174.99	4.85	20.96	118.8	15.9	141.3
05/22/01	15:31:50	120.09	15.91	RUN 2		0.61	174.99	4.85	20.96	120.4	15.9	142.3
05/22/01	15:31:55	119.89	15.91	RUN 2		0.61	174.99	4.85	20.96	120.2	15.9	142.0
05/22/01	15:32:00	120.09	15.91	RUN 2		0.61	174.99	4.85	20.96	120.4	15.9	142.3
05/22/01	15:32:05	120.87	15.88	RUN 2		0.61	174.99	4.85	20.96	121.2	15.9	142.3
05/22/01	15:32:10	120.87	15.84	RUN 2		0.61	174.99	4.85	20.96	121.2	15.8	141.5
05/22/01	15:32:15	122.24	15.84	RUN 2		0.61	174.99	4.85	20.96	122.6	15.8	143.1
05/22/01	15:32:20	121.46	15.81	RUN 2		0.61	174.99	4.85	20.96	121.8	15.8	141.3
05/22/01	15:32:25	122.05	15.81	RUN 2		0.61	174.99	4.85	20.96	122.4	15.8	142.0
05/22/01	15:32:30	118.71	15.81	RUN 2		0.61	174.99	4.85	20.96	119.0	15.8	138.1
05/22/01	15:32:35	117.15	15.91	RUN 2		0.61	174.99	4.85	20.96	117.4	15.9	138.8
05/22/01	15:32:40	117.54	15.94	RUN 2		0.61	174.99	4.85	20.96	117.8	15.9	140.1
05/22/01	15:32:45	121.46	15.91	RUN 2		0.61	174.99	4.85	20.96	121.8	15.9	143.9
05/22/01	15:32:50	120.28	15.88	RUN 2		0.61	174.99	4.85	20.96	120.6	15.9	141.6
05/22/01	15:32:55	121.26	15.84	RUN 2		0.61	174.99	4.85	20.96	121.6	15.8	141.9
05/22/01	15:33:00	119.89	15.84	RUN 2		0.61	174.99	4.85	20.96	120.2	15.8	140.3





JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITH FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	15:47:25	124.99	15.53	RUN 2		0.61	174.99	4.85	20.96	125.3	15.5	137.8
05/22/01	15:47:30	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:47:35	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:47:40	124.99	15.53	RUN 2		0.61	174.99	4.85	20.96	125.3	15.5	137.8
05/22/01	15:47:45	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:47:50	125.57	15.53	RUN 2		0.61	174.99	4.85	20.96	125.9	15.5	138.5
05/22/01	15:47:55	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:00	124.99	15.53	RUN 2		0.61	174.99	4.85	20.96	125.3	15.5	137.8
05/22/01	15:48:05	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:10	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:48:15	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:48:20	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:48:25	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:48:30	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:48:35	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:40	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:45	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:50	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:48:55	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:00	125.57	15.53	RUN 2		0.61	174.99	4.85	20.96	125.9	15.5	138.5
05/22/01	15:49:05	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:49:10	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:15	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:20	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:25	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:30	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:49:35	125.18	15.53	RUN 2		0.61	174.99	4.85	20.96	125.5	15.5	138.0
05/22/01	15:49:40	125.57	15.53	RUN 2		0.61	174.99	4.85	20.96	125.9	15.5	138.5
05/22/01	15:49:45	125.38	15.53	RUN 2		0.61	174.99	4.85	20.96	125.7	15.5	138.3
05/22/01	15:49:50	125.57	15.53	RUN 2		0.61	174.99	4.85	20.96	125.9	15.5	138.5
05/22/01	15:49:55	125.77	15.53	RUN 2		0.61	174.99	4.85	20.96	126.1	15.5	138.7
		121.41	15.76	RUN 2 Average						121.7	15.8	139.8
05/22/01	15:50:00	125.57	15.53	STANDBY								
05/22/01	15:50:05	125.77	15.50	STANDBY								
05/22/01	15:50:10	125.77	15.53	STANDBY								
05/22/01	15:50:15	125.77	15.53	STANDBY								
05/22/01	15:50:20	124.59	15.47	STANDBY								
05/22/01	15:50:25	123.61	15.47	STANDBY								
05/22/01	15:50:30	122.63	15.44	STANDBY								
05/22/01	15:50:35	121.46	15.44	STANDBY								
05/22/01	15:50:40	81.87	16.35	STANDBY								
05/22/01	15:50:45	33.47	18.16	STANDBY								
05/22/01	15:50:50	16.81	19.35	STANDBY								
05/22/01	15:50:55	13.87	19.98	STANDBY								
05/22/01	15:51:00	10.94	20.33	STANDBY								
05/22/01	15:51:05	10.54	20.54	STANDBY								
05/22/01	15:51:10	10.54	20.64	STANDBY								
05/22/01	15:51:15	10.74	20.70	STANDBY								
05/22/01	15:51:20	9.96	20.76	STANDBY								
05/22/01	15:51:25	6.43	20.80	STANDBY								
05/22/01	15:51:30	3.68	20.83	STANDBY								
05/22/01	15:51:35	2.31	20.83	STANDBY								
05/22/01	15:51:40	1.72	20.86	STANDBY								
05/22/01	15:51:45	41.51	20.86	STANDBY								
05/22/01	15:51:50	115.78	20.89	STANDBY								
05/22/01	15:51:55	130.28	20.92	STANDBY								
05/22/01	15:52:00	141.25	20.92	STANDBY								
05/22/01	15:52:05	152.42	20.92	STANDBY								
05/22/01	15:52:10	160.26	20.92	STANDBY								
05/22/01	15:52:15	166.33	20.92	STANDBY								
05/22/01	15:52:20	169.86	20.92	STANDBY								
05/22/01	15:52:25	172.21	20.92	STANDBY								
05/22/01	15:52:30	173.00	20.92	STANDBY								
05/22/01	15:52:35	173.39	20.92	STANDBY								
05/22/01	15:52:40	173.78	20.92	STANDBY								
		90.25	19.24	STANDBY Average								
05/22/01	15:52:45	174.17	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:52:50	174.17	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:52:55	174.37	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:53:00	174.37	20.95	175.7 NOX, 20.9 O2								
05/22/01	15:53:05	174.56	20.95	175.7 NOX, 20.9 O2								
05/22/01	15:53:10	174.37	20.95	175.7 NOX, 20.9 O2								
05/22/01	15:53:15	174.56	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:53:20	174.76	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:53:25	174.56	20.92	175.7 NOX, 20.9 O2								
05/22/01	15:53:30	174.76	20.95	175.7 NOX, 20.9 O2								
05/22/01	15:53:35	174.96	20.95	175.7 NOX, 20.9 O2								
		174.51	20.93	175.7 NOX, 20.9 O2 Average								
05/22/01	15:53:45	166.73	20.95	STANDBY								
05/22/01	15:53:50	91.87	20.95	STANDBY								
05/22/01	15:53:55	32.30	20.95	STANDBY								
05/22/01	15:54:00	10.15	20.95	STANDBY								
05/22/01	15:54:05	4.08	19.13	STANDBY								
05/22/01	15:54:10	2.51	13.68	STANDBY								
05/22/01	15:54:15	1.92	9.76	STANDBY								
05/22/01	15:54:20	1.53	7.70	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.8	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	15:54:25	1.33	6.57	STANDBY								
05/22/01	15:54:30	1.33	5.94	STANDBY								
05/22/01	15:54:35	1.14	5.57	STANDBY								
05/22/01	15:54:40	1.14	5.35	STANDBY								
05/22/01	15:54:45	1.14	5.19	STANDBY								
05/22/01	15:54:50	1.14	5.10	STANDBY								
05/22/01	15:54:55	0.94	5.03	STANDBY								
05/22/01	15:55:00	0.94	5.00	STANDBY								
05/22/01	15:55:05	0.94	4.94	STANDBY								
05/22/01	15:55:10	0.94	4.94	STANDBY								
05/22/01	15:55:15	0.94	4.91	STANDBY								
05/22/01	15:55:20	0.94	4.91	STANDBY								
05/22/01	15:55:25	0.94	4.88	STANDBY								
05/22/01	15:55:30	0.94	4.88	STANDBY								
05/22/01	15:55:35	0.94	4.88	STANDBY								
05/22/01	15:55:40	0.75	4.88	STANDBY								
05/22/01	15:55:45	0.75	4.88	STANDBY								
05/22/01	15:55:50	0.75	4.85	STANDBY								
05/22/01	15:55:55	0.75	4.85	STANDBY								
05/22/01	15:56:00	0.75	4.85	STANDBY								
05/22/01	15:56:05	0.75	4.85	STANDBY								
05/22/01	15:56:10	0.75	4.85	STANDBY								
05/22/01	15:56:15	0.75	4.85	STANDBY								
05/22/01	15:56:20	0.75	4.85	STANDBY								
05/22/01	15:56:25	0.75	4.85	STANDBY								
05/22/01	15:56:30	0.75	4.85	STANDBY								
05/22/01	15:56:35	0.75	4.85	STANDBY								
05/22/01	15:56:40	0.75	4.85	STANDBY								
05/22/01	15:56:45	0.75	4.85	STANDBY								
		9.11	7.57	STANDBY Average								
05/22/01	15:56:50	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:56:55	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:00	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:05	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:10	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:15	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:20	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:25	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:30	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:35	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:40	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:45	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:50	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:57:55	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:00	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:05	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:10	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:15	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:20	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:25	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:30	0.75	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:35	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:40	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:45	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:50	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:58:55	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:00	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:05	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:10	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:15	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:20	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:25	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:30	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:35	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:40	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:45	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:50	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	15:59:55	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:00	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:05	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:10	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:15	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:20	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:25	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:30	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:35	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:40	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:45	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:50	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:00:55	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:00	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:05	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:10	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:15	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:20	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	16:01:25	0.55	4.81	4.97 % O2, 0 NOX								

**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx ppm	CORRECTED O2 %	NOx CORRECTED TO 15% O2
05/22/01	18:01:30	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:01:35	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:01:40	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	18:01:45	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:01:50	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	18:01:55	0.55	4.81	4.97 % O2, 0 NOX								
05/22/01	18:02:00	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:02:05	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:02:10	0.35	4.81	4.97 % O2, 0 NOX								
05/22/01	18:02:15	0.55	4.81	4.97 % O2, 0 NOX								
		0.54	4.81	4.97 % O2, 0 NOX Average								
05/22/01	18:02:20	16.23	5.06	STANDBY								
05/22/01	18:02:25	96.53	7.63	STANDBY								
05/22/01	18:02:30	121.85	10.99	STANDBY								
05/22/01	18:02:35	123.81	13.06	STANDBY								
05/22/01	18:02:40	125.97	14.18	STANDBY								
05/22/01	18:02:45	126.36	14.75	STANDBY								
05/22/01	18:02:50	125.77	15.06	STANDBY								
05/22/01	18:02:55	124.79	15.28	STANDBY								
05/22/01	18:03:00	124.79	15.41	STANDBY								
05/22/01	18:03:05	124.40	15.50	STANDBY								
05/22/01	18:03:10	121.85	15.59	STANDBY								
05/22/01	18:03:15	123.22	15.66	STANDBY								
05/22/01	18:03:20	124.40	15.69	STANDBY								
05/22/01	18:03:25	124.59	15.69	STANDBY								
05/22/01	18:03:30	125.97	15.66	STANDBY								
05/22/01	18:03:35	125.57	15.66	STANDBY								
05/22/01	18:03:40	125.77	15.66	STANDBY								
05/22/01	18:03:45	125.87	15.66	STANDBY								
05/22/01	18:03:50	125.38	15.66	STANDBY								
05/22/01	18:03:55	125.77	15.66	STANDBY								
		118.06	14.17	STANDBY Average								
05/22/01	18:04:00	125.16	15.66	RUN 3		0.48	174.92	4.83	20.94	125.6	15.7	141.8
05/22/01	18:04:05	124.79	15.66	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	141.4
05/22/01	18:04:10	123.42	15.72	RUN 3		0.48	174.92	4.83	20.94	123.8	15.7	141.5
05/22/01	18:04:15	123.61	15.72	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	141.7
05/22/01	18:04:20	121.85	15.75	RUN 3		0.48	174.92	4.83	20.94	122.2	15.8	140.5
05/22/01	18:04:25	121.26	15.81	RUN 3		0.48	174.92	4.83	20.94	121.7	15.8	141.6
05/22/01	18:04:30	124.59	15.78	RUN 3		0.48	174.92	4.83	20.94	125.0	15.8	144.8
05/22/01	18:04:35	125.38	15.72	RUN 3		0.48	174.92	4.83	20.94	125.6	15.7	143.7
05/22/01	18:04:40	125.77	15.69	RUN 3		0.48	174.92	4.83	20.94	126.2	15.7	143.3
05/22/01	18:04:45	124.20	15.69	RUN 3		0.48	174.92	4.83	20.94	124.6	15.7	141.5
05/22/01	18:04:50	123.81	15.72	RUN 3		0.48	174.92	4.83	20.94	124.2	15.7	141.9
05/22/01	18:04:55	124.40	15.72	RUN 3		0.48	174.92	4.83	20.94	124.8	15.7	142.6
05/22/01	18:05:00	123.61	15.72	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	141.7
05/22/01	18:05:05	124.79	15.72	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	143.1
05/22/01	18:05:10	125.38	15.72	RUN 3		0.48	174.92	4.83	20.94	125.8	15.7	143.7
05/22/01	18:05:15	124.20	15.69	RUN 3		0.48	174.92	4.83	20.94	124.6	15.7	141.5
05/22/01	18:05:20	123.42	15.72	RUN 3		0.48	174.92	4.83	20.94	123.8	15.7	141.5
05/22/01	18:05:25	124.79	15.72	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	143.1
05/22/01	18:05:30	125.57	15.69	RUN 3		0.48	174.92	4.83	20.94	126.0	15.7	143.1
05/22/01	18:05:35	124.01	15.69	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	141.3
05/22/01	18:05:40	124.99	15.72	RUN 3		0.48	174.92	4.83	20.94	125.4	15.7	142.3
05/22/01	18:05:45	124.99	15.69	RUN 3		0.48	174.92	4.83	20.94	125.4	15.7	142.4
05/22/01	18:05:50	125.18	15.69	RUN 3		0.48	174.92	4.83	20.94	125.6	15.7	142.7
05/22/01	18:05:55	124.01	15.69	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	141.3
05/22/01	18:06:00	124.79	15.72	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	143.1
05/22/01	18:06:05	124.99	15.69	RUN 3		0.48	174.92	4.83	20.94	125.4	15.7	142.4
05/22/01	18:06:10	124.01	15.69	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	141.3
05/22/01	18:06:15	124.99	15.69	RUN 3		0.48	174.92	4.83	20.94	125.4	15.7	142.4
05/22/01	18:06:20	123.61	15.69	RUN 3		0.48	174.92	4.83	20.94	124.2	15.7	141.1
05/22/01	18:06:25	121.85	15.72	RUN 3		0.48	174.92	4.83	20.94	122.2	15.7	139.7
05/22/01	18:06:30	122.44	15.78	RUN 3		0.48	174.92	4.83	20.94	122.8	15.8	142.1
05/22/01	18:06:35	124.79	15.72	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	143.1
05/22/01	18:06:40	122.44	15.72	RUN 3		0.48	174.92	4.83	20.94	122.8	15.7	140.4
05/22/01	18:06:45	119.89	15.78	RUN 3		0.48	174.92	4.83	20.94	120.3	15.8	139.1
05/22/01	18:06:50	119.89	15.84	RUN 3		0.48	174.92	4.83	20.94	120.3	15.9	140.8
05/22/01	18:06:55	123.22	15.81	RUN 3		0.48	174.92	4.83	20.94	123.6	15.6	142.8
05/22/01	18:07:00	124.01	15.76	RUN 3		0.48	174.92	4.83	20.94	124.4	15.8	143.9
05/22/01	18:07:05	124.01	15.72	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	142.2
05/22/01	18:07:10	124.79	15.72	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	143.1
05/22/01	18:07:15	124.01	15.69	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	141.3
05/22/01	18:07:20	122.24	15.72	RUN 3		0.48	174.92	4.83	20.94	122.6	15.7	140.1
05/22/01	18:07:25	124.40	15.72	RUN 3		0.48	174.92	4.83	20.94	124.8	15.7	142.6
05/22/01	18:07:30	123.22	15.72	RUN 3		0.48	174.92	4.83	20.94	123.6	15.7	141.3
05/22/01	18:07:35	124.79	15.69	RUN 3		0.48	174.92	4.83	20.94	125.2	15.7	142.2
05/22/01	18:07:40	125.38	15.66	RUN 3		0.48	174.92	4.83	20.94	125.8	15.7	142.1
05/22/01	18:07:45	123.81	15.66	RUN 3		0.48	174.92	4.83	20.94	124.2	15.7	140.3
05/22/01	18:07:50	121.46	15.72	RUN 3		0.48	174.92	4.83	20.94	121.9	15.7	139.2
05/22/01	18:07:55	123.61	15.72	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	141.7
05/22/01	18:08:00	124.01	15.72	RUN 3		0.48	174.92	4.83	20.94	124.4	15.7	142.2
05/22/01	18:08:05	123.61	15.69	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	140.9
05/22/01	18:08:10	123.61	15.69	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	140.9
05/22/01	18:08:15	121.85	15.72	RUN 3		0.48	174.92	4.83	20.94	122.2	15.7	139.7
05/22/01	18:08:20	123.42	15.72	RUN 3		0.48	174.92	4.83	20.94	123.8	15.7	141.5
05/22/01	18:08:25	123.61	15.69	RUN 3		0.48	174.92	4.83	20.94	124.0	15.7	140.9







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	16:22:55	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:00	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:05	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:10	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:15	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:23:20	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:25	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:30	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:35	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:40	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:23:45	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:50	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:23:55	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:00	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:05	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:10	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
05/22/01	16:24:15	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
05/22/01	16:24:20	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:25	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:30	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:35	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
05/22/01	16:24:40	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:45	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:24:50	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:24:55	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:25:00	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
05/22/01	16:25:05	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:10	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
05/22/01	16:25:15	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:20	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:25	125.57	15.56	RUN 3		0.48	174.92	4.83	20.94	126.0	15.6	139.8
05/22/01	16:25:30	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:35	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:40	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:45	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:50	125.77	15.56	RUN 3		0.48	174.92	4.83	20.94	126.2	15.6	140.0
05/22/01	16:25:55	125.97	15.56	RUN 3		0.48	174.92	4.83	20.94	126.4	15.6	140.2
		124.71	15.61	RUN 3 Average						125.1	15.6	140.1
05/22/01	16:26:00	125.57	15.56	STANDBY								
05/22/01	16:26:05	125.77	15.56	STANDBY								
05/22/01	16:26:10	125.77	15.56	STANDBY								
05/22/01	16:26:15	125.97	15.56	STANDBY								
05/22/01	16:26:20	125.77	15.56	STANDBY								
05/22/01	16:26:25	125.97	15.56	STANDBY								
05/22/01	16:26:30	125.57	15.56	STANDBY								
05/22/01	16:26:35	125.57	15.56	STANDBY								
05/22/01	16:26:40	125.77	15.56	STANDBY								
05/22/01	16:26:45	125.77	15.56	STANDBY								
05/22/01	16:26:50	125.57	15.56	STANDBY								
05/22/01	16:26:55	125.38	15.56	STANDBY								
05/22/01	16:27:00	125.38	15.56	STANDBY								
05/22/01	16:27:05	124.40	15.53	STANDBY								
05/22/01	16:27:10	123.42	15.47	STANDBY								
05/22/01	16:27:15	123.22	15.47	STANDBY								
05/22/01	16:27:20	122.05	15.44	STANDBY								
05/22/01	16:27:25	99.71	15.12	STANDBY								
05/22/01	16:27:30	51.30	13.43	STANDBY								
05/22/01	16:27:35	23.48	10.92	STANDBY								
05/22/01	16:27:40	9.76	6.76	STANDBY								
05/22/01	16:27:45	4.08	7.26	STANDBY								
05/22/01	16:27:50	1.92	6.32	STANDBY								
05/22/01	16:27:55	1.33	5.75	STANDBY								
05/22/01	16:28:00	0.94	5.41	STANDBY								
05/22/01	16:28:05	0.75	5.22	STANDBY								
05/22/01	16:28:10	0.75	5.13	STANDBY								
05/22/01	16:28:15	0.55	5.03	STANDBY								
05/22/01	16:28:20	0.55	5.00	STANDBY								
05/22/01	16:28:25	0.55	4.94	STANDBY								
05/22/01	16:28:30	0.55	4.94	STANDBY								
05/22/01	16:28:35	0.55	4.91	STANDBY								
05/22/01	16:28:40	0.35	4.91	STANDBY								
		70.42	11.43	STANDBY Average								
05/22/01	16:28:45	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	16:28:50	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	16:28:55	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	16:29:00	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	16:29:05	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	16:29:10	0.55	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:15	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:20	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:25	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:30	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:35	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:40	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:45	0.35	4.85	4.97 % O2, 0 NOX								
05/22/01	16:29:50	0.35	4.85	4.97 % O2, 0 NOX								







**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	16:51:10	116.95	15.56	RUN 4		0.40	175.56	4.87	20.96	116.9	15.6	129.2
05/22/01	16:51:15	116.56	15.56	RUN 4		0.40	175.56	4.87	20.96	116.5	15.6	128.8
05/22/01	16:51:20	116.17	15.56	RUN 4		0.40	175.56	4.87	20.96	116.1	15.6	128.3
05/22/01	16:51:25	116.17	15.53	RUN 4		0.40	175.56	4.87	20.96	116.1	15.5	127.6
05/22/01	16:51:30	115.78	15.56	RUN 4		0.40	175.56	4.87	20.96	115.7	15.6	127.9
05/22/01	16:51:35	115.58	15.56	RUN 4		0.40	175.56	4.87	20.96	115.5	15.6	127.7
05/22/01	16:51:40	115.19	15.56	RUN 4		0.40	175.56	4.87	20.96	115.1	15.6	127.2
05/22/01	16:51:45	114.99	15.53	RUN 4		0.40	175.56	4.87	20.96	114.9	15.5	126.3
05/22/01	16:51:50	114.80	15.53	RUN 4		0.40	175.56	4.87	20.96	114.7	15.5	126.0
05/22/01	16:51:55	114.60	15.53	RUN 4		0.40	175.56	4.87	20.96	114.6	15.5	125.8
05/22/01	16:52:00	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:05	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:10	114.80	15.53	RUN 4		0.40	175.56	4.87	20.96	114.6	15.5	125.8
05/22/01	16:52:15	114.80	15.53	RUN 4		0.40	175.56	4.87	20.96	114.7	15.5	126.0
05/22/01	16:52:20	114.80	15.53	RUN 4		0.40	175.56	4.87	20.96	114.7	15.5	126.0
05/22/01	16:52:25	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:30	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:35	114.60	15.53	RUN 4		0.40	175.56	4.87	20.96	114.6	15.5	125.8
05/22/01	16:52:40	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:45	114.21	15.53	RUN 4		0.40	175.56	4.87	20.96	114.2	15.5	125.4
05/22/01	16:52:50	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:52:55	113.82	15.53	RUN 4		0.40	175.56	4.87	20.96	113.8	15.5	125.0
05/22/01	16:53:00	113.82	15.53	RUN 4		0.40	175.56	4.87	20.96	113.8	15.5	125.0
05/22/01	16:53:05	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:10	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:15	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:20	113.82	15.53	RUN 4		0.40	175.56	4.87	20.96	113.8	15.5	125.0
05/22/01	16:53:25	113.82	15.53	RUN 4		0.40	175.56	4.87	20.96	113.8	15.5	125.0
05/22/01	16:53:30	114.21	15.53	RUN 4		0.40	175.56	4.87	20.96	114.2	15.5	125.4
05/22/01	16:53:35	114.40	15.53	RUN 4		0.40	175.56	4.87	20.96	114.4	15.5	125.6
05/22/01	16:53:40	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:45	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:50	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
05/22/01	16:53:55	114.01	15.53	RUN 4		0.40	175.56	4.87	20.96	114.0	15.5	125.2
		123.61	15.60	RUN 4 Average						123.6	15.6	137.4
05/22/01	16:54:00	113.82	15.53	STANDBY								
05/22/01	16:54:10	114.21	15.53	STANDBY								
05/22/01	16:54:15	114.01	15.53	STANDBY								
05/22/01	16:54:20	114.01	15.53	STANDBY								
05/22/01	16:54:25	113.82	15.53	STANDBY								
05/22/01	16:54:30	113.82	15.53	STANDBY								
05/22/01	16:54:35	114.01	15.53	STANDBY								
05/22/01	16:54:40	114.21	15.53	STANDBY								
05/22/01	16:54:45	114.21	15.53	STANDBY								
05/22/01	16:54:50	113.03	15.53	STANDBY								
05/22/01	16:54:55	112.44	15.47	STANDBY								
05/22/01	16:55:00	113.23	15.47	STANDBY								
05/22/01	16:55:05	125.18	14.78	STANDBY								
05/22/01	16:55:10	138.31	11.93	STANDBY								
05/22/01	16:55:15	153.40	8.26	STANDBY								
05/22/01	16:55:20	164.37	5.32	STANDBY								
05/22/01	16:55:25	169.27	3.28	STANDBY								
05/22/01	16:55:30	172.21	2.02	STANDBY								
05/22/01	16:55:35	173.19	5.13	STANDBY								
05/22/01	16:55:40	173.78	11.83	STANDBY								
05/22/01	16:55:45	173.98	16.06	STANDBY								
05/22/01	16:55:50	174.17	18.23	STANDBY								
05/22/01	16:55:55	174.37	19.35	STANDBY								
05/22/01	16:56:00	174.37	19.98	STANDBY								
05/22/01	16:56:05	174.56	20.33	STANDBY								
05/22/01	16:56:10	174.76	20.51	STANDBY								
05/22/01	16:56:15	174.76	20.67	STANDBY								
05/22/01	16:56:20	174.76	20.73	STANDBY								
05/22/01	16:56:25	174.96	20.80	STANDBY								
05/22/01	16:56:30	174.96	20.83	STANDBY								
05/22/01	16:56:35	174.76	20.86	STANDBY								
05/22/01	16:56:40	175.15	20.89	STANDBY								
05/22/01	16:56:45	175.15	20.92	STANDBY								
05/22/01	16:56:50	175.35	20.92	STANDBY								
05/22/01	16:56:55	175.35	20.92	STANDBY								
05/22/01	16:57:00	175.35	20.92	STANDBY								
05/22/01	16:57:05	175.54	20.95	STANDBY								
05/22/01	16:57:10	175.54	20.95	STANDBY								
05/22/01	16:57:15	175.35	20.95	STANDBY								
05/22/01	16:57:20	175.54	20.95	STANDBY								
		153.33	16.39	STANDBY Average								
05/22/01	16:57:25	175.35	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:30	175.74	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:35	175.35	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:40	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:45	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:50	175.74	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:57:55	175.74	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:58:00	175.74	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:58:05	175.74	20.95	175.7 NOX, 20.9 O2								
05/22/01	16:58:10	175.94	20.98	175.7 NOX, 20.9 O2								









JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGER

DATE	Time	NOx Ppm	OXYGEN %	COMMENTS	TEST RUN	NOx Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	17:19:25	114.21	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.7
05/22/01	17:19:30	114.01	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.5
05/22/01	17:19:35	114.21	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.7
05/22/01	17:19:40	114.21	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.7
05/22/01	17:19:45	114.21	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.7
05/22/01	17:19:50	114.01	15.53	RUN 5		0.29	175.53	4.87	20.94	114	15.5	125.5
05/22/01	17:19:55	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:00	114.01	15.53	RUN 5		0.29	175.53	4.87	20.94	114.0	15.5	125.5
05/22/01	17:20:05	114.21	15.53	RUN 5		0.29	175.53	4.87	20.94	114.2	15.5	125.7
05/22/01	17:20:10	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:20	114.01	15.53	RUN 5		0.29	175.53	4.87	20.94	114.0	15.5	125.5
05/22/01	17:20:25	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:30	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:35	113.62	15.53	RUN 5		0.29	175.53	4.87	20.94	113.6	15.5	125.1
05/22/01	17:20:40	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:45	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:20:50	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:20:55	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:21:00	113.03	15.53	RUN 5		0.29	175.53	4.87	20.94	113.0	15.5	124.4
05/22/01	17:21:05	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:21:10	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:21:15	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:21:20	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:21:25	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:21:30	113.03	15.53	RUN 5		0.29	175.53	4.87	20.94	113.0	15.5	124.4
05/22/01	17:21:35	113.03	15.53	RUN 5		0.29	175.53	4.87	20.94	113.0	15.5	124.4
05/22/01	17:21:40	112.84	15.56	RUN 5		0.29	175.53	4.87	20.94	112.8	15.6	125.0
05/22/01	17:21:45	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:21:50	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:21:55	113.42	15.53	RUN 5		0.29	175.53	4.87	20.94	113.4	15.5	124.9
05/22/01	17:22:00	113.03	15.53	RUN 5		0.29	175.53	4.87	20.94	113.0	15.5	124.4
05/22/01	17:22:05	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:22:10	113.23	15.53	RUN 5		0.29	175.53	4.87	20.94	113.2	15.5	124.7
05/22/01	17:22:15	114.01	15.53	RUN 5		0.29	175.53	4.87	20.94	114.0	15.5	125.5
05/22/01	17:22:20	114.01	15.56	RUN 5		0.29	175.53	4.87	20.94	114.0	15.6	126.3
05/22/01	17:22:25	113.82	15.53	RUN 5		0.29	175.53	4.87	20.94	113.8	15.5	125.3
05/22/01	17:22:30	114.01	15.56	RUN 5		0.29	175.53	4.87	20.94	114.0	15.6	126.3
05/22/01	17:22:35	114.21	15.56	RUN 5		0.29	175.53	4.87	20.94	114.2	15.6	126.5
05/22/01	17:22:40	114.01	15.56	RUN 5		0.29	175.53	4.87	20.94	114.0	15.6	126.3
05/22/01	17:22:45	114.40	15.56	RUN 5		0.29	175.53	4.87	20.94	114.4	15.6	126.7
05/22/01	17:22:50	114.40	15.56	RUN 5		0.29	175.53	4.87	20.94	114.4	15.6	126.7
05/22/01	17:22:55	114.40	15.56	RUN 5		0.29	175.53	4.87	20.94	114.4	15.6	126.7
		116.97	15.57	RUN 5 Average						117.0	15.6	129.9
05/22/01	17:23:00	114.21	15.56	STANDBY								
05/22/01	17:23:05	114.01	15.56	STANDBY								
05/22/01	17:23:10	113.82	15.53	STANDBY								
05/22/01	17:23:15	113.62	15.56	STANDBY								
05/22/01	17:23:20	113.62	15.56	STANDBY								
05/22/01	17:23:25	113.23	15.56	STANDBY								
05/22/01	17:23:30	113.23	15.56	STANDBY								
05/22/01	17:23:35	112.64	15.56	STANDBY								
05/22/01	17:23:40	112.44	15.56	STANDBY								
05/22/01	17:23:45	112.64	15.56	STANDBY								
05/22/01	17:23:50	112.64	15.56	STANDBY								
05/22/01	17:23:55	112.64	15.53	STANDBY								
05/22/01	17:24:00	112.44	15.53	STANDBY								
05/22/01	17:24:05	112.44	15.53	STANDBY								
05/22/01	17:24:10	112.44	15.53	STANDBY								
05/22/01	17:24:15	112.44	15.53	STANDBY								
05/22/01	17:24:20	112.44	15.53	STANDBY								
05/22/01	17:24:25	111.86	15.56	STANDBY								
05/22/01	17:24:30	111.07	15.53	STANDBY								
05/22/01	17:24:35	110.88	15.47	STANDBY								
05/22/01	17:24:40	104.02	15.41	STANDBY								
05/22/01	17:24:45	66.78	14.43	STANDBY								
05/22/01	17:24:50	34.25	11.99	STANDBY								
05/22/01	17:24:55	13.68	9.42	STANDBY								
05/22/01	17:25:00	4.66	7.60	STANDBY								
05/22/01	17:25:05	1.92	6.47	STANDBY								
05/22/01	17:25:10	0.94	5.85	STANDBY								
05/22/01	17:25:15	0.75	5.47	STANDBY								
05/22/01	17:25:20	0.35	5.25	STANDBY								
05/22/01	17:25:25	0.35	5.13	STANDBY								
05/22/01	17:25:30	0.35	5.06	STANDBY								
05/22/01	17:25:35	0.35	5.00	STANDBY								
05/22/01	17:25:40	0.35	4.97	STANDBY								
05/22/01	17:25:45	0.35	4.94	STANDBY								
05/22/01	17:25:50	0.35	4.94	STANDBY								
05/22/01	17:25:55	0.35	4.91	STANDBY								
05/22/01	17:26:00	0.35	4.91	STANDBY								
		67.16	11.69	STANDBY Average								
05/22/01	17:26:05	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:10	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:15	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:20	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:25	0.16	4.88	4.97 % O2, 0 NOX								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	Nox 0 Response	Nox 175.7	O2 4.87 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	Nox CORRECTED TO 15% O2
05/22/01	17:26:30	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:35	0.18	4.88	4.97 % O2, 0 NOX								
05/22/01	17:26:40	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:26:45	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:26:50	0.18	4.85	4.97 % O2, 0 NOX								
05/22/01	17:26:55	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:00	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:05	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:10	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:15	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:20	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:25	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	17:27:30	0.16	4.85	4.97 % O2, 0 NOX								
				4.97 % O2, 0 NOX Average								
05/22/01	17:27:35	0.16	5.10	STANDBY								
05/22/01	17:27:40	7.21	9.20	STANDBY								
05/22/01	17:27:45	79.33	14.37	STANDBY								
05/22/01	17:27:50	142.03	17.32	STANDBY								
05/22/01	17:27:55	164.37	18.88	STANDBY								
05/22/01	17:28:00	170.45	19.70	STANDBY								
05/22/01	17:28:05	172.80	20.14	STANDBY								
05/22/01	17:28:10	173.58	20.42	STANDBY								
05/22/01	17:28:15	173.98	20.58	STANDBY								
05/22/01	17:28:20	174.17	20.67	STANDBY								
05/22/01	17:28:25	174.37	20.73	STANDBY								
05/22/01	17:28:30	174.37	20.80	STANDBY								
				STANDBY Average								
05/22/01	17:28:35	174.96	20.83	175.7 NOX, 20.9 O2								
05/22/01	17:28:40	174.96	20.86	175.7 NOX, 20.9 O2								
05/22/01	17:28:45	174.76	20.86	175.7 NOX, 20.9 O2								
05/22/01	17:28:50	174.96	20.89	175.7 NOX, 20.9 O2								
05/22/01	17:28:55	175.15	20.92	175.7 NOX, 20.9 O2								
05/22/01	17:29:00	175.35	20.92	175.7 NOX, 20.9 O2								
05/22/01	17:29:05	175.15	20.92	175.7 NOX, 20.9 O2								
05/22/01	17:29:10	175.35	20.92	175.7 NOX, 20.9 O2								
05/22/01	17:29:15	175.54	20.92	175.7 NOX, 20.9 O2								
05/22/01	17:29:20	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	17:29:25	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	17:29:30	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	17:29:35	175.54	20.95	175.7 NOX, 20.9 O2								
05/22/01	17:29:40	175.54	20.95	175.7 NOX, 20.9 O2								
				175.7 NOX, 20.9 O2 Average								
05/22/01	17:29:45	176.92	20.95	STANDBY								
05/22/01	17:29:50	174.56	20.98	STANDBY								
05/22/01	17:29:55	133.22	20.98	STANDBY								
05/22/01	17:30:00	115.38	20.80	STANDBY								
05/22/01	17:30:05	114.21	19.07	STANDBY								
05/22/01	17:30:10	114.40	17.47	STANDBY								
05/22/01	17:30:15	114.21	16.66	STANDBY								
05/22/01	17:30:20	114.40	16.22	STANDBY								
05/22/01	17:30:25	114.60	16.00	STANDBY								
05/22/01	17:30:30	114.40	15.88	STANDBY								
05/22/01	17:30:35	114.60	15.78	STANDBY								
05/22/01	17:30:40	114.21	15.72	STANDBY								
05/22/01	17:30:45	114.21	15.69	STANDBY								
05/22/01	17:30:50	114.01	15.69	STANDBY								
05/22/01	17:30:55	114.21	15.69	STANDBY								
				STANDBY Average								
05/22/01	17:31:00	114.40	15.66	RUN 6		0.34	175.29	4.87	20.95	114.6	15.7	129.0
05/22/01	17:31:05	114.21	15.66	RUN 6		0.34	175.29	4.87	20.95	114.4	15.7	128.7
05/22/01	17:31:10	114.21	15.66	RUN 6		0.34	175.29	4.87	20.95	114.4	15.7	128.7
05/22/01	17:31:15	114.01	15.66	RUN 6		0.34	175.29	4.87	20.95	114.2	15.7	128.5
05/22/01	17:31:20	114.01	15.62	RUN 6		0.34	175.29	4.87	20.95	114.2	15.6	127.7
05/22/01	17:31:25	113.82	15.62	RUN 6		0.34	175.29	4.87	20.95	114.0	15.6	127.5
05/22/01	17:31:30	113.23	15.66	RUN 6		0.34	175.29	4.87	20.95	113.4	15.7	127.6
05/22/01	17:31:35	113.23	15.66	RUN 6		0.34	175.29	4.87	20.95	113.4	15.7	127.6
05/22/01	17:31:40	113.42	15.66	RUN 6		0.34	175.29	4.87	20.95	113.6	15.7	127.8
05/22/01	17:31:45	113.62	15.66	RUN 6		0.34	175.29	4.87	20.95	113.8	15.7	128.1
05/22/01	17:31:50	113.62	15.62	RUN 6		0.34	175.29	4.87	20.95	113.8	15.6	127.3
05/22/01	17:31:55	113.23	15.62	RUN 6		0.34	175.29	4.87	20.95	113.4	15.6	126.9
05/22/01	17:32:00	113.23	15.62	RUN 6		0.34	175.29	4.87	20.95	113.4	15.6	126.9
05/22/01	17:32:05	113.03	15.62	RUN 6		0.34	175.29	4.87	20.95	113.2	15.6	126.6
05/22/01	17:32:10	113.23	15.62	RUN 6		0.34	175.29	4.87	20.95	113.4	15.6	126.9
05/22/01	17:32:15	113.42	15.59	RUN 6		0.34	175.29	4.87	20.95	113.6	15.6	126.3
05/22/01	17:32:20	112.64	15.62	RUN 6		0.34	175.29	4.87	20.95	112.8	15.6	126.2
05/22/01	17:32:25	112.84	15.59	RUN 6		0.34	175.29	4.87	20.95	113.0	15.6	125.7
05/22/01	17:32:30	112.64	15.62	RUN 6		0.34	175.29	4.87	20.95	112.8	15.6	126.2
05/22/01	17:32:35	112.84	15.62	RUN 6		0.34	175.29	4.87	20.95	113.0	15.6	126.4
05/22/01	17:32:40	112.44	15.62	RUN 6		0.34	175.29	4.87	20.95	112.6	15.6	126.0
05/22/01	17:32:45	112.25	15.59	RUN 6		0.34	175.29	4.87	20.95	112.4	15.6	125.0
05/22/01	17:32:50	112.44	15.62	RUN 6		0.34	175.29	4.87	20.95	112.6	15.6	126.0
05/22/01	17:32:55	112.25	15.62	RUN 6		0.34	175.29	4.87	20.95	112.4	15.6	125.8
05/22/01	17:33:00	112.64	15.59	RUN 6		0.34	175.29	4.87	20.95	112.8	15.6	125.5
05/22/01	17:33:05	112.44	15.59	RUN 6		0.34	175.29	4.87	20.95	112.6	15.6	125.2
05/22/01	17:33:10	112.25	15.59	RUN 6		0.34	175.29	4.87	20.95	112.4	15.6	125.0
05/22/01	17:33:15	112.25	15.59	RUN 6		0.34	175.29	4.87	20.95	112.4	15.6	125.0





**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx O Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.9	CORRECTED NOx ppm	CORRECTED O2 %	NOx CORRECTED TO 15% O2
05/22/01	17:47:45	113.82	15.53	RUN 6		0.34	175.29	4.87	20.95	114.0	15.5	125.3
05/22/01	17:47:50	113.62	15.53	RUN 6		0.34	175.29	4.87	20.95	113.8	15.5	125.1
05/22/01	17:47:55	113.62	15.53	RUN 6		0.34	175.29	4.87	20.95	113.8	15.5	125.1
05/22/01	17:48:00	113.42	15.53	RUN 6		0.34	175.29	4.87	20.95	113.6	15.5	124.9
05/22/01	17:48:05	113.23	15.53	RUN 6		0.34	175.29	4.87	20.95	113.4	15.5	124.7
05/22/01	17:48:10	112.64	15.56	RUN 6		0.34	175.29	4.87	20.95	112.8	15.6	124.7
05/22/01	17:48:15	112.64	15.53	RUN 6		0.34	175.29	4.87	20.95	112.8	15.5	124.0
05/22/01	17:48:20	112.84	15.56	RUN 6		0.34	175.29	4.87	20.95	113.0	15.8	125.0
05/22/01	17:48:25	113.03	15.53	RUN 6		0.34	175.29	4.87	20.95	113.2	15.5	124.4
05/22/01	17:48:30	112.64	15.53	RUN 6		0.34	175.29	4.87	20.95	112.8	15.5	124.0
05/22/01	17:48:35	112.44	15.56	RUN 6		0.34	175.29	4.87	20.95	112.6	15.6	124.5
05/22/01	17:48:40	112.25	15.56	RUN 6		0.34	175.29	4.87	20.95	112.4	15.6	124.3
05/22/01	17:48:45	112.44	15.53	RUN 6		0.34	175.29	4.87	20.95	112.6	15.5	123.8
05/22/01	17:48:50	112.44	15.53	RUN 6		0.34	175.29	4.87	20.95	112.6	15.5	123.8
05/22/01	17:48:55	112.25	15.53	RUN 6		0.34	175.29	4.87	20.95	112.4	15.5	123.6
05/22/01	17:49:00	112.25	15.53	RUN 6		0.34	175.29	4.87	20.95	112.4	15.5	123.6
05/22/01	17:49:05	112.05	15.53	RUN 6		0.34	175.29	4.87	20.95	112.2	15.5	123.4
05/22/01	17:49:10	112.05	15.53	RUN 6		0.34	175.29	4.87	20.95	112.2	15.5	123.4
05/22/01	17:49:15	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:49:20	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:49:25	112.25	15.53	RUN 6		0.34	175.29	4.87	20.95	112.4	15.5	123.6
05/22/01	17:49:30	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:49:35	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:49:40	111.46	15.53	RUN 6		0.34	175.29	4.87	20.95	111.6	15.5	122.7
05/22/01	17:49:45	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:49:50	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:49:55	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:00	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:50:05	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.6	15.5	122.9
05/22/01	17:50:10	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:15	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:20	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:50:25	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:30	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:35	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:40	111.46	15.53	RUN 6		0.34	175.29	4.87	20.95	111.6	15.5	122.7
05/22/01	17:50:45	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:50	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:50:55	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:51:00	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:51:05	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:51:10	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:51:15	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	111.8	15.5	122.9
05/22/01	17:51:20	111.66	15.56	RUN 6		0.34	175.29	4.87	20.95	112.0	15.6	123.9
05/22/01	17:51:25	111.66	15.56	RUN 6		0.34	175.29	4.87	20.95	112.0	15.6	123.9
05/22/01	17:51:30	112.05	15.53	RUN 6		0.34	175.29	4.87	20.95	112.2	15.5	123.4
05/22/01	17:51:35	112.05	15.53	RUN 6		0.34	175.29	4.87	20.95	112.2	15.5	123.4
05/22/01	17:51:40	111.66	15.53	RUN 6		0.34	175.29	4.87	20.95	112.0	15.5	123.1
05/22/01	17:51:45	112.05	15.53	RUN 6		0.34	175.29	4.87	20.95	112.2	15.5	123.4
05/22/01	17:51:50	111.66	15.56	RUN 6		0.34	175.29	4.87	20.95	111.8	15.6	123.7
05/22/01	17:51:55	112.05	15.56	RUN 6		0.34	175.29	4.87	20.95	112.2	15.6	124.1
		112.85	15.57	RUN 6 Average						113.0	15.6	125.2
05/22/01	17:52:00	111.66	15.53	STANDBY								
05/22/01	17:52:05	111.66	15.53	STANDBY								
05/22/01	17:52:10	112.05	15.53	STANDBY								
05/22/01	17:52:15	111.66	15.53	STANDBY								
05/22/01	17:52:20	111.66	15.56	STANDBY								
05/22/01	17:52:25	111.66	15.56	STANDBY								
05/22/01	17:52:30	111.66	15.56	STANDBY								
05/22/01	17:52:35	112.05	15.53	STANDBY								
05/22/01	17:52:40	112.05	15.53	STANDBY								
05/22/01	17:52:45	112.05	15.53	STANDBY								
05/22/01	17:52:50	110.68	15.53	STANDBY								
05/22/01	17:52:55	110.68	15.47	STANDBY								
05/22/01	17:53:00	111.66	15.47	STANDBY								
05/22/01	17:53:05	124.40	15.34	STANDBY								
05/22/01	17:53:10	142.62	16.94	STANDBY								
05/22/01	17:53:15	158.50	18.76	STANDBY								
05/22/01	17:53:20	167.12	19.76	STANDBY								
05/22/01	17:53:25	170.84	20.29	STANDBY								
05/22/01	17:53:30	172.60	20.58	STANDBY								
05/22/01	17:53:35	173.58	20.73	STANDBY								
05/22/01	17:53:40	173.39	20.83	STANDBY								
05/22/01	17:53:45	173.78	20.89	STANDBY								
05/22/01	17:53:50	173.98	20.92	STANDBY								
05/22/01	17:53:55	173.78	20.92	STANDBY								
05/22/01	17:54:00	174.17	20.95	STANDBY								
05/22/01	17:54:05	173.98	20.95	STANDBY								
05/22/01	17:54:10	174.17	20.95	STANDBY								
05/22/01	17:54:15	174.37	20.98	STANDBY								
05/22/01	17:54:20	174.17	20.98	STANDBY								
05/22/01	17:54:25	174.56	20.98	STANDBY								
05/22/01	17:54:30	174.56	20.98	STANDBY								
05/22/01	17:54:35	174.96	20.98	STANDBY								
05/22/01	17:54:40	174.76	20.98	STANDBY								
05/22/01	17:54:45	174.76	20.96	STANDBY								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	17:54:50	174.76	20.98	STANDBY								
05/22/01	17:54:55	174.96	20.98	STANDBY								
		148.63	18.60	STANDBY Average								
05/22/01	17:55:00	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:05	174.76	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:10	174.76	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:15	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:20	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:25	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:30	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:35	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:40	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:45	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:50	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:55:55	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:00	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:05	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:10	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:15	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:20	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:25	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:30	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:35	175.74	20.98	175.7 NOX, 20.9 O2								
05/22/01	17:56:40	175.74	20.98	175.7 NOX, 20.9 O2								
		175.29	20.98	175.7 NOX, 20.9 O2 Average								
05/22/01	17:56:45	134.59	20.98	STANDBY								
05/22/01	17:56:50	40.33	20.98	STANDBY								
05/22/01	17:56:55	10.35	20.98	STANDBY								
05/22/01	17:57:00	48.17	20.98	STANDBY								
05/22/01	17:57:05	109.50	20.70	STANDBY								
05/22/01	17:57:10	60.51	16.03	STANDBY								
05/22/01	17:57:15	16.62	10.70	STANDBY								
05/22/01	17:57:20	5.06	8.01	STANDBY								
05/22/01	17:57:25	2.31	6.69	STANDBY								
05/22/01	17:57:30	1.53	6.00	STANDBY								
05/22/01	17:57:35	1.14	5.63	STANDBY								
05/22/01	17:57:40	0.94	5.38	STANDBY								
05/22/01	17:57:45	0.94	5.22	STANDBY								
05/22/01	17:57:50	0.94	6.13	STANDBY								
05/22/01	17:57:55	0.75	5.06	STANDBY								
05/22/01	17:58:00	0.75	5.03	STANDBY								
05/22/01	17:58:05	0.75	5.00	STANDBY								
05/22/01	17:58:10	0.75	4.94	STANDBY								
05/22/01	17:58:15	0.35	4.94	STANDBY								
05/22/01	17:58:20	0.55	4.94	STANDBY								
05/22/01	17:58:25	0.35	4.91	STANDBY								
		20.82	9.92	STANDBY Average								
05/22/01	17:58:30	0.55	4.91	4.97 % O2, 0 NOX								
05/22/01	17:58:35	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	17:58:40	0.55	4.91	4.97 % O2, 0 NOX								
05/22/01	17:58:45	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	17:58:50	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	17:58:55	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	17:59:00	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	17:59:05	0.55	4.88	4.97 % O2, 0 NOX								
05/22/01	17:59:10	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	17:59:15	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	17:59:20	0.35	4.88	4.97 % O2, 0 NOX								
		0.48	4.88	4.97 % O2, 0 NOX Average								
05/22/01	17:59:25	32.30	5.60	STANDBY								
05/22/01	17:59:30	96.18	8.79	STANDBY								
05/22/01	17:59:35	111.86	11.77	STANDBY								
05/22/01	17:59:40	114.21	13.43	STANDBY								
05/22/01	17:59:45	114.80	14.34	STANDBY								
05/22/01	17:59:50	114.99	14.84	STANDBY								
05/22/01	17:59:55	114.99	15.09	STANDBY								
		99.90	11.98	STANDBY Average								
05/22/01	18:00:00	114.99	15.28	RUN 7		0.44	175.24	4.89	20.99	115.1	15.3	120.4
05/22/01	18:00:05	115.38	15.37	RUN 7		0.44	175.24	4.89	20.99	115.5	15.3	122.8
05/22/01	18:00:10	115.38	15.44	RUN 7		0.44	175.24	4.89	20.99	115.5	15.4	124.2
05/22/01	18:00:15	115.38	15.47	RUN 7		0.44	175.24	4.89	20.99	115.5	15.4	124.9
05/22/01	18:00:20	115.38	15.50	RUN 7		0.44	175.24	4.89	20.99	115.5	15.5	125.6
05/22/01	18:00:25	115.19	15.53	RUN 7		0.44	175.24	4.89	20.99	115.3	15.5	126.1
05/22/01	18:00:30	115.19	15.56	RUN 7		0.44	175.24	4.89	20.99	115.3	15.5	126.8
05/22/01	18:00:35	115.19	15.56	RUN 7		0.44	175.24	4.89	20.99	115.3	15.5	126.8
05/22/01	18:00:40	114.99	15.56	RUN 7		0.44	175.24	4.89	20.99	115.1	15.5	126.6
05/22/01	18:00:45	114.99	15.59	RUN 7		0.44	175.24	4.89	20.99	115.1	15.6	127.3
05/22/01	18:00:50	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6
05/22/01	18:00:55	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6
05/22/01	18:01:00	115.38	15.59	RUN 7		0.44	175.24	4.89	20.99	115.5	15.6	127.8
05/22/01	18:01:05	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6
05/22/01	18:01:10	114.99	15.59	RUN 7		0.44	175.24	4.89	20.99	115.1	15.6	127.3
05/22/01	18:01:15	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6
05/22/01	18:01:20	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6
05/22/01	18:01:25	114.99	15.59	RUN 7		0.44	175.24	4.89	20.99	115.1	15.6	127.3
05/22/01	18:01:30	115.19	15.59	RUN 7		0.44	175.24	4.89	20.99	115.3	15.6	127.6









JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	O2, %	NOx CORRECTED TO 15% O2
05/22/01	18:23:00	174.17	20.98	STANDBY								
05/22/01	18:23:05	174.37	20.98	STANDBY								
05/22/01	18:23:10	174.56	20.98	STANDBY								
05/22/01	18:23:15	174.56	20.98	STANDBY								
05/22/01	18:23:20	174.56	20.98	STANDBY								
05/22/01	18:23:25	174.56	20.98	STANDBY								
05/22/01	18:23:30	174.78	20.98	STANDBY								
05/22/01	18:23:35	174.78	20.98	STANDBY								
05/22/01	18:23:40	174.96	20.98	STANDBY								
05/22/01	18:23:45	174.76	20.98	STANDBY								
05/22/01	18:23:50	174.76	20.98	STANDBY								
		139.20	18.42	STANDBY Average								
05/22/01	18:23:55	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:00	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:05	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:10	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:15	175.15	21.01	175.7 NOX, 20.9 O2								
05/22/01	18:24:20	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:25	175.54	20.98	175.7 NOX, 20.9 O2								
05/22/01	18:24:30	175.35	21.01	175.7 NOX, 20.9 O2								
		175.18	20.99	175.7 NOX, 20.9 O2 Average								
05/22/01	18:24:35	131.06	21.01	STANDBY								
05/22/01	18:24:40	45.03	20.39	STANDBY								
05/22/01	18:24:45	10.94	15.44	STANDBY								
05/22/01	18:24:50	3.68	10.70	STANDBY								
05/22/01	18:24:55	2.12	8.14	STANDBY								
05/22/01	18:25:00	1.53	8.82	STANDBY								
05/22/01	18:25:05	1.14	8.07	STANDBY								
05/22/01	18:25:10	0.94	5.66	STANDBY								
05/22/01	18:25:15	0.75	5.41	STANDBY								
05/22/01	18:25:20	0.75	5.25	STANDBY								
05/22/01	18:25:25	0.75	5.16	STANDBY								
05/22/01	18:25:30	0.55	5.06	STANDBY								
05/22/01	18:25:35	0.55	5.03	STANDBY								
05/22/01	18:25:40	0.55	5.00	STANDBY								
05/22/01	18:25:45	0.55	4.97	STANDBY								
05/22/01	18:25:50	0.55	4.94	STANDBY								
05/22/01	18:25:55	0.55	4.94	STANDBY								
		11.88	8.23	STANDBY Average								
05/22/01	18:26:00	0.55	4.91	4.97 % O2, 0 NOX								
05/22/01	18:26:05	0.55	4.91	4.97 % O2, 0 NOX								
05/22/01	18:26:10	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:26:15	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:26:20	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	18:26:25	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	18:26:30	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	18:26:35	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	18:26:40	0.35	4.88	4.97 % O2, 0 NOX								
05/22/01	18:26:45	0.35	4.88	4.97 % O2, 0 NOX								
		0.39	4.89	4.97 % O2, 0 NOX Average								
05/22/01	18:26:50	16.62	5.10	STANDBY								
05/22/01	18:26:55	84.23	7.35	STANDBY								
05/22/01	18:27:00	109.50	10.58	STANDBY								
05/22/01	18:27:05	114.01	12.77	STANDBY								
05/22/01	18:27:10	114.60	14.00	STANDBY								
05/22/01	18:27:15	115.19	14.62	STANDBY								
05/22/01	18:27:20	114.01	15.00	STANDBY								
05/22/01	18:27:25	114.40	15.22	STANDBY								
05/22/01	18:27:30	115.19	15.34	STANDBY								
05/22/01	18:27:35	115.19	15.44	STANDBY								
05/22/01	18:27:40	114.99	15.47	STANDBY								
05/22/01	18:27:45	114.80	15.50	STANDBY								
05/22/01	18:27:50	115.38	15.53	STANDBY								
05/22/01	18:27:55	115.58	15.56	STANDBY								
		105.26	13.39	STANDBY Average								
05/22/01	18:28:00	115.78	15.56	RUN 8		0.40	174.91	4.91	20.99	116.2	15.5	127.6
05/22/01	18:28:05	115.58	15.56	RUN 8		0.40	174.91	4.91	20.99	116.0	15.5	127.4
05/22/01	18:28:10	115.58	15.59	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.1
05/22/01	18:28:15	115.58	15.59	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.1
05/22/01	18:28:20	115.58	15.59	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.1
05/22/01	18:28:25	115.19	15.59	RUN 8		0.40	174.91	4.91	20.99	115.6	15.6	127.7
05/22/01	18:28:30	114.99	15.59	RUN 8		0.40	174.91	4.91	20.99	115.4	15.6	127.4
05/22/01	18:28:35	115.19	15.62	RUN 8		0.40	174.91	4.91	20.99	115.6	15.6	128.4
05/22/01	18:28:40	115.38	15.62	RUN 8		0.40	174.91	4.91	20.99	115.8	15.6	128.6
05/22/01	18:28:45	115.78	15.59	RUN 8		0.40	174.91	4.91	20.99	116.2	15.6	128.3
05/22/01	18:28:50	116.17	15.59	RUN 8		0.40	174.91	4.91	20.99	116.6	15.6	128.7
05/22/01	18:28:55	115.58	15.59	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.1
05/22/01	18:29:00	115.58	15.62	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.8
05/22/01	18:29:05	114.99	15.62	RUN 8		0.40	174.91	4.91	20.99	115.4	15.6	128.2
05/22/01	18:29:10	115.19	15.62	RUN 8		0.40	174.91	4.91	20.99	115.6	15.6	128.4
05/22/01	18:29:15	115.58	15.62	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.8
05/22/01	18:29:20	115.58	15.62	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.8
05/22/01	18:29:25	115.78	15.62	RUN 8		0.40	174.91	4.91	20.99	116.2	15.6	129.0
05/22/01	18:29:30	115.97	15.62	RUN 8		0.40	174.91	4.91	20.99	116.4	15.6	129.3
05/22/01	18:29:35	115.58	15.62	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.8
05/22/01	18:29:40	115.58	15.59	RUN 8		0.40	174.91	4.91	20.99	116.0	15.6	128.1







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	18:51:10	173.00	20.73	STANDBY								
05/22/01	18:51:15	173.19	20.83	STANDBY								
05/22/01	18:51:20	173.39	20.89	STANDBY								
05/22/01	18:51:25	173.78	20.92	STANDBY								
05/22/01	18:51:30	173.78	20.92	STANDBY								
05/22/01	18:51:35	173.98	20.95	STANDBY								
05/22/01	18:51:40	174.17	20.95	STANDBY								
05/22/01	18:51:45	173.98	20.98	STANDBY								
05/22/01	18:51:50	173.98	20.98	STANDBY								
05/22/01	18:51:55	174.17	20.98	STANDBY								
05/22/01	18:52:00	173.98	20.98	STANDBY								
05/22/01	18:52:05	174.17	20.98	STANDBY								
05/22/01	18:52:10	174.37	20.98	STANDBY								
05/22/01	18:52:15	173.98	20.98	STANDBY								
		140.65	17.84	STANDBY Average								
05/22/01	18:52:20	174.37	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:25	174.56	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:30	174.37	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:35	174.37	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:40	174.56	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:45	174.56	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:50	174.37	20.98	175.7 NOX, 0 O2								
05/22/01	18:52:55	174.78	20.98	175.7 NOX, 0 O2								
05/22/01	18:53:00	174.78	20.98	175.7 NOX, 0 O2								
05/22/01	18:53:05	174.96	20.98	175.7 NOX, 0 O2								
05/22/01	18:53:10	174.96	20.98	175.7 NOX, 0 O2								
05/22/01	18:53:15	174.96	20.98	175.7 NOX, 0 O2								
		174.83	20.98	175.7 NOX, 0 O2 Average								
05/22/01	18:53:20	141.45	20.98	STANDBY								
05/22/01	18:53:25	66.01	20.98	STANDBY								
05/22/01	18:53:30	15.64	20.76	STANDBY								
05/22/01	18:53:35	4.86	18.75	STANDBY								
05/22/01	18:53:40	2.31	11.61	STANDBY								
05/22/01	18:53:45	1.53	8.87	STANDBY								
05/22/01	18:53:50	1.14	7.10	STANDBY								
05/22/01	18:53:55	1.14	6.26	STANDBY								
05/22/01	18:54:00	0.94	5.75	STANDBY								
05/22/01	18:54:05	0.75	5.47	STANDBY								
05/22/01	18:54:10	0.75	5.28	STANDBY								
05/22/01	18:54:15	0.55	5.16	STANDBY								
05/22/01	18:54:20	0.35	5.10	STANDBY								
05/22/01	18:54:25	0.55	5.03	STANDBY								
05/22/01	18:54:30	0.55	5.00	STANDBY								
05/22/01	18:54:35	0.55	4.97	STANDBY								
		14.32	9.68	STANDBY Average								
05/22/01	18:54:40	0.55	4.94	4.97 % O2, 0 NOX								
05/22/01	18:54:45	0.55	4.94	4.97 % O2, 0 NOX								
05/22/01	18:54:50	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:54:55	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:55:00	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:55:05	0.35	4.91	4.97 % O2, 0 NOX								
05/22/01	18:55:10	0.35	4.91	4.97 % O2, 0 NOX								
		0.41	4.92	4.97 % O2, 0 NOX Average								
05/22/01	18:55:15	21.52	5.19	STANDBY								
05/22/01	18:55:20	92.46	7.76	STANDBY								
05/22/01	18:55:25	112.64	10.99	STANDBY								
05/22/01	18:55:30	115.78	12.99	STANDBY								
05/22/01	18:55:35	116.36	14.12	STANDBY								
05/22/01	18:55:40	116.56	14.68	STANDBY								
05/22/01	18:55:45	116.36	15.00	STANDBY								
05/22/01	18:55:50	116.76	15.22	STANDBY								
05/22/01	18:55:55	116.76	15.31	STANDBY								
		102.80	12.36	STANDBY Average								
05/22/01	18:56:00	116.76	15.41	RUN 9		0.29	174.93	4.90	20.99	117.2	15.4	125.1
05/22/01	18:56:05	116.76	15.44	RUN 9		0.29	174.93	4.90	20.99	117.2	15.4	125.8
05/22/01	18:56:10	116.56	15.47	RUN 9		0.29	174.93	4.90	20.99	117.0	15.4	126.3
05/22/01	18:56:15	116.36	15.53	RUN 9		0.29	174.93	4.90	20.99	116.8	15.5	127.5
05/22/01	18:56:20	116.76	15.53	RUN 9		0.29	174.93	4.90	20.99	117.2	15.5	127.9
05/22/01	18:56:25	116.95	15.53	RUN 9		0.29	174.93	4.90	20.99	117.4	15.5	128.1
05/22/01	18:56:30	116.56	15.56	RUN 9		0.29	174.93	4.90	20.99	117.0	15.5	128.5
05/22/01	18:56:35	116.56	15.56	RUN 9		0.29	174.93	4.90	20.99	117.0	15.5	128.5
05/22/01	18:56:40	116.56	15.56	RUN 9		0.29	174.93	4.90	20.99	117.0	15.5	128.5
05/22/01	18:56:45	116.56	15.56	RUN 9		0.29	174.93	4.90	20.99	117.0	15.5	128.5
05/22/01	18:56:50	116.56	15.56	RUN 9		0.29	174.93	4.90	20.99	117.0	15.5	128.5
05/22/01	18:56:55	116.36	15.59	RUN 9		0.29	174.93	4.90	20.99	116.8	15.6	129.0
05/22/01	18:57:00	116.36	15.59	RUN 9		0.29	174.93	4.90	20.99	116.8	15.6	129.0
05/22/01	18:57:05	116.36	15.59	RUN 9		0.29	174.93	4.90	20.99	116.8	15.6	129.0
05/22/01	18:57:10	116.56	15.59	RUN 9		0.29	174.93	4.90	20.99	117.0	15.6	129.2
05/22/01	18:57:15	116.17	15.59	RUN 9		0.29	174.93	4.90	20.99	116.6	15.6	128.8
05/22/01	18:57:20	116.17	15.59	RUN 9		0.29	174.93	4.90	20.99	116.6	15.6	128.8
05/22/01	18:57:25	116.17	15.59	RUN 9		0.29	174.93	4.90	20.99	116.6	15.6	128.8
05/22/01	18:57:30	116.17	15.59	RUN 9		0.29	174.93	4.90	20.99	116.6	15.6	128.8
05/22/01	18:57:35	116.17	15.59	RUN 9		0.29	174.93	4.90	20.99	116.6	15.6	128.8
05/22/01	18:57:40	115.97	15.59	RUN 9		0.29	174.93	4.90	20.99	116.4	15.6	128.5
05/22/01	18:57:45	115.97	15.59	RUN 9		0.29	174.93	4.90	20.99	116.4	15.6	128.5
05/22/01	18:57:50	115.97	15.59	RUN 9		0.29	174.93	4.90	20.99	116.4	15.6	128.5







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	19:12:15	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:20	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:12:25	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:12:30	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:35	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:40	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:45	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:50	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:12:55	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:00	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:13:05	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:10	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:15	114.99	15.56	RUN 9		0.29	174.93	4.90	20.99	115.4	15.5	126.7
05/22/01	19:13:20	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:25	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:30	114.99	15.56	RUN 9		0.29	174.93	4.90	20.99	115.4	15.5	126.7
05/22/01	19:13:35	114.99	15.56	RUN 9		0.29	174.93	4.90	20.99	115.4	15.5	126.7
05/22/01	19:13:40	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:13:45	114.80	15.56	RUN 9		0.29	174.93	4.90	20.99	115.2	15.5	126.5
05/22/01	19:13:50	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:13:55	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:14:00	114.40	15.56	RUN 9		0.29	174.93	4.90	20.99	114.8	15.5	126.1
05/22/01	19:14:05	114.60	15.56	RUN 9		0.29	174.93	4.90	20.99	115.0	15.5	126.3
05/22/01	19:14:10	114.40	15.56	RUN 9		0.29	174.93	4.90	20.99	114.8	15.5	126.1
05/22/01	19:14:15	114.21	15.56	RUN 9		0.29	174.93	4.90	20.99	114.8	15.5	126.1
05/22/01	19:14:20	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:14:25	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:14:30	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:14:35	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:14:40	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:14:45	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:14:50	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:14:55	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:15:00	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:15:05	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:15:10	113.62	15.56	RUN 9		0.29	174.93	4.90	20.99	114.0	15.5	125.2
05/22/01	19:15:15	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:20	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:25	114.01	15.56	RUN 9		0.29	174.93	4.90	20.99	114.4	15.5	125.7
05/22/01	19:15:30	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:35	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:40	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:45	113.82	15.56	RUN 9		0.29	174.93	4.90	20.99	114.2	15.5	125.4
05/22/01	19:15:50	114.01	15.56	RUN 9		0.29	174.93	4.90	20.99	114.4	15.5	125.7
05/22/01	19:15:55	114.01	15.56	RUN 9		0.29	174.93	4.90	20.99	114.4	15.5	125.7
		115.25	15.57	RUN 9 Average						115.7	15.5	127.2
05/22/01	19:16:00	114.01	15.56	STANDBY								
05/22/01	19:16:05	113.82	15.56	STANDBY								
05/22/01	19:16:10	113.82	15.59	STANDBY								
05/22/01	19:16:15	113.82	15.59	STANDBY								
05/22/01	19:16:20	113.82	15.56	STANDBY								
05/22/01	19:16:25	113.82	15.59	STANDBY								
05/22/01	19:16:30	113.82	15.59	STANDBY								
05/22/01	19:16:35	113.82	15.56	STANDBY								
05/22/01	19:16:40	114.01	15.56	STANDBY								
05/22/01	19:16:45	114.01	15.56	STANDBY								
05/22/01	19:16:50	113.82	15.56	STANDBY								
05/22/01	19:16:55	114.01	15.56	STANDBY								
05/22/01	19:17:00	113.82	15.56	STANDBY								
05/22/01	19:17:05	113.82	15.59	STANDBY								
05/22/01	19:17:10	113.62	15.56	STANDBY								
05/22/01	19:17:15	113.62	15.56	STANDBY								
05/22/01	19:17:20	113.62	15.59	STANDBY								
05/22/01	19:17:25	113.03	15.56	STANDBY								
05/22/01	19:17:30	112.44	15.53	STANDBY								
05/22/01	19:17:35	111.86	15.50	STANDBY								
05/22/01	19:17:40	100.49	15.37	STANDBY								
05/22/01	19:17:45	64.24	14.43	STANDBY								
05/22/01	19:17:50	26.22	12.18	STANDBY								
05/22/01	19:17:55	8.19	9.58	STANDBY								
05/22/01	19:18:00	2.70	7.70	STANDBY								
05/22/01	19:18:05	1.33	6.57	STANDBY								
05/22/01	19:18:10	0.75	5.91	STANDBY								
05/22/01	19:18:15	0.55	5.53	STANDBY								
05/22/01	19:18:20	0.55	5.32	STANDBY								
05/22/01	19:18:25	0.35	5.19	STANDBY								
05/22/01	19:18:30	0.35	5.10	STANDBY								
05/22/01	19:18:35	0.35	5.03	STANDBY								
05/22/01	19:18:40	0.35	5.00	STANDBY								
05/22/01	19:18:45	0.35	4.94	STANDBY								
05/22/01	19:18:50	0.35	4.94	STANDBY								
05/22/01	19:18:55	0.35	4.94	STANDBY								
05/22/01	19:19:00	0.35	4.91	STANDBY								
05/22/01	19:19:05	0.35	4.91	STANDBY								
05/22/01	19:19:10	0.16	4.91	STANDBY								
		63.60	11.38	STANDBY Average						#DIV/0!	#DIV/0!	#DIV/0!

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITH FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	TEST RUN	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/22/01	19:19:15	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:20	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:25	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:30	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:35	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:40	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:45	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:50	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:19:55	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:20:00	0.16	4.88	4.97 % O2, 0 NOX								
05/22/01	19:20:05	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	19:20:10	0.16	4.85	4.97 % O2, 0 NOX								
05/22/01	19:20:15	0.16	4.88	4.97 % O2, 0 NOX								
		0.16	4.87	4.97 % O2, 0 NOX Average						#DIV/0!	#DIV/0!	#DIV/0!
05/22/01	19:20:20	0.16	5.66	STANDBY								
05/22/01	19:20:25	0.16	10.64	STANDBY								
05/22/01	19:20:30	0.16	15.22	STANDBY								
05/22/01	19:20:35	9.96	17.72	STANDBY								
05/22/01	19:20:40	74.82	19.07	STANDBY								
05/22/01	19:20:45	131.65	19.82	STANDBY								
05/22/01	19:20:50	157.12	20.23	STANDBY								
05/22/01	19:20:55	167.81	20.48	STANDBY								
05/22/01	19:21:00	171.63	20.64	STANDBY								
05/22/01	19:21:05	173.19	20.73	STANDBY								
05/22/01	19:21:10	173.58	20.83	STANDBY								
05/22/01	19:21:15	173.96	20.86	STANDBY								
05/22/01	19:21:20	174.17	20.89	STANDBY								
05/22/01	19:21:25	174.37	20.92	STANDBY								
05/22/01	19:21:30	174.37	20.95	STANDBY								
05/22/01	19:21:35	174.58	20.95	STANDBY								
05/22/01	19:21:40	174.76	20.98	STANDBY								
05/22/01	19:21:45	174.76	20.98	STANDBY								
05/22/01	19:21:50	174.58	20.98	STANDBY								
05/22/01	19:21:55	174.76	20.98	STANDBY								
		131.51	18.98	STANDBY Average						#DIV/0!	#DIV/0!	#DIV/0!
05/22/01	19:22:00	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:05	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:10	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:15	175.35	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:20	174.96	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:25	175.15	20.98	175.7 NOX, 20.9 O2								
05/22/01	19:22:30	175.15	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:22:35	175.35	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:22:40	175.54	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:22:45	175.54	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:22:50	175.35	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:22:55	175.35	21.01	175.7 NOX, 20.9 O2								
05/22/01	19:23:00	174.96	20.98	175.7 NOX, 20.9 O2								
		175.23	21.00	175.7 NOX, 20.9 O2 Average						#DIV/0!	#DIV/0!	#DIV/0!
05/22/01	19:23:05	174.37	21.01	END TEST								
05/22/01	19:23:10	173.39	20.98	END TEST								
05/22/01	19:23:15	171.23	20.98	END TEST								
05/22/01	19:23:20	163.00	20.98	END TEST								
05/22/01	19:23:25	142.62	20.98	END TEST								
05/22/01	19:23:30	116.17	20.98	END TEST								
05/22/01	19:23:35	79.33	20.98	END TEST								
05/22/01	19:23:40	47.58	20.98	END TEST								
05/22/01	19:23:45	28.77	20.98	END TEST								
05/22/01	19:23:50	18.58	20.98	END TEST								
05/22/01	19:23:55	16.81	20.98	END TEST								
05/22/01	19:24:00	9.17	20.95	END TEST								

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.8	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:00:00	0.47	20.98	STANDBY							
05/23/01	12:00:05	0.47	20.98	STANDBY							
05/23/01	12:00:10	0.47	20.98	STANDBY							
05/23/01	12:00:15	0.47	20.98	STANDBY							
05/23/01	12:00:20	0.47	20.98	STANDBY							
05/23/01	12:00:25	0.47	20.98	STANDBY							
05/23/01	12:00:30	0.47	20.98	STANDBY							
05/23/01	12:00:35	0.47	20.98	STANDBY							
05/23/01	12:00:40	0.47	20.98	STANDBY							
05/23/01	12:00:45	0.47	20.98	STANDBY							
05/23/01	12:00:50	0.47	20.98	STANDBY							
05/23/01	12:00:55	0.47	20.98	STANDBY							
05/23/01	12:01:00	0.47	20.98	STANDBY							
05/23/01	12:01:05	0.47	20.98	STANDBY							
05/23/01	12:01:10	0.47	20.98	STANDBY							
05/23/01	12:01:15	0.47	20.98	STANDBY							
05/23/01	12:01:20	0.47	20.98	STANDBY							
05/23/01	12:01:25	0.47	20.98	STANDBY							
05/23/01	12:01:30	0.47	20.98	STANDBY							
05/23/01	12:01:35	0.47	20.98	STANDBY							
05/23/01	12:01:40	0.47	20.98	STANDBY							
05/23/01	12:01:45	0.47	20.98	STANDBY							
05/23/01	12:01:50	0.47	20.98	STANDBY							
05/23/01	12:01:55	0.47	20.98	STANDBY							
05/23/01	12:02:00	0.47	20.98	STANDBY							
05/23/01	12:02:05	0.47	20.98	STANDBY							
05/23/01	12:02:10	0.47	20.98	STANDBY							
05/23/01	12:02:15	0.47	20.98	STANDBY							
05/23/01	12:02:20	0.47	20.98	STANDBY							
05/23/01	12:02:25	0.47	20.98	STANDBY							
05/23/01	12:02:30	0.47	20.98	STANDBY							
05/23/01	12:02:35	0.47	20.98	STANDBY							
05/23/01	12:02:40	0.47	20.98	STANDBY							
05/23/01	12:02:45	0.47	20.98	STANDBY							
05/23/01	12:02:50	0.47	20.98	STANDBY							
05/23/01	12:02:55	0.47	20.98	STANDBY							
05/23/01	12:03:00	0.47	20.98	STANDBY							
05/23/01	12:03:05	0.47	20.98	STANDBY							
05/23/01	12:03:10	0.47	20.98	STANDBY							
05/23/01	12:03:15	0.47	20.98	STANDBY							
05/23/01	12:03:20	0.47	20.98	STANDBY							
05/23/01	12:03:25	0.47	20.98	STANDBY							
05/23/01	12:03:30	0.47	20.98	STANDBY							
05/23/01	12:03:35	0.47	20.98	STANDBY							
05/23/01	12:03:40	0.47	20.98	STANDBY							
05/23/01	12:03:45	0.47	21.01	STANDBY							
05/23/01	12:03:50	0.47	21.01	STANDBY							
05/23/01	12:03:55	0.47	20.98	STANDBY							
05/23/01	12:04:00	0.47	21.01	STANDBY							
05/23/01	12:04:05	0.47	21.01	STANDBY							
05/23/01	12:04:10	0.47	21.01	STANDBY							
05/23/01	12:04:15	0.47	21.01	STANDBY							
05/23/01	12:04:20	0.47	21.01	STANDBY							
05/23/01	12:04:25	0.47	21.01	STANDBY							
05/23/01	12:04:30	0.47	21.01	STANDBY							
05/23/01	12:04:35	0.47	21.01	STANDBY							
05/23/01	12:04:40	0.47	21.01	STANDBY							
05/23/01	12:04:45	0.47	21.01	STANDBY							
05/23/01	12:04:50	0.47	21.01	STANDBY							
05/23/01	12:04:55	0.47	21.01	STANDBY							
05/23/01	12:05:00	0.47	21.01	STANDBY							
05/23/01	12:05:05	0.47	21.01	STANDBY							
05/23/01	12:05:10	0.47	21.01	STANDBY							
05/23/01	12:05:15	0.47	21.01	STANDBY							
05/23/01	12:05:20	0.47	21.01	STANDBY							
05/23/01	12:05:25	0.47	21.01	STANDBY							
05/23/01	12:05:30	0.47	21.01	STANDBY							
05/23/01	12:05:35	0.47	21.05	STANDBY							
05/23/01	12:05:40	0.47	21.01	STANDBY							
05/23/01	12:05:45	0.47	21.05	STANDBY							
05/23/01	12:05:50	0.47	21.05	STANDBY							
05/23/01	12:05:55	0.47	21.05	STANDBY							
05/23/01	12:06:00	0.47	21.05	STANDBY							
05/23/01	12:06:05	0.47	21.05	STANDBY							
05/23/01	12:06:10	0.47	21.05	STANDBY							
05/23/01	12:06:15	0.47	21.05	STANDBY							
05/23/01	12:06:20	0.47	21.05	STANDBY							
05/23/01	12:06:25	0.47	21.05	STANDBY							
05/23/01	12:06:30	0.47	21.05	STANDBY							
05/23/01	12:06:35	0.47	21.05	STANDBY							
05/23/01	12:06:40	0.47	21.05	STANDBY							
05/23/01	12:06:45	0.47	21.05	STANDBY							
05/23/01	12:06:50	0.47	21.05	STANDBY							
05/23/01	12:06:55	0.47	21.05	STANDBY							
05/23/01	12:07:00	0.47	21.05	STANDBY							
05/23/01	12:07:05	0.47	21.05	STANDBY							
05/23/01	12:07:10	0.47	21.05	STANDBY							
05/23/01	12:07:15	0.47	21.05	STANDBY							
05/23/01	12:07:20	0.47	21.05	STANDBY							

**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:07:25	0.47	21.05	STANDBY							
05/23/01	12:07:30	0.47	21.05	STANDBY							
05/23/01	12:07:35	0.47	21.05	STANDBY							
05/23/01	12:07:40	0.47	21.05	STANDBY							
05/23/01	12:07:45	0.47	21.05	STANDBY							
05/23/01	12:07:50	0.47	21.05	STANDBY							
05/23/01	12:07:55	0.47	21.05	STANDBY							
05/23/01	12:08:00	0.47	21.05	STANDBY							
05/23/01	12:08:05	0.47	21.05	STANDBY							
05/23/01	12:08:10	0.47	21.05	STANDBY							
05/23/01	12:08:15	0.47	21.05	STANDBY							
05/23/01	12:08:20	0.47	21.05	STANDBY							
05/23/01	12:08:25	0.47	21.05	STANDBY							
05/23/01	12:08:30	0.47	21.05	STANDBY							
05/23/01	12:08:35	0.47	21.05	STANDBY							
05/23/01	12:08:40	0.47	21.05	STANDBY							
05/23/01	12:08:45	0.47	21.05	STANDBY							
05/23/01	12:08:50	0.47	21.05	STANDBY							
05/23/01	12:08:55	0.47	21.05	STANDBY							
05/23/01	12:09:00	0.47	21.05	STANDBY							
05/23/01	12:09:05	0.47	21.05	STANDBY							
05/23/01	12:09:10	0.47	21.05	STANDBY							
05/23/01	12:09:15	0.47	21.05	STANDBY							
05/23/01	12:09:20	0.47	21.05	STANDBY							
05/23/01	12:09:25	0.47	21.05	STANDBY							
05/23/01	12:09:30	0.47	21.05	STANDBY							
05/23/01	12:09:35	0.47	21.05	STANDBY							
05/23/01	12:09:40	0.47	21.05	STANDBY							
05/23/01	12:09:45	0.47	21.05	STANDBY							
05/23/01	12:09:50	0.47	21.05	STANDBY							
05/23/01	12:09:55	0.47	21.05	STANDBY							
05/23/01	12:10:00	0.47	21.05	STANDBY							
05/23/01	12:10:05	0.47	21.05	STANDBY							
05/23/01	12:10:10	0.47	21.05	STANDBY							
05/23/01	12:10:15	0.47	21.05	STANDBY							
05/23/01	12:10:20	0.47	21.05	STANDBY							
05/23/01	12:10:25	0.28	21.05	STANDBY							
05/23/01	12:10:30	0.47	21.05	STANDBY							
05/23/01	12:10:35	0.47	21.05	STANDBY							
05/23/01	12:10:40	0.47	21.05	STANDBY							
05/23/01	12:10:45	0.47	21.05	STANDBY							
05/23/01	12:10:50	0.47	21.05	STANDBY							
05/23/01	12:10:55	0.47	21.05	STANDBY							
05/23/01	12:11:00	0.47	21.05	STANDBY							
05/23/01	12:11:05	0.47	21.05	STANDBY							
05/23/01	12:11:10	0.47	21.05	STANDBY							
05/23/01	12:11:15	0.47	21.05	STANDBY							
05/23/01	12:11:20	0.47	21.05	STANDBY							
05/23/01	12:11:25	0.47	21.05	STANDBY							
05/23/01	12:11:30	0.47	21.05	STANDBY							
05/23/01	12:11:35	0.47	21.08	STANDBY							
05/23/01	12:11:40	0.47	21.05	STANDBY							
05/23/01	12:11:45	0.47	21.05	STANDBY							
05/23/01	12:11:50	0.47	21.05	STANDBY							
05/23/01	12:11:55	0.47	21.05	STANDBY							
		0.47	21.02	STANDBY Average							
05/23/01	12:12:00	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:05	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:10	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:15	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:20	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:25	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:30	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:35	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:40	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:45	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:50	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:12:55	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:13:00	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:13:05	0.47	21.05	0 NOX, 20.9% O2							
05/23/01	12:13:10	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:15	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:20	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:25	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:30	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:35	0.47	21.08	0 NOX, 20.9% O2							
05/23/01	12:13:40	0.47	21.08	0 NOX, 20.9% O2							
		0.47	21.06	0 NOX, 20.9% O2 Average							
05/23/01	12:13:45	0.47	19.45	STANDBY							
05/23/01	12:13:50	0.47	14.31	STANDBY							
05/23/01	12:13:55	0.47	10.42	STANDBY							
05/23/01	12:14:00	0.47	8.20	STANDBY							
05/23/01	12:14:05	0.47	6.94	STANDBY							
05/23/01	12:14:10	0.47	6.22	STANDBY							
05/23/01	12:14:15	0.47	5.82	STANDBY							
05/23/01	12:14:20	0.47	5.53	STANDBY							
05/23/01	12:14:25	0.47	5.35	STANDBY							
05/23/01	12:14:30	0.47	5.22	STANDBY							
05/23/01	12:14:35	0.47	5.16	STANDBY							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:14:40	0.47	5.10	STANDBY							
05/23/01	12:14:45	0.47	5.06	STANDBY							
05/23/01	12:14:50	0.47	5.03	STANDBY							
05/23/01	12:14:55	0.47	5.00	STANDBY							
05/23/01	12:15:00	0.47	4.97	STANDBY							
05/23/01	12:15:05	0.47	4.97	STANDBY							
		0.47	7.22	STANDBY Average							
05/23/01	12:15:10	0.47	4.94	0 NOX, 4.97% O2							
05/23/01	12:15:15	0.47	4.94	0 NOX, 4.97% O2							
05/23/01	12:15:20	0.47	4.94	0 NOX, 4.97% O2							
05/23/01	12:15:25	0.47	4.94	0 NOX, 4.97% O2							
05/23/01	12:15:30	0.47	4.91	0 NOX, 4.97% O2							
05/23/01	12:15:35	0.47	4.91	0 NOX, 4.97% O2							
05/23/01	12:15:40	0.47	4.91	0 NOX, 4.97% O2							
05/23/01	12:15:45	0.47	4.91	0 NOX, 4.97% O2							
05/23/01	12:15:50	0.47	4.91	0 NOX, 4.97% O2							
		0.47	4.92	0 NOX, 4.97% O2 Average							
05/23/01	12:15:55	0.85	4.91	STANDBY							
05/23/01	12:16:00	35.94	4.81	STANDBY							
05/23/01	12:16:05	109.14	4.12	STANDBY							
05/23/01	12:16:10	150.48	2.90	STANDBY							
05/23/01	12:16:15	165.28	1.81	STANDBY							
05/23/01	12:16:20	170.21	1.05	STANDBY							
05/23/01	12:16:25	172.29	1.15	STANDBY							
05/23/01	12:16:30	173.05	6.35	STANDBY							
05/23/01	12:16:35	174.00	12.37	STANDBY							
05/23/01	12:16:40	174.19	18.00	STANDBY							
05/23/01	12:16:45	174.57	16.04	STANDBY							
05/23/01	12:16:50	174.95	19.17	STANDBY							
05/23/01	12:16:55	175.14	19.82	STANDBY							
05/23/01	12:17:00	175.33	20.23	STANDBY							
		144.67	9.48	STANDBY Average							
05/23/01	12:17:05	175.71	20.48	175.7 NOX, 20.9 O2							
05/23/01	12:17:10	175.71	20.64	175.7 NOX, 20.9 O2							
05/23/01	12:17:15	175.71	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:17:20	176.09	20.83	175.7 NOX, 20.9 O2							
05/23/01	12:17:25	175.90	20.86	175.7 NOX, 20.9 O2							
05/23/01	12:17:30	178.09	20.92	175.7 NOX, 20.9 O2							
05/23/01	12:17:35	178.28	20.95	175.7 NOX, 20.9 O2							
05/23/01	12:17:40	178.47	20.98	175.7 NOX, 20.9 O2							
05/23/01	12:17:45	178.28	20.98	175.7 NOX, 20.9 O2							
05/23/01	12:17:50	176.47	20.98	175.7 NOX, 20.9 O2							
05/23/01	12:17:55	178.47	21.01	175.7 NOX, 20.9 O2							
05/23/01	12:18:00	176.47	21.01	175.7 NOX, 20.9 O2							
05/23/01	12:18:05	176.47	21.01	175.7 NOX, 20.9 O2							
		176.18	20.88	175.7 NOX, 20.9 O2 Average							
05/23/01	12:18:10	171.91	21.05	STANDBY							
05/23/01	12:18:15	151.81	21.05	STANDBY							
05/23/01	12:18:20	93.21	21.05	STANDBY							
05/23/01	12:18:25	54.14	21.05	STANDBY							
05/23/01	12:18:30	55.28	21.05	STANDBY							
05/23/01	12:18:35	67.61	21.05	STANDBY							
05/23/01	12:18:40	75.19	21.05	STANDBY							
05/23/01	12:18:45	79.18	21.05	STANDBY							
05/23/01	12:18:50	81.07	21.05	STANDBY							
05/23/01	12:18:55	82.21	21.05	STANDBY							
05/23/01	12:19:00	82.40	21.05	STANDBY							
05/23/01	12:19:05	82.78	21.05	STANDBY							
05/23/01	12:19:10	83.16	21.08	STANDBY							
05/23/01	12:19:15	83.35	21.05	STANDBY							
05/23/01	12:19:20	83.16	21.05	STANDBY							
		88.43	21.05	STANDBY Average							
05/23/01	12:19:25	83.54	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:19:30	83.54	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:19:35	83.73	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:19:40	83.73	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:19:45	83.92	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:19:50	83.73	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:19:55	83.92	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:20:00	84.11	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:20:05	83.92	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:20:10	84.11	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:15	83.92	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:20	84.11	21.08	84.98 NOX, 20.9 O2							
05/23/01	12:20:25	83.92	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:30	84.11	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:35	84.30	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:40	84.30	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:45	83.92	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:50	83.73	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:20:55	83.73	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:00	84.11	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:05	84.49	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:10	84.68	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:15	84.68	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:20	84.87	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:25	85.06	21.05	84.98 NOX, 20.9 O2							
05/23/01	12:21:30	84.87	21.05	84.98 NOX, 20.9 O2							
		84.11	21.05	84.98 NOX, 20.9 O2 Average							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:21:35	82.40	21.05	STANDBY							
05/23/01	12:21:40	70.26	21.05	STANDBY							
05/23/01	12:21:45	34.99	21.05	STANDBY							
05/23/01	12:21:50	13.56	21.05	STANDBY							
05/23/01	12:21:55	5.22	19.89	STANDBY							
05/23/01	12:22:00	2.56	16.94	STANDBY							
05/23/01	12:22:05	1.80	14.87	STANDBY							
05/23/01	12:22:10	1.42	13.71	STANDBY							
05/23/01	12:22:15	1.23	13.06	STANDBY							
05/23/01	12:22:20	1.23	12.71	STANDBY							
05/23/01	12:22:25	1.04	12.49	STANDBY							
05/23/01	12:22:30	1.04	12.37	STANDBY							
05/23/01	12:22:35	1.04	12.27	STANDBY							
05/23/01	12:22:40	0.85	12.21	STANDBY							
05/23/01	12:22:45	0.85	12.18	STANDBY							
05/23/01	12:22:50	0.85	12.15	STANDBY							
05/23/01	12:22:55	0.66	12.12	STANDBY							
05/23/01	12:23:00	0.85	12.12	STANDBY							
		12.33	15.18	STANDBY Average							
05/23/01	12:23:05	0.85	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:10	0.66	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:15	0.66	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:20	0.66	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:25	0.85	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:30	0.66	12.08	11.9 O2, 0 NOX							
05/23/01	12:23:35	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:23:40	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:23:45	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:23:50	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:23:55	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:24:00	0.66	12.05	11.9 O2, 0 NOX							
05/23/01	12:24:05	0.66	12.05	11.9 O2, 0 NOX							
		0.69	12.07	11.9 O2, 0 NOX Average							
05/23/01	12:24:10	5.22	11.99	STANDBY							
05/23/01	12:24:15	23.80	11.58	STANDBY							
05/23/01	12:24:20	37.46	13.68	STANDBY							
05/23/01	12:24:25	43.33	18.66	STANDBY							
05/23/01	12:24:30	45.42	18.46	STANDBY							
05/23/01	12:24:35	45.99	19.51	STANDBY							
05/23/01	12:24:40	46.37	20.07	STANDBY							
		35.37	16.00	STANDBY Average							
05/23/01	12:24:45	46.75	20.42	47.6 NOX, 20.9 O2							
05/23/01	12:24:50	46.75	20.61	47.6 NOX, 20.9 O2							
05/23/01	12:24:55	46.75	20.73	47.6 NOX, 20.9 O2							
05/23/01	12:25:00	46.94	20.83	47.6 NOX, 20.9 O2							
05/23/01	12:25:05	46.75	20.89	47.6 NOX, 20.9 O2							
05/23/01	12:25:10	46.94	20.92	47.6 NOX, 20.9 O2							
05/23/01	12:25:15	46.94	20.95	47.6 NOX, 20.9 O2							
05/23/01	12:25:20	46.94	20.95	47.6 NOX, 20.9 O2							
05/23/01	12:25:25	46.94	20.98	47.6 NOX, 20.9 O2							
05/23/01	12:25:30	47.13	20.98	47.6 NOX, 20.9 O2							
05/23/01	12:25:35	46.94	20.98	47.6 NOX, 20.9 O2							
05/23/01	12:25:40	46.94	20.98	47.6 NOX, 20.9 O2							
05/23/01	12:25:45	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:25:50	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:25:55	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:00	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:05	46.75	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:10	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:15	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:20	46.94	21.01	47.6 NOX, 20.9 O2							
05/23/01	12:26:25	46.94	21.05	47.6 NOX, 20.9 O2							
		46.90	20.92	47.6 NOX, 20.9 O2 Average							
05/23/01	12:26:30	46.75	21.05	STANDBY							
05/23/01	12:26:35	59.08	21.05	STANDBY							
05/23/01	12:26:40	109.52	21.05	STANDBY							
05/23/01	12:26:45	134.93	21.05	STANDBY							
05/23/01	12:26:50	140.43	21.05	STANDBY							
05/23/01	12:26:55	141.00	21.05	STANDBY							
05/23/01	12:27:00	141.38	21.05	STANDBY							
05/23/01	12:27:05	141.95	20.64	STANDBY							
05/23/01	12:27:10	141.95	19.01	STANDBY							
05/23/01	12:27:15	139.86	17.69	STANDBY							
05/23/01	12:27:20	141.95	16.91	STANDBY							
05/23/01	12:27:25	142.71	16.47	STANDBY							
05/23/01	12:27:30	141.76	16.19	STANDBY							
05/23/01	12:27:35	141.76	16.06	STANDBY							
05/23/01	12:27:40	141.38	15.94	STANDBY							
05/23/01	12:27:45	141.76	15.91	STANDBY							
05/23/01	12:27:50	142.52	15.84	STANDBY							
05/23/01	12:27:55	142.90	15.81	STANDBY							
		129.64	16.54	STANDBY Average							
05/23/01	12:28:00	141.95	15.78	RUN 1	0.62	176.71	4.90	20.83	141.0	15.9	165.0
05/23/01	12:28:05	141.95	15.78	RUN 1	0.62	176.71	4.90	20.83	141.0	15.9	165.0
05/23/01	12:28:10	142.52	15.78	RUN 1	0.62	176.71	4.90	20.83	141.6	15.9	165.6
05/23/01	12:28:15	143.09	15.75	RUN 1	0.62	176.71	4.90	20.83	142.2	15.8	165.3
05/23/01	12:28:20	143.47	15.75	RUN 1	0.62	176.71	4.90	20.83	142.5	15.8	165.7
05/23/01	12:28:25	143.28	15.72	RUN 1	0.62	178.71	4.90	20.83	142.3	15.8	164.4
05/23/01	12:28:30	143.47	15.72	RUN 1	0.62	176.71	4.90	20.83	142.5	15.8	164.7







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.8	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:43:25	141.95	15.62	RUN 1	0.62	176.71	4.90	20.83	141.0	15.7	160.0
05/23/01	12:43:30	143.28	15.62	RUN 1	0.62	176.71	4.90	20.83	142.3	15.7	161.5
05/23/01	12:43:35	143.66	15.62	RUN 1	0.62	176.71	4.90	20.83	142.7	15.7	161.9
05/23/01	12:43:40	144.04	15.59	RUN 1	0.62	176.71	4.90	20.83	143.1	15.7	161.4
05/23/01	12:43:45	143.28	15.59	RUN 1	0.62	176.71	4.90	20.83	142.3	15.7	160.5
05/23/01	12:43:50	143.66	15.59	RUN 1	0.62	176.71	4.90	20.83	142.7	15.7	160.9
05/23/01	12:43:55	142.52	15.59	RUN 1	0.62	176.71	4.90	20.83	141.6	15.7	159.7
05/23/01	12:44:00	141.38	15.62	RUN 1	0.62	176.71	4.90	20.83	140.5	15.7	159.3
05/23/01	12:44:05	141.95	15.62	RUN 1	0.62	176.71	4.90	20.83	141.0	15.7	160.0
05/23/01	12:44:10	140.24	15.66	RUN 1	0.62	176.71	4.90	20.83	139.3	15.7	159.0
05/23/01	12:44:15	141.57	15.66	RUN 1	0.62	176.71	4.90	20.83	140.6	15.7	160.5
05/23/01	12:44:20	142.90	15.62	RUN 1	0.62	176.71	4.90	20.83	142.0	15.7	161.0
05/23/01	12:44:25	143.28	15.62	RUN 1	0.62	176.71	4.90	20.83	142.3	15.7	161.5
05/23/01	12:44:30	142.52	15.59	RUN 1	0.62	176.71	4.90	20.83	141.6	15.7	159.7
05/23/01	12:44:35	141.76	15.62	RUN 1	0.62	176.71	4.90	20.83	140.8	15.7	159.8
05/23/01	12:44:40	140.43	15.62	RUN 1	0.62	176.71	4.90	20.83	139.5	15.7	158.3
05/23/01	12:44:45	139.48	15.66	RUN 1	0.62	176.71	4.90	20.83	138.6	15.7	158.2
05/23/01	12:44:50	137.97	15.72	RUN 1	0.62	176.71	4.90	20.83	137.0	15.8	158.3
05/23/01	12:44:55	139.66	15.69	RUN 1	0.62	176.71	4.90	20.83	138.9	15.8	159.5
05/23/01	12:45:00	140.43	15.69	RUN 1	0.62	176.71	4.90	20.83	139.5	15.8	160.2
05/23/01	12:45:05	139.30	15.69	RUN 1	0.62	176.71	4.90	20.83	138.4	15.8	158.9
05/23/01	12:45:10	138.92	15.69	RUN 1	0.62	176.71	4.90	20.83	138.0	15.8	158.5
05/23/01	12:45:15	140.62	15.69	RUN 1	0.62	176.71	4.90	20.83	139.7	15.8	160.4
05/23/01	12:45:20	141.38	15.66	RUN 1	0.62	176.71	4.90	20.83	140.5	15.7	160.3
05/23/01	12:45:25	140.43	15.66	RUN 1	0.62	176.71	4.90	20.83	139.5	15.7	159.2
05/23/01	12:45:30	140.06	15.66	RUN 1	0.62	176.71	4.90	20.83	139.1	15.7	158.8
05/23/01	12:45:35	142.90	15.66	RUN 1	0.62	176.71	4.90	20.83	142.0	15.7	162.0
05/23/01	12:45:40	142.33	15.62	RUN 1	0.62	176.71	4.90	20.83	141.4	15.7	160.4
05/23/01	12:45:45	142.90	15.59	RUN 1	0.62	176.71	4.90	20.83	142.0	15.7	160.1
05/23/01	12:45:50	143.66	15.59	RUN 1	0.62	176.71	4.90	20.83	142.7	15.7	160.9
05/23/01	12:45:55	144.04	15.56	RUN 1	0.62	176.71	4.90	20.83	143.1	15.6	160.4
05/23/01	12:46:00	143.47	15.53	RUN 1	0.62	176.71	4.90	20.83	142.5	15.6	158.8
05/23/01	12:46:05	141.95	15.53	RUN 1	0.62	176.71	4.90	20.83	141.0	15.6	157.1
05/23/01	12:46:10	141.19	15.56	RUN 1	0.62	176.71	4.90	20.83	140.3	15.6	157.2
05/23/01	12:46:15	141.00	15.59	RUN 1	0.62	176.71	4.90	20.83	140.1	15.7	158.0
05/23/01	12:46:20	142.52	15.59	RUN 1	0.62	176.71	4.90	20.83	141.6	15.7	159.7
05/23/01	12:46:25	143.47	15.56	RUN 1	0.62	176.71	4.90	20.83	142.5	15.6	159.8
05/23/01	12:46:30	144.04	15.56	RUN 1	0.62	176.71	4.90	20.83	143.1	15.6	160.4
05/23/01	12:46:35	141.76	15.53	RUN 1	0.62	176.71	4.90	20.83	140.8	15.6	156.9
05/23/01	12:46:40	142.52	15.56	RUN 1	0.62	176.71	4.90	20.83	141.6	15.6	158.7
05/23/01	12:46:45	143.09	15.56	RUN 1	0.62	176.71	4.90	20.83	142.2	15.6	159.4
05/23/01	12:46:50	142.71	15.56	RUN 1	0.62	176.71	4.90	20.83	141.8	15.6	158.9
05/23/01	12:46:55	143.09	15.53	RUN 1	0.62	176.71	4.90	20.83	142.2	15.6	158.4
05/23/01	12:47:00	143.09	15.53	RUN 1	0.62	176.71	4.90	20.83	142.2	15.6	158.4
05/23/01	12:47:05	142.90	15.53	RUN 1	0.62	176.71	4.90	20.83	142.0	15.6	158.2
05/23/01	12:47:10	142.14	15.53	RUN 1	0.62	176.71	4.90	20.83	141.2	15.6	157.3
05/23/01	12:47:15	141.95	15.53	RUN 1	0.62	176.71	4.90	20.83	141.0	15.6	157.1
05/23/01	12:47:20	140.43	15.56	RUN 1	0.62	176.71	4.90	20.83	139.5	15.8	156.4
05/23/01	12:47:25	142.52	15.56	RUN 1	0.62	176.71	4.90	20.83	141.6	15.6	158.7
05/23/01	12:47:30	143.09	15.56	RUN 1	0.62	176.71	4.90	20.83	142.2	15.6	159.4
05/23/01	12:47:35	143.47	15.53	RUN 1	0.62	176.71	4.90	20.83	142.5	15.6	158.8
05/23/01	12:47:40	141.95	15.53	RUN 1	0.62	176.71	4.90	20.83	141.0	15.6	157.1
05/23/01	12:47:45	139.67	15.56	RUN 1	0.62	176.71	4.90	20.83	138.7	15.6	155.5
05/23/01	12:47:50	142.52	15.56	RUN 1	0.62	176.71	4.90	20.83	141.6	15.6	158.7
05/23/01	12:47:55	143.28	15.56	RUN 1	0.62	176.71	4.90	20.83	142.3	15.6	159.6
05/23/01	12:48:00	142.90	15.53	RUN 1	0.62	176.71	4.90	20.83	142.0	15.6	158.2
05/23/01	12:48:05	143.47	15.50	RUN 1	0.62	176.71	4.90	20.83	142.5	15.6	157.9
05/23/01	12:48:10	142.90	15.53	RUN 1	0.62	176.71	4.90	20.83	142.0	15.6	158.2
05/23/01	12:48:15	141.38	15.53	RUN 1	0.62	176.71	4.90	20.83	140.5	15.6	156.5
05/23/01	12:48:20	142.14	15.53	RUN 1	0.62	176.71	4.90	20.83	141.2	15.6	157.3
05/23/01	12:48:25	143.09	15.53	RUN 1	0.62	176.71	4.90	20.83	142.2	15.6	158.4
05/23/01	12:48:30	143.66	15.50	RUN 1	0.62	176.71	4.90	20.83	142.7	15.6	158.1
05/23/01	12:48:35	143.66	15.47	RUN 1	0.62	176.71	4.90	20.83	142.7	15.5	157.2
05/23/01	12:48:40	143.28	15.47	RUN 1	0.62	176.71	4.90	20.83	142.3	15.5	156.8
05/23/01	12:48:45	142.90	15.47	RUN 1	0.62	176.71	4.90	20.83	142.0	15.5	156.4
05/23/01	12:48:50	142.90	15.47	RUN 1	0.62	176.71	4.90	20.83	142.0	15.5	156.4
05/23/01	12:48:55	142.90	15.47	RUN 1	0.62	176.71	4.90	20.83	142.0	15.5	156.4
05/23/01		142.48	15.67	RUN 1 Average					141.5	15.7	162.0
05/23/01	12:49:00	144.04	15.47	STANDBY							
05/23/01	12:49:05	144.42	15.47	STANDBY							
05/23/01	12:49:10	144.23	15.47	STANDBY							
05/23/01	12:49:15	144.61	15.47	STANDBY							
05/23/01	12:49:20	144.61	15.47	STANDBY							
05/23/01	12:49:25	144.61	15.44	STANDBY							
05/23/01	12:49:30	144.61	15.44	STANDBY							
05/23/01	12:49:35	144.23	15.44	STANDBY							
05/23/01	12:49:40	144.23	15.44	STANDBY							
05/23/01	12:49:45	144.42	15.44	STANDBY							
05/23/01	12:49:50	144.23	15.44	STANDBY							
05/23/01	12:49:55	144.23	15.44	STANDBY							
05/23/01	12:50:00	144.61	15.44	STANDBY							
05/23/01	12:50:05	144.42	15.44	STANDBY							
05/23/01	12:50:10	144.61	15.44	STANDBY							
05/23/01	12:50:15	144.23	15.44	STANDBY							
05/23/01	12:50:20	144.61	15.44	STANDBY							
05/23/01	12:50:25	144.42	15.44	STANDBY							
05/23/01	12:50:30	144.42	15.44	STANDBY							
05/23/01	12:50:35	144.42	15.44	STANDBY							
05/23/01	12:50:40	144.23	15.44	STANDBY							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	12:50:45	144.42	15.44	STANDBY							
05/23/01	12:50:50	144.42	15.44	STANDBY							
05/23/01	12:50:55	144.23	15.44	STANDBY							
05/23/01	12:51:00	144.04	15.44	STANDBY							
05/23/01	12:51:05	144.23	15.44	STANDBY							
05/23/01	12:51:10	144.23	15.44	STANDBY							
05/23/01	12:51:15	143.85	15.44	STANDBY							
05/23/01	12:51:20	144.23	15.44	STANDBY							
05/23/01	12:51:25	144.04	15.44	STANDBY							
05/23/01	12:51:30	143.85	15.44	STANDBY							
05/23/01	12:51:35	143.47	15.44	STANDBY							
05/23/01	12:51:40	143.09	15.44	STANDBY							
05/23/01	12:51:45	144.04	15.47	STANDBY							
05/23/01	12:51:50	144.04	15.47	STANDBY							
05/23/01	12:51:55	142.52	15.47	STANDBY							
05/23/01	12:52:00	143.66	15.47	STANDBY							
05/23/01	12:52:05	144.42	15.47	STANDBY							
05/23/01	12:52:10	144.61	15.47	STANDBY							
05/23/01	12:52:15	144.79	15.44	STANDBY							
05/23/01	12:52:20	144.61	15.44	STANDBY							
05/23/01	12:52:25	144.61	15.44	STANDBY							
05/23/01	12:52:30	144.42	15.44	STANDBY							
05/23/01	12:52:35	144.61	15.44	STANDBY							
05/23/01	12:52:40	144.23	16.44	STANDBY							
05/23/01	12:52:45	144.61	15.44	STANDBY							
05/23/01	12:52:50	144.61	15.44	STANDBY							
05/23/01	12:52:56	144.61	15.44	STANDBY							
05/23/01	12:53:00	144.23	15.44	STANDBY							
05/23/01	12:53:05	144.42	15.44	STANDBY							
05/23/01	12:53:10	144.42	15.44	STANDBY							
05/23/01	12:53:15	144.42	15.44	STANDBY							
05/23/01	12:53:20	144.23	15.44	STANDBY							
05/23/01	12:53:25	144.23	15.44	STANDBY							
05/23/01	12:53:30	143.28	15.44	STANDBY							
05/23/01	12:53:35	141.95	15.41	STANDBY							
05/23/01	12:53:40	141.78	15.37	STANDBY							
05/23/01	12:53:45	140.43	15.41	STANDBY							
05/23/01	12:53:50	113.88	16.31	STANDBY							
05/23/01	12:53:55	104.21	17.94	STANDBY							
05/23/01	12:54:00	138.73	19.07	STANDBY							
05/23/01	12:54:05	160.16	19.70	STANDBY							
05/23/01	12:54:10	169.64	20.07	STANDBY							
05/23/01	12:54:15	173.24	20.29	STANDBY							
05/23/01	12:54:20	174.95	20.45	STANDBY							
05/23/01	12:54:25	175.33	20.51	STANDBY							
05/23/01	12:54:30	175.71	20.58	STANDBY							
05/23/01	12:54:35	176.09	20.61	STANDBY							
05/23/01	12:54:40	176.28	20.64	STANDBY							
05/23/01	12:54:45	176.47	20.67	STANDBY							
05/23/01	12:54:50	176.66	20.67	STANDBY							
05/23/01	12:54:55	176.47	20.67	STANDBY							
		147.58	16.30	STANDBY Average							
05/23/01	12:55:00	176.84	20.70	175.7 NOX, 20.9 O2							
05/23/01	12:55:05	176.84	20.70	175.7 NOX, 20.9 O2							
05/23/01	12:55:10	177.03	20.70	175.7 NOX, 20.9 O2							
05/23/01	12:55:15	177.03	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:20	177.03	20.70	175.7 NOX, 20.9 O2							
05/23/01	12:55:25	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:30	177.03	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:35	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:40	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:45	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:50	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:55:55	177.03	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:00	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:05	176.84	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:10	177.41	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:15	177.60	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:20	177.79	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:25	177.98	20.73	175.7 NOX, 20.9 O2							
05/23/01	12:56:30	177.98	20.73	175.7 NOX, 20.9 O2							
		177.25	20.73	175.7 NOX, 20.9 O2 Average							
05/23/01	12:56:35	178.17	20.73	STANDBY							
05/23/01	12:56:40	178.17	20.73	STANDBY							
05/23/01	12:56:45	171.35	20.73	STANDBY							
05/23/01	12:56:50	98.33	20.73	STANDBY							
05/23/01	12:56:55	32.15	20.73	STANDBY							
05/23/01	12:57:00	10.53	20.67	STANDBY							
05/23/01	12:57:05	4.46	17.88	STANDBY							
05/23/01	12:57:10	2.75	13.02	STANDBY							
05/23/01	12:57:15	1.99	9.73	STANDBY							
05/23/01	12:57:20	1.61	7.62	STANDBY							
05/23/01	12:57:25	1.42	6.73	STANDBY							
05/23/01	12:57:30	1.23	6.07	STANDBY							
05/23/01	12:57:35	1.23	5.66	STANDBY							
05/23/01	12:57:40	1.04	5.41	STANDBY							
05/23/01	12:57:45	1.04	5.22	STANDBY							
05/23/01	12:57:50	1.04	5.13	STANDBY							
		42.91	12.94	STANDBY Average							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	Max CORRECTED TO 15% O2
05/23/01	12:57:55	0.85	5.03	4.97 % O2, 0 NOX							
05/23/01	12:58:00	0.85	4.97	4.97 % O2, 0 NOX							
05/23/01	12:58:05	0.85	4.94	4.97 % O2, 0 NOX							
05/23/01	12:58:10	0.85	4.91	4.97 % O2, 0 NOX							
05/23/01	12:58:15	0.85	4.88	4.97 % O2, 0 NOX							
05/23/01	12:58:20	0.85	4.88	4.97 % O2, 0 NOX							
05/23/01	12:58:25	0.85	4.85	4.97 % O2, 0 NOX							
05/23/01	12:58:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	12:58:35	0.85	4.81	4.97 % O2, 0 NOX							
05/23/01	12:58:40	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	12:58:45	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	12:58:50	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	12:58:55	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	12:59:00	0.66	4.78	4.97 % O2, 0 NOX							
		0.77	4.87								
				4.97 % O2, 0 NOX Average							
05/23/01	12:59:05	17.16	4.91	STANDBY							
05/23/01	12:59:10	110.66	6.73	STANDBY							
05/23/01	12:59:15	140.43	9.83	STANDBY							
05/23/01	12:59:20	143.66	12.05	STANDBY							
05/23/01	12:59:25	144.42	13.40	STANDBY							
05/23/01	12:59:30	143.85	14.18	STANDBY							
05/23/01	12:59:35	144.79	14.62	STANDBY							
05/23/01	12:59:40	144.79	14.90	STANDBY							
05/23/01	12:59:45	144.79	15.06	STANDBY							
05/23/01	12:59:50	144.61	15.19	STANDBY							
05/23/01	12:59:55	144.98	15.25	STANDBY							
		129.47	12.37	STANDBY Average							
05/23/01	13:00:00	144.42	15.31	RUN 2	0.72	177.21	4.86	20.76	143.1	15.4	154.7
05/23/01	13:00:05	144.79	15.34	RUN 2	0.72	177.21	4.86	20.76	143.4	15.5	158.0
05/23/01	13:00:10	144.98	15.37	RUN 2	0.72	177.21	4.86	20.76	143.6	15.5	157.1
05/23/01	13:00:15	144.98	15.41	RUN 2	0.72	177.21	4.86	20.76	143.6	15.5	158.0
05/23/01	13:00:20	144.79	15.41	RUN 2	0.72	177.21	4.86	20.76	143.4	15.5	157.6
05/23/01	13:00:25	144.42	15.41	RUN 2	0.72	177.21	4.86	20.76	143.1	15.5	157.4
05/23/01	13:00:30	144.61	15.44	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	158.5
05/23/01	13:00:35	144.81	15.44	RUN 2	0.72	177.21	4.88	20.78	143.2	15.6	158.5
05/23/01	13:00:40	144.79	15.44	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	158.7
05/23/01	13:00:45	144.79	15.44	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	158.7
05/23/01	13:00:50	144.98	15.44	RUN 2	0.72	177.21	4.86	20.76	143.8	15.6	159.0
05/23/01	13:00:55	144.79	15.44	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	158.7
05/23/01	13:01:00	144.79	15.44	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	158.7
05/23/01	13:01:05	144.98	15.47	RUN 2	0.72	177.21	4.86	20.76	143.6	15.6	159.9
05/23/01	13:01:10	144.79	15.47	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	159.7
05/23/01	13:01:15	144.98	15.47	RUN 2	0.72	177.21	4.86	20.76	143.6	15.6	159.9
05/23/01	13:01:20	144.79	15.44	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	158.7
05/23/01	13:01:25	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:01:30	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:01:35	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:01:40	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:01:45	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:01:50	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:01:55	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:02:00	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:05	144.23	15.47	RUN 2	0.72	177.21	4.86	20.76	142.9	15.6	159.1
05/23/01	13:02:10	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:15	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:20	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:02:25	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:02:30	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:35	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:40	144.42	15.47	RUN 2	0.72	177.21	4.86	20.76	143.1	15.6	159.3
05/23/01	13:02:45	144.23	15.47	RUN 2	0.72	177.21	4.86	20.76	142.9	15.6	159.1
05/23/01	13:02:50	144.23	15.47	RUN 2	0.72	177.21	4.86	20.76	142.9	15.6	159.1
05/23/01	13:02:55	144.79	15.47	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	159.7
05/23/01	13:03:00	144.79	15.47	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	159.7
05/23/01	13:03:05	144.79	15.47	RUN 2	0.72	177.21	4.86	20.76	143.4	15.6	159.7
05/23/01	13:03:10	144.98	15.47	RUN 2	0.72	177.21	4.86	20.76	143.6	15.6	159.9
05/23/01	13:03:15	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:03:20	144.61	15.47	RUN 2	0.72	177.21	4.86	20.76	143.2	15.6	159.5
05/23/01	13:03:25	144.23	15.47	RUN 2	0.72	177.21	4.86	20.76	142.9	15.6	159.1
05/23/01	13:03:30	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:03:35	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:03:40	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:03:45	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:03:50	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:03:55	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.3	15.6	158.4
05/23/01	13:04:00	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.3	15.6	158.4
05/23/01	13:04:05	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.5	15.6	158.7
05/23/01	13:04:10	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.3	15.6	158.4
05/23/01	13:04:15	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:04:20	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:04:25	144.04	15.47	RUN 2	0.72	177.21	4.86	20.76	142.7	15.6	158.9
05/23/01	13:04:30	143.09	15.47	RUN 2	0.72	177.21	4.86	20.76	141.7	15.6	157.8
05/23/01	13:04:35	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.3	15.6	158.4
05/23/01	13:04:40	143.85	15.47	RUN 2	0.72	177.21	4.86	20.76	142.5	15.6	158.7
05/23/01	13:04:45	144.23	15.47	RUN 2	0.72	177.21	4.86	20.76	142.9	15.6	159.1
05/23/01	13:04:50	143.66	15.47	RUN 2	0.72	177.21	4.86	20.76	142.3	15.6	158.4
05/23/01	13:04:55	143.09	15.47	RUN 2	0.72	177.21	4.86	20.76	141.7	15.6	157.8
05/23/01	13:05:00	143.28	15.47	RUN 2	0.72	177.21	4.86	20.76	141.9	15.6	158.0
05/23/01	13:05:05	143.85	15.47	RUN 2	0.72	177.21	4.86	20.76	142.5	15.6	158.7





JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	O <sub>2</sub> %	COMMENTS	NOx O Response	NOx 175.7	CO 4.87 RESPONSE	O <sub>2</sub> 20.9	CORRECTED NOx, ppm	CORRECTED O <sub>2</sub> , %	NOx CORRECTED TO 15% O <sub>2</sub>
		143.74	15.47	RUN 2 Average					142.4	15.6	158.7
05/23/01	13:20:00	140.05	15.56	STANDBY							
05/23/01	13:20:05	139.67	15.59	STANDBY							
05/23/01	13:20:10	139.67	15.62	STANDBY							
05/23/01	13:20:15	141.57	15.62	STANDBY							
05/23/01	13:20:20	142.52	15.59	STANDBY							
05/23/01	13:20:25	142.71	15.56	STANDBY							
05/23/01	13:20:30	142.33	15.56	STANDBY							
05/23/01	13:20:35	141.57	15.56	STANDBY							
05/23/01	13:20:40	141.19	15.56	STANDBY							
05/23/01	13:20:45	140.81	15.56	STANDBY							
05/23/01	13:20:50	138.54	15.59	STANDBY							
05/23/01	13:20:55	139.30	15.62	STANDBY							
05/23/01	13:21:00	139.67	15.66	STANDBY							
05/23/01	13:21:05	138.73	15.66	STANDBY							
05/23/01	13:21:10	138.16	15.66	STANDBY							
05/23/01	13:21:15	139.86	15.69	STANDBY							
05/23/01	13:21:20	141.57	15.66	STANDBY							
05/23/01	13:21:25	141.95	15.59	STANDBY							
05/23/01	13:21:30	142.52	15.59	STANDBY							
05/23/01	13:21:35	143.28	15.56	STANDBY							
05/23/01	13:21:40	142.52	15.56	STANDBY							
05/23/01	13:21:45	142.52	15.56	STANDBY							
05/23/01	13:21:50	142.52	16.53	STANDBY							
05/23/01	13:21:55	143.09	15.53	STANDBY							
05/23/01	13:22:00	143.09	15.53	STANDBY							
05/23/01	13:22:05	141.57	15.53	STANDBY							
05/23/01	13:22:10	140.05	15.59	STANDBY							
05/23/01	13:22:15	141.76	15.59	STANDBY							
05/23/01	13:22:20	142.33	15.56	STANDBY							
05/23/01	13:22:25	141.57	15.56	STANDBY							
05/23/01	13:22:30	140.81	15.59	STANDBY							
05/23/01	13:22:35	142.14	15.59	STANDBY							
05/23/01	13:22:40	142.71	15.56	STANDBY							
05/23/01	13:22:45	143.09	15.56	STANDBY							
05/23/01	13:22:50	142.90	15.56	STANDBY							
05/23/01	13:22:55	143.09	15.53	STANDBY							
05/23/01	13:23:00	142.90	15.53	STANDBY							
05/23/01	13:23:05	140.81	15.53	STANDBY							
05/23/01	13:23:10	140.82	15.59	STANDBY							
05/23/01	13:23:15	141.00	15.59	STANDBY							
05/23/01	13:23:20	142.33	15.59	STANDBY							
05/23/01	13:23:25	142.90	15.56	STANDBY							
05/23/01	13:23:30	143.09	15.56	STANDBY							
05/23/01	13:23:35	143.47	15.50	STANDBY							
05/23/01	13:23:40	143.09	15.53	STANDBY							
05/23/01	13:23:45	141.95	15.53	STANDBY							
05/23/01	13:23:50	140.62	15.50	STANDBY							
05/23/01	13:23:55	140.05	15.47	STANDBY							
05/23/01	13:24:00	140.05	15.44	STANDBY							
05/23/01	13:24:05	140.05	15.44	STANDBY							
05/23/01	13:24:10	116.54	15.41	STANDBY							
05/23/01	13:24:15	76.14	16.25	STANDBY							
05/23/01	13:24:20	107.24	17.94	STANDBY							
05/23/01	13:24:25	143.09	19.07	STANDBY							
05/23/01	13:24:30	162.43	19.76	STANDBY							
05/23/01	13:24:35	170.59	20.14	STANDBY							
05/23/01	13:24:40	174.00	20.36	STANDBY							
05/23/01	13:24:45	175.14	20.51	STANDBY							
05/23/01	13:24:50	175.71	20.61	STANDBY							
05/23/01	13:24:55	175.90	20.67	STANDBY							
		142.52	16.15	STANDBY Average							
05/23/01	13:25:00	176.09	20.70	175.7 NOX, 20.9 O2							
05/23/01	13:25:05	176.47	20.73	175.7 NOX, 20.9 O2							
05/23/01	13:25:10	176.66	20.73	175.7 NOX, 20.9 O2							
05/23/01	13:25:15	176.66	20.73	175.7 NOX, 20.9 O2							
05/23/01	13:25:20	176.66	20.76	175.7 NOX, 20.9 O2							
05/23/01	13:25:25	176.66	20.76	175.7 NOX, 20.9 O2							
05/23/01	13:25:30	177.03	20.76	175.7 NOX, 20.9 O2							
05/23/01	13:25:35	176.64	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:25:40	176.64	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:25:45	176.64	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:25:50	177.22	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:25:55	177.03	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:00	177.22	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:05	177.22	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:10	177.41	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:15	177.22	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:20	177.22	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:25	177.03	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:30	177.41	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:35	177.41	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:40	177.60	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:45	177.60	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:50	177.60	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:26:55	177.41	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:27:00	177.60	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:27:05	177.60	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:27:10	177.60	20.80	175.7 NOX, 20.9 O2							

**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS***

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	13:27:15	177.79	20.80	175.7 NOX, 20.9 O2							
05/23/01	13:27:20	177.98	20.80	175.7 NOX, 20.9 O2							
		177.17	20.78	175.7 NOX, 20.9 O2 Average							
05/23/01	13:27:25	177.60	20.83	STANDBY							
05/23/01	13:27:30	152.57	20.80	STANDBY							
05/23/01	13:27:35	63.06	20.83	STANDBY							
05/23/01	13:27:40	19.82	20.80	STANDBY							
05/23/01	13:27:45	7.11	20.20	STANDBY							
05/23/01	13:27:50	3.32	16.00	STANDBY							
05/23/01	13:27:55	2.18	11.61	STANDBY							
05/23/01	13:28:00	1.61	8.92	STANDBY							
05/23/01	13:28:05	1.42	7.38	STANDBY							
05/23/01	13:28:10	1.23	6.47	STANDBY							
05/23/01	13:28:15	1.04	5.91	STANDBY							
05/23/01	13:28:20	1.04	5.57	STANDBY							
05/23/01	13:28:25	1.04	5.35	STANDBY							
05/23/01	13:28:30	0.85	5.19	STANDBY							
05/23/01	13:28:35	0.66	5.10	STANDBY							
05/23/01	13:28:40	0.66	5.03	STANDBY							
05/23/01	13:28:45	0.66	4.97	STANDBY							
05/23/01	13:28:50	0.66	4.94	STANDBY							
05/23/01	13:28:55	0.66	4.91	STANDBY							
05/23/01	13:29:00	0.85	4.91	STANDBY							
		21.90	10.28	STANDBY Average							
05/23/01	13:29:05	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	13:29:10	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	13:29:15	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	13:29:20	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	13:29:25	0.66	4.81	4.97 % O2, 0 NOX							
		0.66	4.85	4.97 % O2, 0 NOX Average							
05/23/01	13:29:30	13.94	4.91	STANDBY							
05/23/01	13:29:35	106.68	6.57	STANDBY							
05/23/01	13:29:40	139.48	9.67	STANDBY							
05/23/01	13:29:45	143.47	11.99	STANDBY							
05/23/01	13:29:50	144.42	13.37	STANDBY							
05/23/01	13:29:55	144.23	14.18	STANDBY							
		115.37	10.11	STANDBY Average							
05/23/01	13:30:00	144.42	14.65	RUN 3	0.66	177.27	4.85	20.82	143.0	14.8	137.2
05/23/01	13:30:05	144.42	14.97	RUN 3	0.66	177.27	4.85	20.82	143.0	15.1	144.5
05/23/01	13:30:10	144.79	15.12	RUN 3	0.66	177.27	4.85	20.82	143.4	15.2	148.9
05/23/01	13:30:15	144.98	15.25	RUN 3	0.66	177.27	4.85	20.82	143.6	15.3	152.5
05/23/01	13:30:20	144.79	15.34	RUN 3	0.66	177.27	4.85	20.82	143.4	15.4	154.9
05/23/01	13:30:25	143.66	15.37	RUN 3	0.66	177.27	4.85	20.82	142.3	15.5	154.6
05/23/01	13:30:30	142.52	15.44	RUN 3	0.66	177.27	4.85	20.82	141.1	15.5	155.1
05/23/01	13:30:35	143.85	15.47	RUN 3	0.66	177.27	4.85	20.82	142.5	15.6	157.5
05/23/01	13:30:40	144.23	15.47	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	157.9
05/23/01	13:30:45	144.23	15.47	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	157.9
05/23/01	13:30:50	144.42	15.47	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	158.1
05/23/01	13:30:55	144.23	15.47	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	157.9
05/23/01	13:31:00	143.28	15.50	RUN 3	0.66	177.27	4.85	20.82	141.9	15.6	157.8
05/23/01	13:31:05	141.95	15.53	RUN 3	0.66	177.27	4.85	20.82	140.6	15.6	157.2
05/23/01	13:31:10	142.90	15.56	RUN 3	0.66	177.27	4.85	20.82	141.5	15.7	159.2
05/23/01	13:31:15	143.09	15.56	RUN 3	0.66	177.27	4.85	20.82	141.7	15.7	159.4
05/23/01	13:31:20	141.76	15.56	RUN 3	0.66	177.27	4.85	20.82	140.4	15.7	158.0
05/23/01	13:31:25	143.28	15.59	RUN 3	0.66	177.27	4.85	20.82	141.9	15.7	160.6
05/23/01	13:31:30	143.09	15.56	RUN 3	0.66	177.27	4.85	20.82	141.7	15.7	159.4
05/23/01	13:31:35	143.28	15.56	RUN 3	0.66	177.27	4.85	20.82	141.9	15.7	159.7
05/23/01	13:31:40	143.66	15.56	RUN 3	0.66	177.27	4.85	20.82	142.3	15.7	160.1
05/23/01	13:31:45	144.04	15.56	RUN 3	0.66	177.27	4.85	20.82	142.6	15.7	160.5
05/23/01	13:31:50	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:31:55	143.85	15.53	RUN 3	0.66	177.27	4.85	20.82	142.5	15.6	159.3
05/23/01	13:32:00	143.66	15.53	RUN 3	0.66	177.27	4.85	20.82	142.3	15.6	159.1
05/23/01	13:32:05	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:32:10	143.66	15.53	RUN 3	0.66	177.27	4.85	20.82	142.3	15.6	159.1
05/23/01	13:32:15	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:32:20	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:32:25	143.85	15.53	RUN 3	0.66	177.27	4.85	20.82	142.5	15.6	159.3
05/23/01	13:32:30	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:32:35	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:32:40	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:32:45	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:32:50	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0
05/23/01	13:32:55	143.85	15.53	RUN 3	0.66	177.27	4.85	20.82	142.5	15.6	159.3
05/23/01	13:33:00	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:33:05	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:33:10	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:33:15	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:33:20	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:33:25	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0
05/23/01	13:33:30	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:33:35	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0
05/23/01	13:33:40	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:33:45	144.23	15.53	RUN 3	0.66	177.27	4.85	20.82	142.8	15.6	159.7
05/23/01	13:33:50	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0
05/23/01	13:33:55	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0
05/23/01	13:34:00	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:34:05	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:34:10	144.04	15.53	RUN 3	0.66	177.27	4.85	20.82	142.6	15.6	159.5
05/23/01	13:34:15	144.42	15.53	RUN 3	0.66	177.27	4.85	20.82	143.0	15.6	160.0







**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	13:49:10	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:49:15	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.6	15.6	160.8
05/23/01	13:49:20	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
05/23/01	13:49:25	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:49:30	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:49:35	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
05/23/01	13:49:40	144.98	15.53	RUN 3	0.66	177.27	4.85	20.82	143.6	15.6	160.6
05/23/01	13:49:45	144.79	15.53	RUN 3	0.66	177.27	4.85	20.82	143.4	15.6	160.4
05/23/01	13:49:50	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
05/23/01	13:49:55	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
05/23/01	13:50:00	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:05	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
05/23/01	13:50:10	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:15	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:20	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.8	160.8
05/23/01	13:50:25	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:30	145.55	15.53	RUN 3	0.66	177.27	4.85	20.82	144.2	15.6	161.2
05/23/01	13:50:35	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:40	145.36	15.53	RUN 3	0.66	177.27	4.85	20.82	144.0	15.6	161.0
05/23/01	13:50:45	144.79	15.53	RUN 3	0.66	177.27	4.85	20.82	143.4	15.6	160.4
05/23/01	13:50:50	144.79	15.53	RUN 3	0.66	177.27	4.85	20.82	143.4	15.8	160.4
05/23/01	13:50:55	145.17	15.53	RUN 3	0.66	177.27	4.85	20.82	143.8	15.6	160.8
		144.50	15.52	<b>RUN 3 Average</b>					143.1	15.6	159.8
05/23/01	13:51:00	145.36	15.53	STANDBY							
05/23/01	13:51:06	145.17	15.53	STANDBY							
05/23/01	13:51:10	145.17	15.53	STANDBY							
05/23/01	13:51:15	144.98	15.53	STANDBY							
05/23/01	13:51:20	144.98	15.53	STANDBY							
05/23/01	13:51:25	144.98	15.53	STANDBY							
05/23/01	13:51:30	144.98	15.53	STANDBY							
05/23/01	13:51:35	145.36	15.53	STANDBY							
05/23/01	13:51:40	145.36	15.53	STANDBY							
05/23/01	13:51:45	145.17	15.53	STANDBY							
05/23/01	13:51:50	145.17	15.53	STANDBY							
05/23/01	13:51:55	144.98	15.53	STANDBY							
05/23/01	13:52:00	145.17	15.53	STANDBY							
05/23/01	13:52:05	145.17	15.53	STANDBY							
05/23/01	13:52:10	145.36	15.53	STANDBY							
05/23/01	13:52:15	145.36	15.53	STANDBY							
05/23/01	13:52:20	145.36	15.53	STANDBY							
05/23/01	13:52:25	145.36	15.53	STANDBY							
05/23/01	13:52:30	145.17	15.53	STANDBY							
05/23/01	13:52:35	145.17	15.53	STANDBY							
05/23/01	13:52:40	145.36	15.53	STANDBY							
05/23/01	13:52:45	145.36	15.53	STANDBY							
05/23/01	13:52:50	145.17	15.53	STANDBY							
05/23/01	13:52:55	145.36	15.53	STANDBY							
05/23/01	13:53:00	144.98	15.53	STANDBY							
05/23/01	13:53:06	145.36	15.53	STANDBY							
05/23/01	13:53:10	144.04	15.53	STANDBY							
05/23/01	13:53:15	143.28	15.50	STANDBY							
05/23/01	13:53:20	142.52	15.47	STANDBY							
05/23/01	13:53:25	142.33	15.44	STANDBY							
05/23/01	13:53:30	128.67	15.37	STANDBY							
05/23/01	13:53:35	80.50	14.65	STANDBY							
05/23/01	13:53:40	80.88	12.65	STANDBY							
05/23/01	13:53:45	131.14	9.67	STANDBY							
05/23/01	13:53:50	158.45	6.63	STANDBY							
05/23/01	13:53:55	169.26	4.25	STANDBY							
05/23/01	13:54:00	173.24	2.68	STANDBY							
05/23/01	13:54:05	174.95	1.68	STANDBY							
05/23/01	13:54:10	175.52	3.09	STANDBY							
05/23/01	13:54:15	175.90	8.98	STANDBY							
05/23/01	13:54:20	176.09	13.78	STANDBY							
05/23/01	13:54:25	176.28	16.63	STANDBY							
05/23/01	13:54:30	176.28	18.23	STANDBY							
05/23/01	13:54:35	176.66	19.17	STANDBY							
05/23/01	13:54:40	176.66	19.73	STANDBY							
05/23/01	13:54:45	176.84	20.07	STANDBY							
05/23/01	13:54:50	176.66	20.29	STANDBY							
05/23/01	13:54:55	176.84	20.45	STANDBY							
05/23/01	13:55:00	177.03	20.54	STANDBY							
05/23/01	13:55:05	177.22	20.61	STANDBY							
05/23/01	13:55:10	177.03	20.67	STANDBY							
		151.76	14.81	<b>STANDBY Average</b>							
05/23/01	13:55:15	177.03	20.70	175.7 NOX, 20.9 O2							
05/23/01	13:55:20	177.22	20.73	175.7 NOX, 20.9 O2							
05/23/01	13:55:25	177.03	20.83	175.7 NOX, 20.9 O2							
05/23/01	13:55:30	177.22	20.86	175.7 NOX, 20.9 O2							
05/23/01	13:55:35	177.03	20.66	175.7 NOX, 20.9 O2							
05/23/01	13:55:40	177.41	20.66	175.7 NOX, 20.9 O2							
05/23/01	13:55:45	177.41	20.86	175.7 NOX, 20.9 O2							
05/23/01	13:55:50	177.41	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:55:55	177.22	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:56:00	177.41	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:56:05	177.41	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:56:10	177.60	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:56:15	177.60	20.89	175.7 NOX, 20.9 O2							
05/23/01	13:56:20	177.79	20.89	175.7 NOX, 20.9 O2							

### JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	O <sub>2</sub> %	COMMENTS	Nox 0 Response	Nox 175.7	O <sub>2</sub> 4.97 RESPONSE	O <sub>2</sub> 20.9	CORRECTED NOx, ppm	CORRECTED O <sub>2</sub> %	Nox CORRECTED TO 15% O <sub>2</sub>
05/23/01	13:56:25	177.60	20.92	175.7 NOX, 20.9 O <sub>2</sub>							
		177.36	20.86	175.7 NOX, 20.9 O <sub>2</sub> Average							
05/23/01	13:56:30	177.98	20.92	STANDBY							
05/23/01	13:56:35	159.02	20.92	STANDBY							
05/23/01	13:56:40	72.54	20.92	STANDBY							
05/23/01	13:56:45	24.37	20.92	STANDBY							
05/23/01	13:56:50	9.39	20.92	STANDBY							
05/23/01	13:56:55	4.27	19.51	STANDBY							
05/23/01	13:57:00	2.56	14.72	STANDBY							
05/23/01	13:57:05	1.80	10.80	STANDBY							
05/23/01	13:57:10	1.42	8.48	STANDBY							
05/23/01	13:57:15	1.23	7.13	STANDBY							
05/23/01	13:57:20	1.23	6.32	STANDBY							
05/23/01	13:57:25	1.04	5.85	STANDBY							
05/23/01	13:57:30	1.04	5.53	STANDBY							
05/23/01	13:57:35	0.66	5.35	STANDBY							
05/23/01	13:57:40	0.66	5.19	STANDBY							
05/23/01	13:57:45	0.85	5.10	STANDBY							
05/23/01	13:57:50	2.18	6.03	STANDBY							
05/23/01	13:57:55	8.82	4.97	STANDBY							
05/23/01	13:58:00	7.30	4.85	STANDBY							
05/23/01	13:58:05	2.94	4.81	STANDBY							
05/23/01	13:58:10	1.42	4.81	STANDBY							
05/23/01	13:58:15	0.85	4.81	STANDBY							
		21.96	10.36	STANDBY Average							
05/23/01	13:58:20	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:25	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:30	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:35	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:40	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:45	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:50	0.66	4.85	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:58:55	0.66	4.81	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:59:00	0.66	4.81	4.97 % O <sub>2</sub> , 0 NOX							
05/23/01	13:59:05	0.66	4.81	4.97 % O <sub>2</sub> , 0 NOX							
		0.66	4.84	4.97 % O <sub>2</sub> , 0 NOX Average							
05/23/01	13:59:10	1.04	4.81	STANDBY							
05/23/01	13:59:15	66.09	5.50	STANDBY							
05/23/01	13:59:20	133.42	8.35	STANDBY							
05/23/01	13:59:25	143.66	11.14	STANDBY							
05/23/01	13:59:30	144.98	12.90	STANDBY							
05/23/01	13:59:35	145.36	13.93	STANDBY							
05/23/01	13:59:40	145.55	14.56	STANDBY							
05/23/01	13:59:45	145.55	14.90	STANDBY							
05/23/01	13:59:50	148.12	15.12	STANDBY							
05/23/01	13:59:55	145.74	15.28	STANDBY							
		121.75	11.65	STANDBY Average							
05/23/01	14:00:00	145.55	15.37	RUN 4	0.60	176.98	4.83	20.81	144.4	15.5	157.3
05/23/01	14:00:05	145.55	15.44	RUN 4	0.60	176.98	4.83	20.81	144.4	15.5	159.1
05/23/01	14:00:10	145.55	15.47	RUN 4	0.60	176.98	4.83	20.81	144.4	15.6	160.1
05/23/01	14:00:15	145.36	15.50	RUN 4	0.60	176.98	4.83	20.81	144.2	15.8	160.8
05/23/01	14:00:20	145.74	15.53	RUN 4	0.60	176.98	4.83	20.81	144.6	15.6	162.2
05/23/01	14:00:25	146.12	15.56	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	163.6
05/23/01	14:00:30	146.12	15.56	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	163.6
05/23/01	14:00:35	148.12	15.56	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	163.6
05/23/01	14:00:40	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:00:45	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:00:50	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:00:55	145.93	15.59	RUN 4	0.60	176.98	4.83	20.81	144.8	15.7	164.4
05/23/01	14:01:00	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:01:05	145.93	15.59	RUN 4	0.80	176.98	4.83	20.81	144.8	15.7	164.4
05/23/01	14:01:10	145.93	15.59	RUN 4	0.60	176.98	4.83	20.61	144.8	15.7	164.4
05/23/01	14:01:15	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:01:20	145.93	15.59	RUN 4	0.60	176.98	4.83	20.81	144.8	15.7	164.4
05/23/01	14:01:25	145.93	15.59	RUN 4	0.60	176.98	4.83	20.81	144.8	15.7	164.4
05/23/01	14:01:30	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:01:35	146.31	15.59	RUN 4	0.60	176.98	4.83	20.81	145.2	15.7	164.8
05/23/01	14:01:40	145.93	15.59	RUN 4	0.60	176.98	4.83	20.81	144.8	15.7	164.4
05/23/01	14:01:45	145.74	15.62	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	165.1
05/23/01	14:01:50	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:01:55	146.31	15.62	RUN 4	0.60	176.98	4.83	20.81	145.2	15.7	165.8
05/23/01	14:02:00	146.31	15.59	RUN 4	0.60	176.98	4.83	20.81	145.2	15.7	164.8
05/23/01	14:02:05	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:02:10	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:02:15	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:02:20	145.93	15.62	RUN 4	0.60	176.98	4.83	20.81	144.8	15.7	165.3
05/23/01	14:02:25	146.31	15.62	RUN 4	0.60	176.98	4.83	20.81	145.2	15.7	165.8
05/23/01	14:02:30	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:02:35	146.12	15.59	RUN 4	0.60	176.98	4.83	20.81	145.0	15.7	164.6
05/23/01	14:02:40	144.98	15.62	RUN 4	0.60	176.98	4.83	20.81	143.8	15.7	164.3
05/23/01	14:02:45	145.36	15.62	RUN 4	0.60	176.98	4.83	20.81	144.2	15.7	164.7
05/23/01	14:02:50	145.55	15.62	RUN 4	0.60	176.98	4.83	20.81	144.4	15.7	164.9
05/23/01	14:02:55	145.74	15.62	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	165.1
05/23/01	14:03:00	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:03:05	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:03:10	145.55	15.59	RUN 4	0.60	176.98	4.63	20.81	144.4	15.7	163.9
05/23/01	14:03:15	145.36	15.59	RUN 4	0.80	176.98	4.83	20.81	144.2	15.7	163.7
05/23/01	14:03:20	145.55	15.59	RUN 4	0.80	176.98	4.83	20.81	144.4	15.7	163.9
05/23/01	14:03:25	145.55	15.59	RUN 4	0.60	176.98	4.83	20.81	144.4	15.7	163.9





JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx 0 Response	NOx 175.7	O2 4.87 RESPONSE	O2 20.8	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	14:18:20	144.42	15.59	RUN 4	0.60	178.98	4.83	20.81	143.3	15.7	162.6
05/23/01	14:18:25	144.04	15.59	RUN 4	0.60	176.98	4.83	20.81	142.9	15.7	162.2
05/23/01	14:18:30	143.66	15.59	RUN 4	0.60	176.98	4.83	20.81	142.5	15.7	161.8
05/23/01	14:18:35	143.47	15.59	RUN 4	0.60	178.98	4.83	20.81	142.3	15.7	161.6
05/23/01	14:18:40	142.14	15.59	RUN 4	0.60	176.98	4.83	20.81	141.0	15.7	160.1
05/23/01	14:18:45	142.52	15.62	RUN 4	0.60	176.98	4.83	20.81	141.4	15.7	161.5
05/23/01	14:18:50	144.04	15.62	RUN 4	0.60	176.98	4.83	20.81	142.9	15.7	163.2
05/23/01	14:18:55	144.42	15.59	RUN 4	0.60	176.98	4.83	20.81	143.3	15.7	162.6
05/23/01	14:19:00	144.23	15.59	RUN 4	0.60	176.98	4.83	20.81	143.1	15.7	162.4
05/23/01	14:19:05	144.61	15.59	RUN 4	0.60	176.98	4.83	20.81	143.5	15.7	162.9
05/23/01	14:19:10	144.23	15.59	RUN 4	0.60	176.98	4.83	20.81	143.1	15.7	162.4
05/23/01	14:19:15	143.66	15.56	RUN 4	0.60	176.98	4.83	20.81	142.5	15.7	160.8
05/23/01	14:19:20	142.90	15.59	RUN 4	0.60	176.98	4.83	20.81	141.8	15.7	160.3
05/23/01	14:19:25	144.04	15.59	RUN 4	0.60	176.98	4.83	20.81	142.9	15.7	162.2
05/23/01	14:19:30	143.09	15.59	RUN 4	0.60	176.98	4.83	20.81	141.9	15.7	161.1
05/23/01	14:19:35	143.47	15.62	RUN 4	0.60	178.98	4.83	20.81	142.3	15.7	162.5
05/23/01	14:19:40	144.79	15.62	RUN 4	0.60	176.98	4.83	20.81	143.6	15.7	164.0
05/23/01	14:19:45	144.04	15.62	RUN 4	0.60	176.98	4.83	20.81	142.9	15.7	163.2
05/23/01	14:19:50	143.66	15.62	RUN 4	0.60	176.98	4.83	20.81	142.5	15.7	162.7
05/23/01	14:19:55	142.90	15.62	RUN 4	0.60	176.98	4.83	20.81	141.8	15.7	161.9
05/23/01	14:20:00	144.81	15.66	RUN 4	0.60	178.98	4.83	20.81	143.5	15.8	164.8
05/23/01	14:20:05	145.55	15.62	RUN 4	0.60	176.98	4.83	20.81	144.4	15.7	164.9
05/23/01	14:20:10	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:20:15	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:20:20	145.17	15.59	RUN 4	0.60	176.98	4.83	20.81	144.0	15.7	163.5
05/23/01	14:20:25	145.74	15.59	RUN 4	0.60	176.98	4.83	20.81	144.6	15.7	164.1
05/23/01	14:20:30	145.55	15.59	RUN 4	0.60	176.98	4.83	20.81	144.4	15.7	163.9
05/23/01	14:20:35	145.55	15.56	RUN 4	0.60	176.98	4.83	20.81	144.4	15.7	163.0
05/23/01	14:20:40	144.98	15.59	RUN 4	0.60	176.98	4.83	20.81	143.8	15.7	163.3
05/23/01	14:20:45	144.98	15.59	RUN 4	0.60	176.98	4.83	20.81	143.8	15.7	163.3
05/23/01	14:20:50	144.98	15.59	RUN 4	0.60	176.98	4.83	20.81	143.8	15.7	163.3
05/23/01	14:20:55	145.36	15.59	RUN 4	0.60	176.98	4.83	20.81	144.2	15.7	163.7
		145.17	15.56	RUN 4 Average					144.0	15.7	162.5
05/23/01	14:21:00	145.17	15.59	STANDBY							
05/23/01	14:21:05	145.17	15.59	STANDBY							
05/23/01	14:21:10	144.42	15.59	STANDBY							
05/23/01	14:21:15	145.17	15.59	STANDBY							
05/23/01	14:21:20	145.55	15.59	STANDBY							
05/23/01	14:21:25	145.93	15.59	STANDBY							
05/23/01	14:21:30	145.36	15.59	STANDBY							
05/23/01	14:21:35	145.74	15.59	STANDBY							
05/23/01	14:21:40	146.12	15.59	STANDBY							
05/23/01	14:21:45	146.12	15.56	STANDBY							
05/23/01	14:21:50	146.12	15.56	STANDBY							
05/23/01	14:21:55	146.12	15.56	STANDBY							
05/23/01	14:22:00	146.12	15.56	STANDBY							
05/23/01	14:22:05	146.12	15.56	STANDBY							
05/23/01	14:22:10	146.31	15.56	STANDBY							
05/23/01	14:22:15	146.50	15.56	STANDBY							
05/23/01	14:22:20	146.50	15.56	STANDBY							
05/23/01	14:22:25	146.31	15.56	STANDBY							
05/23/01	14:22:30	146.12	15.56	STANDBY							
05/23/01	14:22:35	146.50	15.56	STANDBY							
05/23/01	14:22:40	146.50	15.56	STANDBY							
05/23/01	14:22:45	145.74	15.56	STANDBY							
05/23/01	14:22:50	145.36	15.56	STANDBY							
05/23/01	14:22:55	136.64	15.53	STANDBY							
05/23/01	14:23:00	72.16	14.75	STANDBY							
05/23/01	14:23:05	25.13	12.43	STANDBY							
05/23/01	14:23:10	8.25	9.89	STANDBY							
05/23/01	14:23:15	3.32	8.04	STANDBY							
05/23/01	14:23:20	1.80	6.65	STANDBY							
05/23/01	14:23:25	1.23	6.13	STANDBY							
05/23/01	14:23:30	1.04	5.66	STANDBY							
05/23/01	14:23:35	0.85	5.41	STANDBY							
05/23/01	14:23:40	0.85	5.22	STANDBY							
05/23/01	14:23:45	0.85	5.10	STANDBY							
05/23/01	14:23:50	0.66	5.03	STANDBY							
05/23/01	14:23:55	0.66	4.97	STANDBY							
05/23/01	14:24:00	0.66	4.94	STANDBY							
05/23/01	14:24:05	0.66	4.91	STANDBY							
05/23/01	14:24:10	0.66	4.91	STANDBY							
		92.58	12.26	STANDBY Average							
05/23/01	14:24:15	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	14:24:20	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	14:24:25	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:24:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:24:35	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:24:40	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	14:24:45	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:24:50	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:24:55	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:00	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:05	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:10	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:15	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:20	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:25	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:30	0.47	4.78	4.97 % O2, 0 NOX							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	14:25:35	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:40	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:45	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	14:25:50	0.47	4.78	4.97 % O2, 0 NOX							
05/23/01	14:25:55	0.47	4.78	4.97 % O2, 0 NOX							
05/23/01	14:26:00	0.47	4.78	4.97 % O2, 0 NOX							
		0.53	4.82	4.97 % O2, 0 NOX Average							
05/23/01	14:26:05	0.47	5.57	STANDBY							
05/23/01	14:26:10	3.32	9.92	STANDBY							
05/23/01	14:26:15	53.01	14.25	STANDBY							
05/23/01	14:26:20	123.36	16.85	STANDBY							
05/23/01	14:26:25	156.93	18.35	STANDBY							
05/23/01	14:26:30	168.31	19.23	STANDBY							
05/23/01	14:26:35	172.48	19.73	STANDBY							
05/23/01	14:26:40	174.19	20.04	STANDBY							
05/23/01	14:26:45	174.95	20.26	STANDBY							
05/23/01	14:26:50	175.33	20.39	STANDBY							
05/23/01	14:26:55	175.52	20.48	STANDBY							
05/23/01	14:27:00	175.71	20.58	STANDBY							
05/23/01	14:27:06	176.09	20.61	STANDBY							
05/23/01	14:27:10	175.90	20.64	STANDBY							
05/23/01	14:27:15	178.09	20.67	STANDBY							
05/23/01	14:27:20	176.09	20.70	STANDBY							
05/23/01	14:27:25	176.28	20.70	STANDBY							
		143.18	18.17	STANDBY Average							
05/23/01	14:27:30	178.47	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:27:35	178.47	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:27:40	176.66	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:27:45	178.66	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:27:50	176.47	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:27:55	176.66	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:28:00	178.47	20.73	175.7 NOX, 20.9 O2							
05/23/01	14:28:05	176.66	20.76	175.7 NOX, 20.9 O2							
05/23/01	14:28:10	176.66	20.76	175.7 NOX, 20.9 O2							
05/23/01	14:28:15	176.66	20.76	175.7 NOX, 20.9 O2							
05/23/01	14:28:20	176.66	20.80	175.7 NOX, 20.9 O2							
05/23/01	14:28:25	176.66	20.80	175.7 NOX, 20.9 O2							
		176.59	20.75	175.7 NOX, 20.9 O2 Average							
05/23/01	14:28:30	177.79	20.80	STANDBY							
05/23/01	14:28:35	176.09	20.83	STANDBY							
05/23/01	14:28:40	156.93	20.83	STANDBY							
05/23/01	14:28:45	149.16	20.86	STANDBY							
05/23/01	14:28:50	146.88	20.86	STANDBY							
05/23/01	14:28:55	146.50	20.86	STANDBY							
		158.89	20.84	STANDBY Average							
05/23/01	14:29:00	146.50	15.69	RUN 5	0.60	178.71	4.83	20.79	145.6	15.8	168.6
05/23/01	14:29:05	147.83	15.69	RUN 5	0.60	176.71	4.83	20.79	146.9	15.8	170.2
05/23/01	14:29:10	147.26	15.69	RUN 5	0.60	176.71	4.83	20.79	146.3	15.8	169.5
05/23/01	14:29:15	146.69	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:29:20	147.83	15.69	RUN 5	0.60	176.71	4.83	20.79	146.9	15.8	170.2
05/23/01	14:29:25	147.26	15.69	RUN 5	0.60	178.71	4.83	20.79	146.3	15.8	169.5
05/23/01	14:29:30	146.31	15.69	RUN 5	0.60	176.71	4.83	20.79	145.4	15.8	168.4
05/23/01	14:29:35	144.42	15.69	RUN 5	0.60	176.71	4.83	20.79	143.5	15.8	166.2
05/23/01	14:29:40	145.93	15.69	RUN 5	0.60	176.71	4.83	20.79	145.0	15.8	168.0
05/23/01	14:29:45	146.50	15.69	RUN 5	0.60	176.71	4.83	20.79	145.6	15.8	168.6
05/23/01	14:29:50	145.55	15.69	RUN 5	0.60	176.71	4.83	20.79	144.6	15.8	167.5
05/23/01	14:29:55	146.12	15.69	RUN 5	0.60	176.71	4.83	20.79	145.2	15.8	168.2
05/23/01	14:30:00	144.79	15.69	RUN 5	0.60	176.71	4.83	20.79	143.9	15.8	166.6
05/23/01	14:30:05	143.28	15.69	RUN 5	0.60	176.71	4.83	20.79	142.3	15.8	164.9
05/23/01	14:30:10	142.90	15.69	RUN 5	0.60	176.71	4.83	20.79	142.0	15.8	164.4
05/23/01	14:30:15	144.23	15.69	RUN 5	0.60	176.71	4.83	20.79	143.3	15.8	166.0
05/23/01	14:30:20	144.23	15.69	RUN 5	0.60	176.71	4.83	20.79	143.3	15.8	166.0
05/23/01	14:30:25	144.98	15.69	RUN 5	0.60	176.71	4.83	20.79	144.0	15.8	166.8
05/23/01	14:30:30	145.93	15.69	RUN 5	0.60	176.71	4.83	20.79	145.0	15.8	167.9
05/23/01	14:30:35	145.93	15.69	RUN 5	0.60	176.71	4.83	20.79	145.0	15.8	167.9
05/23/01	14:30:40	142.33	15.69	RUN 5	0.60	176.71	4.83	20.79	141.4	15.8	163.8
05/23/01	14:30:45	142.14	15.69	RUN 5	0.60	176.71	4.83	20.79	141.2	15.8	163.5
05/23/01	14:30:50	144.04	15.69	RUN 5	0.60	176.71	4.83	20.79	143.1	15.8	165.7
05/23/01	14:30:55	145.74	15.69	RUN 5	0.60	176.71	4.83	20.79	144.8	15.8	167.7
05/23/01	14:31:00	146.69	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:31:05	146.69	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:31:10	146.50	15.69	RUN 5	0.60	176.71	4.83	20.79	145.6	15.8	168.6
05/23/01	14:31:15	146.50	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.6
05/23/01	14:31:20	146.89	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:31:25	146.68	15.69	RUN 5	0.60	176.71	4.83	20.79	145.9	15.8	169.0
05/23/01	14:31:30	146.31	15.69	RUN 5	0.60	176.71	4.83	20.79	145.4	15.8	168.3
05/23/01	14:31:35	146.69	15.69	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:31:40	145.36	15.69	RUN 5	0.60	176.71	4.83	20.79	144.4	15.8	167.2
05/23/01	14:31:45	145.17	15.69	RUN 5	0.60	176.71	4.83	20.79	144.2	15.8	167.0
05/23/01	14:31:50	145.55	15.69	RUN 5	0.60	176.71	4.83	20.79	144.6	15.8	167.5
05/23/01	14:31:55	145.55	15.68	RUN 5	0.60	176.71	4.83	20.79	144.6	15.8	167.5
05/23/01	14:32:00	145.93	15.68	RUN 5	0.60	176.71	4.83	20.79	145.0	15.8	167.9
05/23/01	14:32:05	147.45	15.68	RUN 5	0.60	176.71	4.83	20.79	146.5	15.8	169.6
05/23/01	14:32:10	147.26	15.68	RUN 5	0.60	176.71	4.83	20.79	146.3	15.8	169.4
05/23/01	14:32:15	146.69	15.68	RUN 5	0.60	176.71	4.83	20.79	145.8	15.8	168.8
05/23/01	14:32:20	146.12	15.68	RUN 5	0.60	176.71	4.83	20.79	145.2	15.8	168.1
05/23/01	14:32:25	147.26	15.68	RUN 5	0.60	176.71	4.83	20.79	146.3	15.8	169.4
05/23/01	14:32:30	147.45	15.68	RUN 5	0.60	176.71	4.83	20.79	146.5	15.8	169.6
05/23/01	14:32:35	146.50	15.68	RUN 5	0.60	176.71	4.83	20.79	145.6	15.8	168.5







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	14:47:30	151.24	15.59	RUN 5	0.60	176.71	4.83	20.79	150.3	15.7	170.9
05/23/01	14:47:35	151.24	15.59	RUN 5	0.60	176.71	4.83	20.79	150.3	15.7	170.9
05/23/01	14:47:40	151.24	15.59	RUN 5	0.60	176.71	4.83	20.79	150.3	15.7	170.9
05/23/01	14:47:45	151.05	15.59	RUN 5	0.60	176.71	4.83	20.79	150.1	15.7	170.7
05/23/01	14:47:50	150.86	15.59	RUN 5	0.60	176.71	4.83	20.79	149.9	15.7	170.5
05/23/01	14:47:55	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:48:00	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:48:05	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:48:10	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:48:15	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:48:20	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:48:25	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:48:30	150.10	15.59	RUN 5	0.60	176.71	4.83	20.79	149.2	15.7	169.7
05/23/01	14:48:35	150.10	15.59	RUN 5	0.60	176.71	4.83	20.79	149.2	15.7	169.7
05/23/01	14:48:40	149.92	15.59	RUN 5	0.60	176.71	4.83	20.79	149.0	15.7	169.4
05/23/01	14:48:45	150.10	15.59	RUN 5	0.60	176.71	4.83	20.79	149.2	15.7	169.7
05/23/01	14:48:50	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:48:55	150.29	15.59	RUN 5	0.80	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:49:00	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:05	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:10	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:15	150.48	15.62	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	171.1
05/23/01	14:49:20	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:25	150.29	15.59	RUN 5	0.60	176.71	4.83	20.79	149.3	15.7	169.9
05/23/01	14:49:30	150.10	15.59	RUN 5	0.60	176.71	4.83	20.79	149.2	15.7	169.7
05/23/01	14:49:35	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:40	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:45	150.48	15.62	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	171.1
05/23/01	14:49:50	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
05/23/01	14:49:55	150.48	15.59	RUN 5	0.60	176.71	4.83	20.79	149.5	15.7	170.1
		147.60	15.64	RUN 5 Average					146.7	15.8	168.3
05/23/01	14:50:00	150.48	15.59	STANDBY							
05/23/01	14:50:05	150.67	15.59	STANDBY							
05/23/01	14:50:10	150.29	15.59	STANDBY							
05/23/01	14:50:15	150.29	15.59	STANDBY							
05/23/01	14:50:20	150.29	15.59	STANDBY							
05/23/01	14:50:25	150.48	15.59	STANDBY							
05/23/01	14:50:30	150.48	15.59	STANDBY							
05/23/01	14:50:35	150.67	15.59	STANDBY							
05/23/01	14:50:40	150.48	15.59	STANDBY							
05/23/01	14:50:45	150.67	15.59	STANDBY							
05/23/01	14:50:50	150.29	15.59	STANDBY							
05/23/01	14:50:55	150.29	15.59	STANDBY							
05/23/01	14:51:00	150.29	15.59	STANDBY							
05/23/01	14:51:05	149.92	15.59	STANDBY							
05/23/01	14:51:10	149.16	15.59	STANDBY							
05/23/01	14:51:15	147.83	15.59	STANDBY							
05/23/01	14:51:20	146.86	15.59	STANDBY							
05/23/01	14:51:25	144.98	15.59	STANDBY							
05/23/01	14:51:30	143.66	15.59	STANDBY							
05/23/01	14:51:35	143.09	15.59	STANDBY							
05/23/01	14:51:40	142.33	15.59	STANDBY							
05/23/01	14:51:45	141.95	15.59	STANDBY							
05/23/01	14:51:50	141.76	15.59	STANDBY							
05/23/01	14:51:55	141.76	15.59	STANDBY							
05/23/01	14:52:00	141.19	15.59	STANDBY							
05/23/01	14:52:05	141.19	15.59	STANDBY							
05/23/01	14:52:10	141.95	15.56	STANDBY							
05/23/01	14:52:15	142.33	15.56	STANDBY							
05/23/01	14:52:20	142.33	15.56	STANDBY							
05/23/01	14:52:25	142.52	15.59	STANDBY							
05/23/01	14:52:30	143.09	15.59	STANDBY							
05/23/01	14:52:35	143.09	15.59	STANDBY							
05/23/01	14:52:40	143.28	15.59	STANDBY							
05/23/01	14:52:45	143.09	15.59	STANDBY							
05/23/01	14:52:50	142.71	15.59	STANDBY							
05/23/01	14:52:55	142.71	15.59	STANDBY							
05/23/01	14:53:00	141.57	15.56	STANDBY							
05/23/01	14:53:05	141.38	15.59	STANDBY							
05/23/01	14:53:10	140.43	15.56	STANDBY							
05/23/01	14:53:15	139.48	15.56	STANDBY							
05/23/01	14:53:20	139.67	15.53	STANDBY							
05/23/01	14:53:25	141.19	15.75	STANDBY							
05/23/01	14:53:30	148.02	17.19	STANDBY							
05/23/01	14:53:35	158.07	18.66	STANDBY							
05/23/01	14:53:40	167.74	19.54	STANDBY							
05/23/01	14:53:45	172.29	20.04	STANDBY							
05/23/01	14:53:50	174.00	20.33	STANDBY							
05/23/01	14:53:55	174.76	20.51	STANDBY							
05/23/01	14:54:00	175.33	20.61	STANDBY							
05/23/01	14:54:05	175.52	20.70	STANDBY							
05/23/01	14:54:10	175.71	20.73	STANDBY							
05/23/01	14:54:15	175.71	20.73	STANDBY							
05/23/01	14:54:20	176.09	20.76	STANDBY							
05/23/01	14:54:25	176.09	20.80	STANDBY							
05/23/01	14:54:30	176.28	20.80	STANDBY							
05/23/01	14:54:35	176.28	20.83	STANDBY							
05/23/01	14:54:40	176.47	20.83	STANDBY							
		152.29	16.80	STANDBY Average							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 18% O2
05/23/01	14:54:45	176.28	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:54:50	176.47	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:54:55	176.47	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:00	176.66	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:05	176.66	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:10	176.66	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:15	176.66	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:20	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:25	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:30	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:35	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:40	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:45	176.84	20.86	175.7 NOX, 20.9 O2							
05/23/01	14:55:50	178.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:55:55	177.03	20.86	175.7 NOX, 20.9 O2							
05/23/01	14:56:00	177.03	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:56:05	176.84	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:56:10	177.03	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:56:15	177.22	20.86	175.7 NOX, 20.9 O2							
05/23/01	14:56:20	177.22	20.83	175.7 NOX, 20.9 O2							
05/23/01	14:56:25	177.22	20.83	175.7 NOX, 20.9 O2							
		178.83	20.83	175.7 NOX, 20.9 O2 Average							
05/23/01	14:56:30	176.66	20.66	STANDBY							
05/23/01	14:56:35	140.24	20.83	STANDBY							
05/23/01	14:56:40	64.95	20.83	STANDBY							
05/23/01	14:56:45	27.59	20.70	STANDBY							
05/23/01	14:56:50	17.73	17.54	STANDBY							
05/23/01	14:56:55	9.58	12.59	STANDBY							
05/23/01	14:57:00	4.65	9.42	STANDBY							
05/23/01	14:57:05	2.75	7.83	STANDBY							
05/23/01	14:57:10	1.99	6.60	STANDBY							
05/23/01	14:57:15	1.42	6.00	STANDBY							
05/23/01	14:57:20	1.23	5.63	STANDBY							
05/23/01	14:57:25	1.23	5.38	STANDBY							
05/23/01	14:57:30	1.04	5.22	STANDBY							
05/23/01	14:57:35	1.04	5.13	STANDBY							
05/23/01	14:57:40	1.04	5.06	STANDBY							
05/23/01	14:57:45	1.04	5.00	STANDBY							
05/23/01	14:57:50	0.85	4.94	STANDBY							
05/23/01	14:57:55	0.66	4.94	STANDBY							
05/23/01	14:58:00	0.85	4.91	STANDBY							
05/23/01	14:58:05	0.66	4.91	STANDBY							
		22.86	9.70	STANDBY Average							
05/23/01	14:58:10	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	14:58:15	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	14:58:20	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:58:25	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:58:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:58:35	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	14:58:40	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	14:58:45	0.66	4.81	4.97 % O2, 0 NOX							
		0.66	4.84	4.97 % O2, 0 NOX Average							
05/23/01	14:58:50	3.70	4.85	STANDBY							
05/23/01	14:58:55	82.78	6.00	STANDBY							
05/23/01	14:59:00	133.04	9.11	STANDBY							
05/23/01	14:59:05	139.86	11.68	STANDBY							
05/23/01	14:59:10	140.81	13.18	STANDBY							
05/23/01	14:59:15	141.19	14.09	STANDBY							
05/23/01	14:59:20	141.57	14.62	STANDBY							
05/23/01	14:59:25	141.76	14.94	STANDBY							
05/23/01	14:59:30	141.57	15.12	STANDBY							
05/23/01	14:59:35	141.76	15.25	STANDBY							
05/23/01	14:59:40	141.76	15.34	STANDBY							
05/23/01	14:59:45	141.95	15.41	STANDBY							
05/23/01	14:59:50	141.76	15.44	STANDBY							
05/23/01	14:59:55	141.76	15.47	STANDBY							
		126.81	12.89	STANDBY Average							
05/23/01	15:00:00	141.76	15.47	RUN 6	0.66	176.59	4.86	20.85	140.9	15.5	155.1
05/23/01	15:00:05	141.76	15.47	RUN 6	0.66	176.59	4.86	20.85	140.9	15.5	155.1
05/23/01	15:00:10	141.57	15.50	RUN 6	0.66	176.59	4.86	20.85	140.7	15.6	155.8
05/23/01	15:00:15	141.57	15.53	RUN 6	0.66	176.59	4.86	20.85	140.7	15.6	156.7
05/23/01	15:00:20	141.57	15.53	RUN 6	0.66	176.59	4.86	20.85	140.7	15.6	156.7
05/23/01	15:00:25	141.57	15.53	RUN 6	0.66	176.59	4.86	20.85	140.7	15.6	156.7
05/23/01	15:00:30	141.57	15.53	RUN 6	0.66	176.59	4.86	20.85	140.7	15.6	156.7
05/23/01	15:00:35	141.38	15.53	RUN 6	0.66	176.59	4.86	20.85	140.5	15.6	156.5
05/23/01	15:00:40	141.19	15.53	RUN 6	0.66	176.59	4.86	20.85	140.3	15.6	156.3
05/23/01	15:00:45	141.00	15.53	RUN 6	0.66	176.59	4.86	20.85	140.2	15.6	156.1
05/23/01	15:00:50	140.81	15.56	RUN 6	0.66	176.59	4.86	20.85	140.0	15.6	156.6
05/23/01	15:00:55	140.62	15.56	RUN 6	0.66	176.59	4.86	20.85	139.8	15.6	156.6
05/23/01	15:01:00	140.81	15.53	RUN 6	0.66	176.59	4.86	20.85	140.0	15.6	155.9
05/23/01	15:01:05	140.62	15.56	RUN 6	0.66	176.59	4.86	20.85	139.8	15.6	156.6
05/23/01	15:01:10	140.81	15.56	RUN 6	0.66	176.59	4.86	20.85	140.0	15.6	156.8
05/23/01	15:01:15	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:20	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:25	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:30	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:35	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:40	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4
05/23/01	15:01:45	140.43	15.56	RUN 6	0.66	176.59	4.86	20.85	139.6	15.6	156.4





JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx PPM	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O <sub>2</sub> 4.97 RESPONSE	O <sub>2</sub> 20.9	CORRECTED NOx, PPM	CORRECTED O <sub>2</sub> %	NOx CORRECTED TO 15% O <sub>2</sub>
05/23/01	15:16:40	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:16:45	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:16:50	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:16:55	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:17:00	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:17:05	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:17:10	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:17:15	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:17:20	138.35	15.50	RUN 6	0.66	176.59	4.86	20.85	137.5	15.6	152.2
05/23/01	15:17:25	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:17:30	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:17:35	138.92	15.47	RUN 6	0.86	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:17:40	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:17:45	138.35	15.47	RUN 6	0.86	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:17:50	138.35	15.47	RUN 6	0.86	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:17:55	138.16	15.47	RUN 6	0.86	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:18:00	138.35	15.47	RUN 6	0.86	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:18:05	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:18:10	138.16	15.47	RUN 6	0.86	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:18:15	138.16	15.47	RUN 6	0.86	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:18:20	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:18:25	138.54	15.47	RUN 6	0.86	176.59	4.86	20.85	137.7	15.5	151.8
05/23/01	15:18:30	138.54	15.47	RUN 6	0.86	176.59	4.86	20.85	137.7	15.5	151.8
05/23/01	15:18:35	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:18:40	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:18:45	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:18:50	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:18:55	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:19:00	138.16	15.47	RUN 6	0.86	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:19:05	138.35	15.47	RUN 6	0.86	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:19:10	137.59	15.47	RUN 6	0.86	176.59	4.86	20.85	136.7	15.5	150.5
05/23/01	15:19:15	137.97	15.47	RUN 6	0.86	176.59	4.86	20.85	137.1	15.5	150.9
05/23/01	15:19:20	138.16	15.47	RUN 6	0.86	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:19:25	138.16	15.47	RUN 6	0.66	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:19:30	137.97	15.47	RUN 6	0.66	176.59	4.86	20.85	137.1	15.5	150.9
05/23/01	15:19:35	138.16	15.47	RUN 6	0.66	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:19:40	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:19:45	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:19:50	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:19:55	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:20:00	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:20:05	138.54	15.47	RUN 6	0.86	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:20:10	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:20:15	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:20:20	139.11	15.47	RUN 6	0.66	176.59	4.86	20.85	138.3	15.5	152.2
05/23/01	15:20:25	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:20:30	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:20:35	138.92	15.47	RUN 6	0.66	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:20:40	139.11	15.47	RUN 6	0.66	176.59	4.86	20.85	138.3	15.5	152.2
05/23/01	15:20:45	139.11	15.47	RUN 6	0.86	176.59	4.86	20.85	138.3	15.5	152.2
05/23/01	15:20:50	139.30	15.47	RUN 6	0.66	176.59	4.86	20.85	138.5	15.5	152.4
05/23/01	15:20:55	139.30	15.47	RUN 6	0.66	176.59	4.86	20.85	138.5	15.5	152.4
05/23/01	15:21:00	139.11	15.47	RUN 6	0.66	176.59	4.86	20.85	138.3	15.5	152.2
05/23/01	15:21:05	139.11	15.47	RUN 6	0.66	176.59	4.86	20.85	138.3	15.5	152.2
05/23/01	15:21:10	138.92	15.47	RUN 6	0.86	176.59	4.86	20.85	138.1	15.5	152.0
05/23/01	15:21:15	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:21:20	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:21:25	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:21:30	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:21:35	138.54	15.47	RUN 6	0.66	176.59	4.86	20.85	137.7	15.5	151.6
05/23/01	15:21:40	138.73	15.47	RUN 6	0.66	176.59	4.86	20.85	137.9	15.5	151.8
05/23/01	15:21:45	138.35	15.47	RUN 6	0.66	176.59	4.86	20.85	137.5	15.5	151.4
05/23/01	15:21:50	138.16	15.47	RUN 6	0.66	176.59	4.86	20.85	137.3	15.5	151.1
05/23/01	15:21:55	138.16	15.47	RUN 6	0.66	176.59	4.86	20.85	137.3	15.5	151.1
		139.25	15.51	RUN 6 Average					138.4	15.6	153.5
05/23/01	15:22:00	138.35	15.47	STANDBY							
05/23/01	15:22:05	138.54	15.47	STANDBY							
05/23/01	15:22:10	138.54	15.47	STANDBY							
05/23/01	15:22:15	138.54	15.47	STANDBY							
05/23/01	15:22:20	138.73	15.47	STANDBY							
05/23/01	15:22:25	138.73	15.47	STANDBY							
05/23/01	15:22:30	138.54	15.47	STANDBY							
05/23/01	15:22:35	138.73	15.47	STANDBY							
05/23/01	15:22:40	138.54	15.47	STANDBY							
05/23/01	15:22:45	138.73	15.47	STANDBY							
05/23/01	15:22:50	138.73	15.47	STANDBY							
05/23/01	15:22:55	138.73	15.47	STANDBY							
05/23/01	15:23:00	138.73	15.47	STANDBY							
05/23/01	15:23:05	138.54	15.47	STANDBY							
05/23/01	15:23:10	137.40	15.47	STANDBY							
05/23/01	15:23:15	136.64	15.44	STANDBY							
05/23/01	15:23:20	133.98	15.47	STANDBY							
05/23/01	15:23:25	102.31	15.15	STANDBY							
05/23/01	15:23:30	77.66	13.49	STANDBY							
05/23/01	15:23:35	122.42	10.49	STANDBY							
05/23/01	15:23:40	154.09	7.20	STANDBY							
05/23/01	15:23:45	166.79	4.56	STANDBY							
05/23/01	15:23:50	171.72	2.81	STANDBY							
05/23/01	15:23:55	173.43	1.71	STANDBY							

JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	15:24:00	174.00	1.02	STANDBY							
05/23/01	15:24:05	174.57	0.61	STANDBY							
05/23/01	15:24:10	174.95	0.36	STANDBY							
05/23/01	15:24:15	174.95	0.21	STANDBY							
05/23/01	15:24:20	175.14	0.08	STANDBY							
05/23/01	15:24:25	175.14	0.02	STANDBY							
05/23/01	15:24:30	175.14	-0.04	STANDBY							
05/23/01	15:24:35	175.33	-0.08	STANDBY							
05/23/01	15:24:40	175.52	-0.11	STANDBY							
05/23/01	15:24:45	175.52	-0.14	STANDBY							
05/23/01	15:24:50	175.71	1.30	STANDBY							
05/23/01	15:24:55	175.52	7.54	STANDBY							
05/23/01	15:25:00	175.52	12.96	STANDBY							
05/23/01	15:25:05	175.52	16.13	STANDBY							
05/23/01	15:25:10	175.90	17.91	STANDBY							
05/23/01	15:25:15	175.90	18.95	STANDBY							
05/23/01	15:25:20	175.52	19.54	STANDBY							
05/23/01	15:25:25	175.90	19.89	STANDBY							
05/23/01	15:25:30	175.90	20.14	STANDBY							
05/23/01	15:25:35	175.71	20.29	STANDBY							
05/23/01	15:25:40	176.28	20.39	STANDBY							
05/23/01	15:25:45	175.90	20.48	STANDBY							
05/23/01	15:25:50	175.90	20.51	STANDBY							
05/23/01	15:25:55	176.09	20.58	STANDBY							
05/23/01	15:26:00	176.09	20.61	STANDBY							
05/23/01	15:26:05	176.28	20.64	STANDBY							
05/23/01	15:26:10	176.09	20.64	STANDBY							
05/23/01	15:26:15	176.09	20.67	STANDBY							
05/23/01	15:26:20	176.09	20.67	STANDBY							
		158.86	12.45	STANDBY Average							
05/23/01	15:26:25	176.28	20.83	175.7 NOX, 20.9 O2							
05/23/01	15:26:30	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:26:35	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:26:40	176.47	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:26:45	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:26:50	176.66	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:26:55	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:27:00	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	15:27:05	176.66	20.89	175.7 NOX, 20.9 O2							
05/23/01	15:27:10	176.09	20.89	175.7 NOX, 20.9 O2							
05/23/01	15:27:15	176.47	20.89	175.7 NOX, 20.9 O2							
05/23/01	15:27:20	176.28	20.89	175.7 NOX, 20.9 O2							
		176.35	20.87	175.7 NOX, 20.9 O2 Average							
05/23/01	15:27:25	175.71	20.89	STANDBY							
05/23/01	15:27:30	141.38	20.89	STANDBY							
05/23/01	15:27:35	65.33	20.89	STANDBY							
05/23/01	15:27:40	25.32	20.89	STANDBY							
05/23/01	15:27:45	10.34	19.73	STANDBY							
05/23/01	15:27:50	4.65	14.64	STANDBY							
05/23/01	15:27:55	2.75	10.74	STANDBY							
05/23/01	15:28:00	1.99	6.32	STANDBY							
05/23/01	15:28:05	1.61	7.01	STANDBY							
05/23/01	15:28:10	1.23	6.22	STANDBY							
05/23/01	15:28:15	1.23	5.75	STANDBY							
05/23/01	15:28:20	1.04	5.47	STANDBY							
05/23/01	15:28:25	1.04	5.28	STANDBY							
05/23/01	15:28:30	1.04	5.16	STANDBY							
05/23/01	15:28:35	0.66	5.06	STANDBY							
05/23/01	15:28:40	0.66	5.03	STANDBY							
05/23/01	15:28:45	0.66	4.97	STANDBY							
		25.69	11.01	STANDBY Average							
05/23/01	15:28:50	0.66	4.94	4.97 % O2, 0 NOX							
05/23/01	15:28:55	0.66	4.94	4.97 % O2, 0 NOX							
05/23/01	15:29:00	0.66	4.91	4.97 % O2, 0 NOX							
05/23/01	15:29:05	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:29:10	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:29:15	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:29:20	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:29:25	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:29:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:29:35	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:29:40	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:29:45	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:29:50	0.66	4.81	4.97 % O2, 0 NOX							
		0.66	4.87	4.97 % O2, 0 NOX Average							
05/23/01	15:29:55	1.42	4.81	STANDBY							
05/23/01	15:30:00	42.39	5.38	STANDBY							
05/23/01	15:30:05	104.02	7.70	STANDBY							
05/23/01	15:30:10	129.24	10.45	STANDBY							
05/23/01	15:30:15	136.26	12.46	STANDBY							
05/23/01	15:30:20	138.35	13.68	STANDBY							
05/23/01	15:30:25	138.92	14.40	STANDBY							
05/23/01	15:30:30	139.11	14.84	STANDBY							
05/23/01	15:30:35	138.73	15.09	STANDBY							
05/23/01	15:30:40	138.73	15.25	STANDBY							
05/23/01	15:30:45	138.73	15.34	STANDBY							
05/23/01	15:30:50	138.35	15.41	STANDBY							
05/23/01	15:30:55	138.73	15.47	STANDBY							
05/23/01	15:31:00	138.92	15.47	STANDBY							



JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx ppm	CORRECTED O <sub>2</sub> %	NOx CORRECTED TO 15% O <sub>2</sub>
05/23/01	15:31:05	138.73	15.53	STANDBY							
05/23/01	15:31:10	138.73	15.53	STANDBY							
05/23/01	15:31:15	138.92	15.56	STANDBY							
05/23/01	15:31:20	138.92	15.56	STANDBY							
05/23/01	15:31:25	138.73	15.56	STANDBY							
05/23/01	15:31:30	138.92	15.56	STANDBY							
05/23/01	15:31:35	138.73	15.59	STANDBY							
05/23/01	15:31:40	138.54	15.59	STANDBY							
05/23/01	15:31:45	138.54	15.59	STANDBY							
05/23/01	15:31:50	138.54	15.59	STANDBY							
05/23/01	15:31:55	138.73	15.59	STANDBY							
		127.51	13.88	STANDBY Average							
05/23/01	15:32:00	138.92	15.59	RUN 7	0.66	176.04	4.86	20.94	138.5	15.6	154.4
05/23/01	15:32:05	138.54	15.59	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.0
05/23/01	15:32:10	137.97	15.59	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	153.4
05/23/01	15:32:15	137.40	15.59	RUN 7	0.66	176.04	4.86	20.94	137.0	15.6	152.7
05/23/01	15:32:20	137.59	15.62	RUN 7	0.66	176.04	4.86	20.94	137.2	15.6	153.8
05/23/01	15:32:25	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:32:30	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:32:35	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:32:40	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:32:45	137.97	15.58	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	153.4
05/23/01	15:32:50	138.16	15.59	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	153.6
05/23/01	15:32:55	138.16	15.59	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	153.6
05/23/01	15:33:00	138.16	15.59	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	153.6
05/23/01	15:33:05	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:33:10	137.97	15.59	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	153.4
05/23/01	15:33:15	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:33:20	137.59	15.62	RUN 7	0.66	176.04	4.86	20.94	137.2	15.6	153.8
05/23/01	15:33:25	137.78	15.62	RUN 7	0.86	176.04	4.86	20.94	137.4	15.6	154.0
05/23/01	15:33:30	137.78	15.66	RUN 7	0.86	176.04	4.86	20.94	137.4	15.7	155.0
05/23/01	15:33:35	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:33:40	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:33:45	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
06/23/01	15:33:50	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
06/23/01	15:33:55	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:34:00	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:34:05	138.16	15.62	RUN 7	0.86	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:34:10	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:34:15	137.97	15.62	RUN 7	0.86	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:34:20	137.97	15.62	RUN 7	0.66	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:34:25	137.78	15.62	RUN 7	0.66	176.04	4.86	20.94	137.4	15.6	154.0
05/23/01	15:34:30	137.97	15.62	RUN 7	0.86	176.04	4.86	20.94	137.6	15.6	154.3
05/23/01	15:34:35	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:34:40	138.35	15.62	RUN 7	0.66	176.04	4.86	20.94	137.9	15.6	154.7
05/23/01	15:34:45	138.54	15.62	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.9
05/23/01	15:34:50	138.54	15.62	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.9
05/23/01	15:34:55	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:35:00	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:35:05	138.35	15.66	RUN 7	0.66	176.04	4.86	20.94	137.9	15.7	155.6
05/23/01	15:35:10	138.35	15.62	RUN 7	0.66	176.04	4.86	20.94	137.9	15.6	154.7
05/23/01	15:35:15	138.54	15.62	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.9
05/23/01	15:35:20	138.54	15.62	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.9
05/23/01	15:35:25	138.35	15.62	RUN 7	0.66	176.04	4.86	20.94	137.9	15.6	154.7
05/23/01	15:35:30	138.35	15.62	RUN 7	0.66	176.04	4.86	20.94	137.9	15.6	154.7
05/23/01	15:35:35	138.73	15.62	RUN 7	0.66	176.04	4.86	20.94	138.3	15.6	155.1
05/23/01	15:35:40	138.73	15.62	RUN 7	0.66	176.04	4.86	20.94	138.3	15.6	155.1
05/23/01	15:35:45	138.54	15.62	RUN 7	0.66	176.04	4.86	20.94	138.1	15.6	154.9
05/23/01	15:35:50	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:35:55	137.59	15.62	RUN 7	0.66	176.04	4.86	20.94	137.2	15.6	153.8
05/23/01	15:36:00	137.40	15.66	RUN 7	0.66	176.04	4.86	20.94	137.0	15.7	154.5
05/23/01	15:36:05	137.59	15.66	RUN 7	0.66	176.04	4.86	20.94	137.2	15.7	154.8
05/23/01	15:36:10	137.78	15.66	RUN 7	0.66	176.04	4.86	20.94	137.4	15.7	155.0
05/23/01	15:36:15	137.78	15.66	RUN 7	0.66	176.04	4.86	20.94	137.4	15.7	155.0
05/23/01	15:36:20	137.59	15.66	RUN 7	0.66	176.04	4.86	20.94	137.2	15.7	154.8
05/23/01	15:36:25	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:36:30	138.16	15.66	RUN 7	0.66	176.04	4.86	20.94	137.7	15.7	155.4
05/23/01	15:36:35	138.35	15.66	RUN 7	0.66	176.04	4.86	20.94	137.9	15.7	155.6
05/23/01	15:36:40	138.16	15.66	RUN 7	0.66	176.04	4.86	20.94	137.7	15.7	155.4
05/23/01	15:36:45	138.16	15.62	RUN 7	0.66	176.04	4.86	20.94	137.7	15.6	154.5
05/23/01	15:36:50	138.16	15.66	RUN 7	0.66	176.04	4.86	20.94	137.7	15.7	155.4
05/23/01	15:36:55	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:37:00	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:37:05	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:37:10	138.16	15.66	RUN 7	0.66	176.04	4.86	20.94	137.7	15.7	155.4
05/23/01	15:37:15	137.97	15.66	RUN 7	0.66	176.04	4.86	20.94	137.6	15.7	155.2
05/23/01	15:37:20	137.59	15.66	RUN 7	0.66	176.04	4.86	20.94	137.2	15.7	154.8
05/23/01	15:37:25	137.59	15.66	RUN 7	0.66	176.04	4.86	20.94	137.2	15.7	154.8
05/23/01	15:37:30	137.40	15.66	RUN 7	0.66	176.04	4.86	20.94	137.0	15.7	154.5
05/23/01	15:37:35	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3
05/23/01	15:37:40	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3
05/23/01	15:37:45	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3
05/23/01	15:37:50	136.64	15.66	RUN 7	0.66	176.04	4.86	20.94	136.2	15.7	153.7
05/23/01	15:37:55	136.64	15.66	RUN 7	0.66	176.04	4.86	20.94	136.2	15.7	153.7
05/23/01	15:38:00	136.83	15.66	RUN 7	0.66	176.04	4.86	20.94	136.4	15.7	153.9
05/23/01	15:38:05	137.02	15.66	RUN 7	0.86	176.04	4.86	20.94	136.6	15.7	154.1
05/23/01	15:38:10	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3
05/23/01	15:38:15	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3
05/23/01	15:38:20	137.21	15.66	RUN 7	0.66	176.04	4.86	20.94	136.8	15.7	154.3





JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	Nox O Response	Nox 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	Nox CORRECTED TO 15% O2
05/23/01	15:53:10	137.97	15.72	STANDBY							
05/23/01	15:53:15	138.16	15.72	STANDBY							
05/23/01	15:53:20	138.16	15.72	STANDBY							
05/23/01	15:53:25	138.16	15.72	STANDBY							
05/23/01	15:53:30	137.97	15.72	STANDBY							
05/23/01	15:53:35	138.16	15.72	STANDBY							
05/23/01	15:53:40	138.54	15.72	STANDBY							
05/23/01	15:53:45	138.54	15.72	STANDBY							
05/23/01	15:53:50	138.73	15.72	STANDBY							
05/23/01	15:53:55	138.54	15.72	STANDBY							
05/23/01	15:54:00	138.73	15.72	STANDBY							
05/23/01	15:54:05	138.54	15.72	STANDBY							
05/23/01	15:54:10	138.35	15.72	STANDBY							
05/23/01	15:54:15	137.97	15.72	STANDBY							
05/23/01	15:54:20	137.97	15.69	STANDBY							
05/23/01	15:54:25	137.78	15.72	STANDBY							
05/23/01	15:54:30	108.76	15.47	STANDBY							
05/23/01	15:54:35	90.75	13.78	STANDBY							
05/23/01	15:54:40	133.42	10.49	STANDBY							
05/23/01	15:54:45	158.64	9.23	STANDBY							
05/23/01	15:54:50	168.69	13.24	STANDBY							
05/23/01	15:54:55	172.48	16.66	STANDBY							
05/23/01	15:55:00	173.43	18.57	STANDBY							
05/23/01	15:55:05	174.19	19.60	STANDBY							
05/23/01	15:55:10	174.57	20.17	STANDBY							
05/23/01	15:55:15	174.57	20.51	STANDBY							
05/23/01	15:55:20	174.95	20.70	STANDBY							
05/23/01	15:55:25	174.95	20.83	STANDBY							
05/23/01	15:55:30	175.14	20.89	STANDBY							
05/23/01	15:55:35	174.95	20.95	STANDBY							
05/23/01	15:55:40	175.33	20.98	STANDBY							
05/23/01	15:55:45	175.52	21.01	STANDBY							
05/23/01	15:55:50	175.52	21.05	STANDBY							
05/23/01	15:55:55	175.33	21.05	STANDBY							
		150.54	16.89	STANDBY Average							
05/23/01	15:56:00	175.52	21.05	175.9 NOX, 20.9 O2							
05/23/01	15:56:05	175.52	21.08	175.9 NOX, 20.9 O2							
05/23/01	15:56:10	175.71	21.08	175.9 NOX, 20.9 O2							
05/23/01	15:56:15	175.71	21.08	175.9 NOX, 20.9 O2							
05/23/01	15:56:20	175.90	20.95	175.9 NOX, 20.9 O2							
05/23/01	15:56:25	175.90	20.89	175.9 NOX, 20.9 O2							
05/23/01	15:56:30	175.90	20.89	175.9 NOX, 20.9 O2							
		175.73	21.00	175.9 NOX, 20.9 O2 Average							
05/23/01	15:56:35	175.71	20.89	STANDBY							
05/23/01	15:56:40	153.52	20.89	STANDBY							
05/23/01	15:56:45	78.80	20.89	STANDBY							
05/23/01	15:56:50	32.71	20.80	STANDBY							
05/23/01	15:56:55	13.18	17.69	STANDBY							
05/23/01	15:57:00	6.16	12.52	STANDBY							
05/23/01	15:57:05	3.51	9.26	STANDBY							
05/23/01	15:57:10	2.18	7.48	STANDBY							
05/23/01	15:57:15	1.80	6.47	STANDBY							
05/23/01	15:57:20	1.42	5.91	STANDBY							
05/23/01	15:57:25	1.23	5.57	STANDBY							
05/23/01	15:57:30	1.04	5.35	STANDBY							
05/23/01	15:57:35	1.04	5.19	STANDBY							
05/23/01	15:57:40	1.04	5.10	STANDBY							
05/23/01	15:57:45	0.85	5.03	STANDBY							
05/23/01	15:57:50	0.66	5.00	STANDBY							
05/23/01	15:57:55	0.66	4.94	STANDBY							
05/23/01	15:58:00	0.85	4.94	STANDBY							
05/23/01	15:58:05	0.85	4.91	STANDBY							
05/23/01	15:58:10	0.85	4.91	STANDBY							
05/23/01	15:58:15	0.66	4.88	STANDBY							
		22.80	9.46	STANDBY Average							
05/23/01	15:58:20	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:58:25	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	15:58:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:58:35	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:58:40	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:58:45	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:58:50	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	15:58:55	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	15:59:00	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	15:59:05	0.66	4.81	4.97 % O2, 0 NOX							
		0.66	4.84	4.97 % O2, 0 NOX Average							
05/23/01	15:59:10	5.97	4.85	STANDBY							
05/23/01	15:59:15	67.23	5.94	STANDBY							
05/23/01	15:59:20	116.35	8.73	STANDBY							
05/23/01	15:59:25	132.09	11.33	STANDBY							
05/23/01	15:59:30	136.07	13.02	STANDBY							
05/23/01	15:59:35	137.21	14.03	STANDBY							
05/23/01	15:59:40	137.59	14.62	STANDBY							
05/23/01	15:59:45	137.59	14.94	STANDBY							
05/23/01	15:59:50	137.78	15.15	STANDBY							
05/23/01	15:59:55	137.78	15.28	STANDBY							
		114.56	11.79	STANDBY Average							
05/23/01	16:00:00	138.35	15.37	RUN 8	0.66	175.69	4.86	20.97	138.2	15.4	147.4
05/23/01	16:00:05	138.35	15.41	RUN 8	0.66	175.69	4.86	20.97	138.2	15.4	148.2







JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, Ppm	CORRECTED O2, %	NOx CORRECTED TO 18% O2
05/23/01	16:22:20	135.50	15.62	STANDBY							
05/23/01	16:22:25	135.31	15.62	STANDBY							
05/23/01	16:22:30	135.12	15.62	STANDBY							
05/23/01	16:22:35	135.31	15.62	STANDBY							
05/23/01	16:22:40	135.12	15.62	STANDBY							
05/23/01	16:22:45	135.31	15.62	STANDBY							
05/23/01	16:22:50	135.31	15.62	STANDBY							
05/23/01	16:22:55	135.31	15.62	STANDBY							
05/23/01	16:23:00	135.31	15.62	STANDBY							
05/23/01	16:23:05	135.12	15.62	STANDBY							
05/23/01	16:23:10	135.50	15.62	STANDBY							
05/23/01	16:23:15	135.31	15.62	STANDBY							
05/23/01	16:23:20	135.31	15.62	STANDBY							
05/23/01	16:23:25	135.12	15.62	STANDBY							
05/23/01	16:23:30	135.31	15.62	STANDBY							
05/23/01	16:23:35	135.12	15.62	STANDBY							
05/23/01	16:23:40	135.12	15.62	STANDBY							
05/23/01	16:23:45	135.12	15.62	STANDBY							
05/23/01	16:23:50	135.12	15.62	STANDBY							
05/23/01	16:23:55	135.12	15.62	STANDBY							
05/23/01	16:24:00	135.12	15.62	STANDBY							
05/23/01	16:24:05	135.31	15.62	STANDBY							
05/23/01	16:24:10	135.50	15.62	STANDBY							
05/23/01	16:24:15	135.69	15.62	STANDBY							
05/23/01	16:24:20	129.43	15.59	STANDBY							
05/23/01	16:24:25	85.63	15.03	STANDBY							
05/23/01	16:24:30	86.57	15.50	STANDBY							
05/23/01	16:24:35	131.62	17.60	STANDBY							
05/23/01	16:24:40	156.93	19.04	STANDBY							
05/23/01	16:24:45	167.65	19.86	STANDBY							
05/23/01	16:24:50	171.72	20.29	STANDBY							
05/23/01	16:24:55	173.43	20.54	STANDBY							
05/23/01	16:25:00	174.19	20.70	STANDBY							
05/23/01	16:25:05	174.57	20.76	STANDBY							
05/23/01	16:25:10	174.76	20.83	STANDBY							
05/23/01	16:25:15	174.95	20.86	STANDBY							
		138.74	18.37	STANDBY Average							
05/23/01	16:25:20	175.14	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:25:25	175.14	20.92	175.7 NOX, 20.9 O2							
05/23/01	16:25:30	175.33	20.92	175.7 NOX, 20.9 O2							
05/23/01	16:25:35	175.33	20.92	175.7 NOX, 20.9 O2							
05/23/01	16:25:40	175.52	20.92	175.7 NOX, 20.9 O2							
05/23/01	16:25:45	175.52	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:25:50	175.52	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:25:55	175.52	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:00	175.52	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:05	175.71	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:10	175.90	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:15	175.90	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:20	176.09	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:25	175.90	20.95	175.7 NOX, 20.9 O2							
05/23/01	16:26:30	176.28	20.98	175.7 NOX, 20.9 O2							
05/23/01	16:26:35	175.90	20.95	175.7 NOX, 20.9 O2							
		175.64	20.94	175.7 NOX, 20.9 O2 Average							
05/23/01	16:26:40	172.10	20.98	STANDBY							
05/23/01	16:26:45	150.10	20.98	STANDBY							
05/23/01	16:26:50	112.56	20.98	STANDBY							
05/23/01	16:26:55	50.16	20.98	STANDBY							
05/23/01	16:27:00	20.77	20.95	STANDBY							
05/23/01	16:27:05	9.01	20.95	STANDBY							
05/23/01	16:27:10	4.46	20.51	STANDBY							
05/23/01	16:27:15	2.56	16.28	STANDBY							
05/23/01	16:27:20	1.80	11.55	STANDBY							
05/23/01	16:27:25	1.42	6.79	STANDBY							
05/23/01	16:27:30	1.23	7.23	STANDBY							
05/23/01	16:27:35	1.04	6.35	STANDBY							
05/23/01	16:27:40	1.04	5.85	STANDBY							
05/23/01	16:27:45	0.85	5.53	STANDBY							
05/23/01	16:27:50	0.66	5.32	STANDBY							
05/23/01	16:27:55	0.66	5.19	STANDBY							
05/23/01	16:28:00	0.66	5.10	STANDBY							
05/23/01	16:28:05	0.85	5.03	STANDBY							
05/23/01	16:28:10	0.66	5.00	STANDBY							
05/23/01	16:28:15	0.85	4.97	STANDBY							
05/23/01	16:28:20	0.66	4.94	STANDBY							
05/23/01	16:28:25	0.66	4.91	STANDBY							
05/23/01	16:28:30	0.66	4.91	STANDBY							
05/23/01	16:28:35	0.66	4.91	STANDBY							
		22.34	10.76	STANDBY Average							
05/23/01	16:28:40	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:28:45	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:28:50	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:28:55	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:29:00	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:29:05	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:29:10	0.66	4.85	4.97 % O2, 0 NOX							
		0.66	4.87	4.97 % O2, 0 NOX Average							
05/23/01	16:29:15	5.41	4.88	STANDBY							
05/23/01	16:29:20	53.76	5.63	STANDBY							



# JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 *WITHOUT FOGGERS*

DATE	Time	NOx Ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O <sub>2</sub> 4.87 RESPONSE	O <sub>2</sub> 20.9	CORRECTED NOx, Ppm	CORRECTED O <sub>2</sub> %	NOx CORRECTED TO 15% O <sub>2</sub>
05/23/01	16:29:25	34.61	7.01	STANDBY							
05/23/01	16:29:30	109.33	7.95	STANDBY							
05/23/01	16:29:35	129.62	10.55	STANDBY							
05/23/01	16:29:40	133.61	12.55	STANDBY							
05/23/01	16:29:45	135.12	13.74	STANDBY							
05/23/01	16:29:50	135.69	14.43	STANDBY							
05/23/01	16:29:55	136.26	14.84	STANDBY							
		97.05	10.18								
				STANDBY Average							
05/23/01	16:30:00	136.45	15.09	RUN 9	0.60	175.84	4.85	20.91	136.2	15.1	139.3
05/23/01	16:30:05	136.45	15.25	RUN 9	0.60	175.84	4.85	20.91	136.2	15.3	143.2
05/23/01	16:30:10	136.45	15.34	RUN 9	0.60	175.84	4.85	20.91	136.2	15.4	145.6
05/23/01	16:30:15	136.64	15.41	RUN 9	0.60	175.84	4.85	20.91	136.4	15.4	147.5
05/23/01	16:30:20	136.64	15.47	RUN 9	0.60	175.84	4.85	20.91	136.4	15.5	149.2
05/23/01	16:30:25	136.83	15.47	RUN 9	0.60	175.84	4.85	20.91	136.6	15.5	149.4
05/23/01	16:30:30	136.83	15.47	RUN 9	0.60	175.84	4.85	20.91	136.6	15.5	149.4
05/23/01	16:30:35	136.45	15.53	RUN 9	0.60	175.84	4.85	20.91	136.2	15.6	150.7
05/23/01	16:30:40	136.64	15.56	RUN 9	0.60	175.84	4.85	20.91	136.4	15.6	151.8
05/23/01	16:30:45	136.64	15.53	RUN 9	0.60	175.84	4.85	20.91	136.4	15.6	150.9
05/23/01	16:30:50	136.45	15.56	RUN 9	0.60	175.84	4.85	20.91	136.2	15.6	151.6
05/23/01	16:30:55	136.26	15.56	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	151.4
05/23/01	16:31:00	136.26	15.59	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	152.3
05/23/01	16:31:05	136.07	15.56	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	151.2
05/23/01	16:31:10	136.26	15.56	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	151.4
05/23/01	16:31:15	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:31:20	136.26	15.59	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	152.3
05/23/01	16:31:25	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:31:30	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:31:35	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:31:40	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:31:45	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:31:50	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:31:55	136.26	15.59	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	152.3
05/23/01	16:32:00	136.26	15.59	RUN 9	0.60	175.84	4.85	20.91	136.0	15.6	152.3
05/23/01	16:32:05	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:32:10	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:32:15	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:32:20	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:32:25	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:32:30	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:32:35	136.07	15.59	RUN 9	0.60	175.84	4.85	20.91	135.8	15.6	152.0
05/23/01	16:32:40	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:32:45	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.8	151.8
05/23/01	16:32:50	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:32:55	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:00	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:05	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:10	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:15	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:33:20	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:25	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:30	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:35	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:40	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:33:45	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:33:50	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:33:55	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:34:00	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:34:05	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:34:10	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:34:15	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:34:20	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:34:25	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:34:30	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:34:35	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:34:40	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:34:45	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:34:50	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:34:55	135.88	15.59	RUN 9	0.60	175.84	4.85	20.91	135.6	15.6	151.8
05/23/01	16:35:00	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:35:05	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:35:10	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:35:15	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:35:20	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:35:25	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:35:30	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:35:35	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:35:40	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:35:45	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:35:50	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:35:55	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:36:00	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:36:05	135.50	15.59	RUN 9	0.60	175.84	4.85	20.91	135.3	15.6	151.4
05/23/01	16:36:10	135.69	15.59	RUN 9	0.60	175.84	4.85	20.91	135.4	15.6	151.6
05/23/01	16:36:15	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:36:20	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:36:25	135.31	15.59	RUN 9	0.60	175.84	4.85	20.91	135.1	15.6	151.2
05/23/01	16:36:30	135.12	15.59	RUN 9	0.60	175.84	4.85	20.91	134.9	15.6	151.0
05/23/01	16:36:35	135.12	15.59	RUN 9	0.60	175.84	4.85	20.91	134.9	15.6	151.0
05/23/01	16:36:40	135.12	15.59	RUN 9	0.60	175.84	4.85	20.91	134.9	15.6	151.0





**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS**

DATE	Time	NOx ppm	OXYGEN %	COMMENTS	NOx 0 Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	16:51:30	137.40	15.59	STANDBY							
05/23/01	16:51:35	137.40	15.59	STANDBY							
05/23/01	16:51:40	137.21	15.59	STANDBY							
05/23/01	16:51:45	136.83	15.59	STANDBY							
05/23/01	16:51:50	136.83	15.59	STANDBY							
05/23/01	16:51:55	136.83	15.59	STANDBY							
05/23/01	16:52:00	136.83	15.59	STANDBY							
05/23/01	16:52:05	137.02	15.59	STANDBY							
05/23/01	16:52:10	136.83	15.59	STANDBY							
05/23/01	16:52:15	137.21	15.59	STANDBY							
05/23/01	16:52:20	121.66	15.50	STANDBY							
05/23/01	16:52:25	63.25	14.40	STANDBY							
05/23/01	16:52:30	24.37	11.96	STANDBY							
05/23/01	16:52:35	9.20	9.51	STANDBY							
05/23/01	16:52:40	4.08	7.76	STANDBY							
05/23/01	16:52:45	2.18	6.66	STANDBY							
05/23/01	16:52:50	1.42	6.00	STANDBY							
05/23/01	16:52:55	1.04	5.60	STANDBY							
05/23/01	16:53:00	1.04	5.35	STANDBY							
05/23/01	16:53:05	0.85	5.19	STANDBY							
05/23/01	16:53:10	0.85	5.10	STANDBY							
05/23/01	16:53:15	0.85	5.03	STANDBY							
05/23/01	16:53:20	0.66	5.00	STANDBY							
05/23/01	16:53:25	0.66	4.94	STANDBY							
05/23/01	16:53:30	0.66	4.94	STANDBY							
05/23/01	16:53:35	0.66	4.91	STANDBY							
05/23/01	16:53:40	0.66	4.91	STANDBY							
05/23/01	16:53:45	0.66	4.88	STANDBY							
		71.43	11.09	STANDBY Average							
05/23/01	16:53:50	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:53:55	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:54:00	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:54:05	0.66	4.88	4.97 % O2, 0 NOX							
05/23/01	16:54:10	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:15	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:20	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:25	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:30	0.66	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:35	0.66	4.81	4.97 % O2, 0 NOX							
05/23/01	16:54:40	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:54:45	0.47	4.85	4.97 % O2, 0 NOX							
05/23/01	16:54:50	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:54:55	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:00	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:05	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:10	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:15	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:20	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:25	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:30	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:35	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:40	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:45	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:50	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:55:55	0.47	4.81	4.97 % O2, 0 NOX							
05/23/01	16:56:00	0.47	4.81	4.97 % O2, 0 NOX							
		0.54	4.83	4.97 % O2, 0 NOX Average							
05/23/01	16:56:05	0.66	4.81	STANDBY							
05/23/01	16:56:10	29.11	4.75	STANDBY							
05/23/01	16:56:15	99.47	4.22	STANDBY							
05/23/01	16:56:20	143.28	3.12	STANDBY							
05/23/01	16:56:25	160.91	2.02	STANDBY							
05/23/01	16:56:30	168.88	1.21	STANDBY							
05/23/01	16:56:35	172.29	0.68	STANDBY							
05/23/01	16:56:40	173.62	2.12	STANDBY							
05/23/01	16:56:45	174.19	6.54	STANDBY							
05/23/01	16:56:50	174.76	13.78	STANDBY							
05/23/01	16:56:55	175.14	16.75	STANDBY							
05/23/01	16:57:00	175.14	18.38	STANDBY							
05/23/01	16:57:05	175.33	19.32	STANDBY							
05/23/01	16:57:10	175.52	19.86	STANDBY							
05/23/01	16:57:15	175.52	20.20	STANDBY							
05/23/01	16:57:20	175.71	20.39	STANDBY							
05/23/01	16:57:25	175.71	20.54	STANDBY							
05/23/01	16:57:30	175.90	20.64	STANDBY							
05/23/01	16:57:35	176.09	20.70	STANDBY							
05/23/01	16:57:40	176.09	20.73	STANDBY							
05/23/01	16:57:45	176.09	20.80	STANDBY							
05/23/01	16:57:50	175.90	20.80	STANDBY							
		154.79	12.93	STANDBY Average							
05/23/01	16:57:55	175.90	20.83	175.7 NOX, 20.9 O2							
05/23/01	16:58:00	176.09	20.86	175.7 NOX, 20.9 O2							
05/23/01	16:58:05	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	16:58:10	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	16:58:15	176.28	20.86	175.7 NOX, 20.9 O2							
05/23/01	16:58:20	176.28	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:25	176.47	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:30	176.09	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:35	175.90	20.89	175.7 NOX, 20.9 O2							

**JACKSONVILLE ELECTRIC AUTHORITY - NGS TURBINE 5 WITHOUT FOGGERS**

DATE	Time	NOx Ppm	OXYGEN %	COMMENTS	NOx O Response	NOx 175.7	O2 4.97 RESPONSE	O2 20.9	CORRECTED NOx, ppm	CORRECTED O2, %	NOx CORRECTED TO 15% O2
05/23/01	16:58:40	176.09	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:45	175.90	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:50	175.52	20.89	175.7 NOX, 20.9 O2							
05/23/01	16:58:55	175.33	20.89	175.7 NOX, 20.9 O2							
		176.03	20.87	175.7 NOX, 20.9 O2 Average							
05/23/01	16:59:00	161.86	20.89	END TEST							
05/23/01	16:59:05	122.42	20.92	END TEST							
05/23/01	16:59:10	105.92	20.92	END TEST							
05/23/01	16:59:15	59.26	20.92	END TEST							
05/23/01	16:59:20	25.51	20.92	END TEST							
05/23/01	16:59:25	9.96	20.92	END TEST							
05/23/01	16:59:30	4.65	20.92	END TEST							
05/23/01	16:59:35	2.75	20.92	END TEST							
05/23/01	16:59:40	1.99	20.92	END TEST							
05/23/01	16:59:45	1.61	20.92	END TEST							
05/23/01	16:59:50	1.42	20.92	END TEST							
05/23/01	16:59:55	1.23	20.92	END TEST							
05/23/01	17:00:00	1.23	20.92	END TEST							
05/23/01	17:00:05	1.04	20.92	END TEST							
05/23/01	17:00:10	1.04	20.92	END TEST							
05/23/01	17:00:15	1.04	20.92	END TEST							
05/23/01	17:00:20	0.85	20.92	END TEST							
05/23/01	17:00:25	0.85	20.92	END TEST							
05/23/01	17:00:30	0.66	20.92	END TEST							
05/23/01	17:00:35	0.85	20.92	END TEST							
05/23/01	17:00:40	0.66	20.92	END TEST							
05/23/01	17:00:45	0.66	20.92	END TEST							
05/23/01	17:00:50	0.66	20.92	END TEST							
05/23/01	17:00:55	0.85	20.92	END TEST							
05/23/01	17:01:00	0.66	20.92	END TEST							
05/23/01	17:01:05	0.66	20.92	END TEST							
05/23/01	17:01:10	0.66	20.92	END TEST							
05/23/01	17:01:15	0.66	20.92	END TEST							
05/23/01	17:01:20	0.66	20.92	END TEST							
05/23/01	17:01:25	0.66	20.92	END TEST							
05/23/01	17:01:30	0.66	20.92	END TEST							
05/23/01	17:01:35	0.66	20.92	END TEST							
05/23/01	17:01:40	0.66	20.92	END TEST							
05/23/01	17:01:45	0.66	20.92	END TEST							
05/23/01	17:01:50	0.66	20.92	END TEST							
05/23/01	17:01:55	0.66	20.92	END TEST							
05/23/01	17:02:00	0.66	20.92	END TEST							
05/23/01	17:02:05	0.66	20.92	END TEST							
05/23/01	17:02:10	0.66	20.92	END TEST							
05/23/01	17:02:15	0.66	20.92	END TEST							
05/23/01	17:02:20	0.66	20.92	END TEST							
05/23/01	17:02:25	—	20.92	END TEST							

APPENDIX B  
CALIBRATION DATA

**JEA - NGS #5 TURBINE CALIBRATION GAS SUMMARY WITH FOGGERS**

**OXIDES OF NITROGEN 0 - 200 ppm**

CALIBRATION GAS VALUE	INITIAL CALIBRATION	CALIBRATION ERROR, % SPAN	POST RUN 1	POST RUN 2	POST RUN 3	POST RUN 4	POST RUN 5	POST RUN 6	POST RUN 7	POST RUN 8	POST RUN 9
0.00	0.30	0.15	0.68	0.54	0.41	0.39	0.19	0.48	0.39	0.41	0.16
175.70	175.77	0.04	175.47	174.51	175.33	175.79	175.28	175.29	175.18	174.63	175.23
84.98	84.69	-0.15	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47.60	47.44	-0.08	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Co	N/A	N/A	0.49	0.61	0.48	0.40	0.29	0.34	0.44	0.40	0.29
Cm	N/A	N/A	175.62	174.99	174.92	175.56	175.54	175.29	175.24	174.91	174.93
Cma	N/A	N/A	175.70	175.70	175.70	175.70	175.70	175.70	175.70	175.70	175.70
Cdo	N/A	N/A	0.19	0.12	0.06	0.05	-0.06	0.09	0.05	0.06	-0.07
Cdma	N/A	N/A	-0.15	-0.63	-0.22	0.01	-0.25	-0.24	-0.30	-0.57	-0.27

**OXYGEN 0 - 25 %**

CALIBRATION GAS VALUE	INITIAL CALIBRATION	CALIBRATION ERROR, % SPAN	POST RUN 1	POST RUN 2	POST RUN 3	POST RUN 4	POST RUN 5	POST RUN 6	POST RUN 7	POST RUN 8	POST RUN 9
4.97	4.77	-0.80	4.88	4.81	4.85	4.88	4.86	4.88	4.89	4.92	4.87
20.90	20.98	0.32	20.98	20.93	20.95	20.96	20.91	20.98	20.99	20.98	21.00
11.90	12.03	0.52	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Co	N/A	N/A	4.83	4.85	4.83	4.87	4.87	4.87	4.89	4.91	4.90
Cm	N/A	N/A	20.98	20.96	20.94	20.96	20.94	20.95	20.99	20.99	20.99
Cma	N/A	N/A	20.90	20.90	20.90	20.90	20.90	20.90	20.90	20.90	20.90
Cmao	N/A	N/A	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Cdo	N/A	N/A	0.44	0.16	0.32	0.44	0.36	0.44	0.48	0.60	0.40
Cdma	N/A	N/A	0.00	-0.20	-0.12	-0.08	-0.28	0.00	0.04	0.00	0.08

# JEA - NGS #5 TURBINE CALIBRATION GAS SUMMARY W/O FOGGERS

## OXIDES OF NITROGEN 0 - 200 ppm

CALIBRATION GAS VALUE	INITIAL CALIBRATION	CALIBRATION ERROR, % SPAN	POST RUN 1	POST RUN 2	POST RUN 3	POST RUN 4	POST RUN 5	POST RUN 6	POST RUN 7	POST RUN 8	POST RUN 9
0.00	0.47	0.24	0.77	0.66	0.66	0.53	0.66	0.66	0.66	0.66	0.54
175.70	176.16	0.23	177.25	177.17	177.36	176.59	176.83	176.35	175.73	175.64	176.03
84.98	84.11	-0.44	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47.60	46.90	-0.35	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Co	N/A	N/A	0.62	0.72	0.66	0.60	0.60	0.66	0.66	0.66	0.60
Cm	N/A	N/A	176.71	177.21	177.27	176.98	176.71	176.59	176.04	175.69	175.84
Cma	N/A	N/A	175.70	175.70	175.70	175.70	175.70	175.70	175.70	175.70	175.70
Cdo	N/A	N/A	0.15	0.10	0.10	0.03	0.10	0.10	0.10	0.10	0.04
Cdma	N/A	N/A	0.55	0.50	0.60	0.22	0.34	0.09	-0.22	-0.26	-0.06

## OXYGEN 0 - 25 %

CALIBRATION GAS VALUE	INITIAL CALIBRATION	CALIBRATION ERROR, % SPAN	POST RUN 1	POST RUN 2	POST RUN 3	POST RUN 4	POST RUN 5	POST RUN 6	POST RUN 7	POST RUN 8	POST RUN 9
4.97	4.92	-0.20	4.87	4.85	4.84	4.82	4.84	4.87	4.84	4.87	4.83
20.90	20.92	0.08	20.73	20.78	20.86	20.75	20.83	20.87	21.00	20.94	20.87
11.90	12.07	0.68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Co	N/A	N/A	4.90	4.86	4.85	4.83	4.83	4.86	4.86	4.86	4.85
Cm	N/A	N/A	20.83	20.76	20.82	20.81	20.79	20.85	20.94	20.97	20.91
Cma	N/A	N/A	20.90	20.90	20.90	20.90	20.90	20.90	20.90	20.90	20.90
Cmao	N/A	N/A	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
Cdo	N/A	N/A	-0.20	-0.28	-0.32	-0.40	-0.32	-0.20	-0.32	-0.20	-0.36
Cdma	N/A	N/A	-0.76	-0.56	-0.24	-0.68	-0.36	-0.20	0.32	0.08	-0.20



For Technical Information Call  
1-800-752-1597



Air Products and Chemicals, Inc. \* 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

# CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: 834 -1  
APCI - GREENVILLE  
101 MOUNTAIN RIDGE DRIVE  
TAYLORS SC 29687

Order No: 833083827-01  
Batch No: 86180527  
PO:  
Release:

Cylinder No: SG9149509BAL  
Bar Code No: FAF784  
Cylinder Pressure\*: 2000 psig  
Certification Date: 03/14/2001  
Expiration Date: 03/14/2004

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
OXYGEN	4.97±.026 %	SG9198967BAL	NTRM 82657X	4.521 %	SERVOMEX 1100	2974C	03/11/01	PARAMAGNETIC

NITROGEN Balance Gas

\* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

EPA PROTOCOL GAS MIXTURE : OXYGEN IN NITROGEN  
To reorder this mixture please use Mix ID: 17830

Analyst:

*Summer Harte*

Approved By:

*James Cross*

101

For Technical Information Call  
1-800-752-1597



Air Products and Chemicals, Inc. \* 12722 S. Wentworth Avenue, Chicago, IL 60628

ISO CERTIFICATION: 9002

# CERTIFICATE OF ANALYSIS: EPA PROTOCOL GAS STANDARD

PERFORMED ACCORDING TO EPA TRACEABILITY PROTOCOL FOR ASSAY AND CERTIFICATION OF GASEOUS CALIBRATION STANDARDS (PROCEDURE #G1)

Customer: 239 -1  
APCI  
2710 BROADWAY  
CAMDEN

NJ 08104-

Order No: SRP545682-06  
Batch No: 86173889  
PO:  
Release:

Cylinder No: SG9162947BAL  
Bar Code No: DUK577  
Cylinder Pressure\*: 2000 psig  
Certification Date: 09/22/2000  
Expiration Date: 09/22/2003

CERTIFIED CONCENTRATION		REFERENCE STANDARDS			ANALYTICAL INSTRUMENTATION			
Component	Certified Concentration	Cylinder Number	Standard Type	Standard Concentration	Instrument Make/Model	Serial Number	Last Calibration	Measurement Principal
OXYGEN	11.9±0.06 %	SG909740ALB	NTRM	16.04 %	SERVOMEX 1100	2974C	09/11/00	PARAMAGNETIC

NITROGEN Balance Gas

\* STANDARD SHOULD NOT BE USED BELOW 150 PSIG

To reorder this mixture please use Mix ID: 20348

Analyst: \_\_\_\_\_

  
WOLLY HALLIBOURN

Approved By: \_\_\_\_\_

  
TAMM LAMM

# Airgas

Specialty Gases

3 Hamilton Blvd.  
Theodore, AL 36582

P.O. Box 190969  
Mobile, AL 36619

Phone: (334) 653-2500  
FAX: (334) 653-2530

## Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No :	<u>CC118407</u>	Order No.	<u>383678</u>
Cylinder Pressure:	<u>2000PSIG</u>	Expiration Date:	<u>4/3/02</u>
Certification Date	<u>4/3/00</u>	Laboratory:	<u>ASG-MOBILE</u>

### Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
NTRM81687	NITRIC OXIDE	CC50049	980PPM

### Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
ECOPhysics/CLD700EL/72411	Chemiluminescence

Analytical Methodology does not require correction for analytical interferences.

### Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
NITRIC OXIDE	173.8 PPM	+/-1%	G1
NOX	175.7 PPM		
NITROGEN	Balance		

### Analytical Results:

#### 1st Component:

#### NITRIC OXIDE

1st Analysis Date: 3/27/00

R	<u>981.0</u>	S	<u>174.0</u>	Z	<u>0.000</u>	Conc	<u>173.8</u>
S	<u>175.0</u>	Z	<u>0.000</u>	R	<u>981.0</u>	Conc	<u>174.8</u>
Z	<u>0.000</u>	R	<u>978.0</u>	S	<u>173.0</u>	Conc	<u>173.4</u>
						AVG:	<u>174.0</u>

2nd Analysis Date: 4/3/00

R	<u>980.0</u>	S	<u>174.0</u>	Z	<u>0.000</u>	Conc	<u>174.0</u>
S	<u>174.0</u>	Z	<u>0.000</u>	R	<u>981.0</u>	Conc	<u>173.8</u>
Z	<u>0.000</u>	R	<u>980.0</u>	S	<u>173.0</u>	Conc	<u>173.0</u>
						AVG:	<u>173.6</u>

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

Do not use cylinder below 150 psig.

*Bridget M. Richardson*  
Approved for Release



3434 Route 22 West • Branchburg, NJ 08876 USA Tel: (908) 252-9300 • (800) 932-0624 • Fax: (908) 252-0811

Website: <http://www.spectra-gases.com>

**CERTIFICATE OF ANALYSIS**

**EPA PROTOCOL MIXTURE  
PROCEDURE #: G1**

**CUSTOMER:** Ameristeel Corporation  
**SGI ORDER #:** 159773  
**ITEM#:** 1  
**P.O.#:** 10100001

**CYLINDER #:** CC90809  
**CYLINDER PRES:** 2000 PSIG  
**CGA OUTLET:** 660

**CERTIFICATION DATE:** 10/11/2000  
**EXPIRATION DATE:** 10/11/2002

**CERTIFICATION HISTORY**

COMPONENT	DATE OF ASSAY	MEAN CONCENTRATION	CERTIFIED CONCENTRATION	ANALYTICAL ACCURACY
Nitric Oxide	08/23/2000	47.48 ppm	47.6 ppm	+/- 1%
NOx	10/11/2000	47.63 ppm	47.6 ppm	Reference Value Only

**BALANCE** Nitrogen

**PREVIOUS CERTIFICATION DATES:** None

**REFERENCE STANDARDS**

COMPONENT	SRM/NTRM#	CYLINDER#	CONCENTRATION
Nitric Oxide	NTRM-81684	CC79983	98.6 ppm

**INSTRUMENTATION**

COMPONENT	MAKE/MODEL	SERIAL #	DETECTOR	CALIBRATION DATE(S)
Nitric Oxide	Teco 10	10AR-34979-249	Chemf	09/15/2000

THIS STANDARD WAS CERTIFIED ACCORDING TO THE EPA PROTOCOL PROCEDURES.  
 DO NOT USE THIS STANDARD IF THE CYLINDER PRESSURE IS LESS THAN 150 PSIG.

**ANALYST:** FRED PIKULA

**DATE:** 10/11/2000

# Airgas

Specialty Gases

Hamilton Blvd.  
Theodore, AL 36582

P.O. Box 190969  
Mobile, AL 36619

Phone: (334) 653-2500  
FAX: (334) 653-2530

## Certificate of Analysis: E.P.A. Protocol Gas Mixture

Cylinder No :	<u>CC13859</u>	Order No.	<u>383678</u>
Cylinder Pressure:	<u>2000PSIG</u>	Expiration Date:	<u>4/4/02</u>
Certification Date	<u>4/4/00</u>	Laboratory:	<u>ASG-MOBILE</u>

### Reference Standard Information:

<u>Type</u>	<u>Component</u>	<u>Cyl. Number</u>	<u>Concentration</u>
NTRM81684	NITRIC OXIDE	CC66785	96.9PPM

### Instrumentation:

<u>Instrument/Model/Serial No.</u>	<u>Analytical Principle</u>
ECOPhysics/CLD700EL/72411	Chemiluminescence

Analytical Methodology does not require correction for analytical interferences.

### Certified Concentrations:

<u>Component</u>	<u>Concentration</u>	<u>Accuracy</u>	<u>Procedure</u>
NITRIC OXIDE	84.98 PPM	+/-1%	G1
NOX	84.98 PPM		
NITROGEN	Balance		

### Analytical Results:

#### 1st Component:

#### NITRIC OXIDE

1st Analysis Date: 3/23/00

R	<u>96.90</u>	S	<u>85.20</u>	Z	<u>0.000</u>	Conc	<u>85.20</u>
S	<u>85.00</u>	Z	<u>0.000</u>	R	<u>97.00</u>	Conc	<u>84.91</u>
Z	<u>0.000</u>	R	<u>96.90</u>	S	<u>85.00</u>	Conc	<u>85.00</u>
						AVG:	<u>85.04</u>

2nd Analysis Date: 4/4/00

R	<u>96.80</u>	S	<u>84.80</u>	Z	<u>0.000</u>	Conc	<u>84.89</u>
S	<u>84.90</u>	Z	<u>0.000</u>	R	<u>96.90</u>	Conc	<u>84.90</u>
Z	<u>0.000</u>	R	<u>96.70</u>	S	<u>84.80</u>	Conc	<u>84.98</u>
						AVG:	<u>84.92</u>

Certification performed in accordance with "EPA Traceability Protocol (Sept. 1997)" using the assay procedures listed.

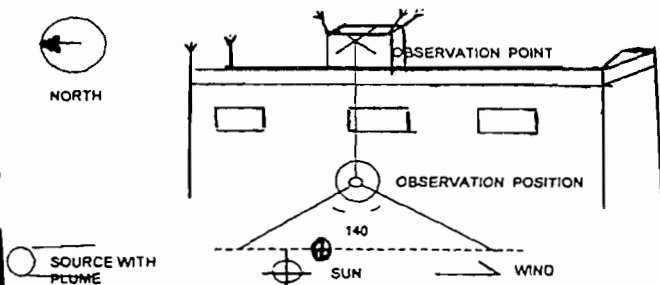
Do not use cylinder below 150 psig.

Bridget M. Richardson  
Approved for Release

**APPENDIX C**  
**VISIBLE EMISSIONS**

T S I	TECHNICAL SERVICES, INC 2901 DANESE STREET JACKSONVILLE, FLORIDA 32206 OFFICE 904 - 353 - 5761 FAX 904 - 358 - 2908			PAGE 1 OF 1		START TIME 1405				END TIME 1505			
	OBSERVATION DATE 23 MAY 01			TIME ZONE EST									
	SEC/MN	0	15	30	45	SEC/MN	0	15	30	45			
	FACILITY JACKSONVILLE ELECTRIC AUTHORITY		1		0		0		0		0		
SOURCE C.T.5		2		0		0		0		0			
ADDRESS NORTHSIDE GENERATING STATION		3		0		0		0		0			
CITY JACKSONVILLE STATE-ZIP FL		4		0		0		0		0			
PHONE SOURCE ID NO.		5		0		0		0		0			
PROCESS OPERATING MODE NORMAL		6		0		0		0		0			
CONTROL EQUIP. OPERATING MODE IN USE		7		0		0		0		0			
DESCRIBE EMISSION POINT SQUARE STACK, GRAY IN COLOR ~6' X 6' IN SIZE		8		0		0		0		0			
		9		0		0		0		0			
HEIGHT OF EMISSION POINT		10		0		0		0		0			
START ~45' END SAME		11		0		0		0		0			
HEIGHT RELATIVE TO OBSERVER,		12		0		0		0		0			
START ~6' END SAME		13		0		0		0		0			
DISTANCE TO EMISSIONS POINT		14		0		0		0		0			
START ~60' END SAME		15		0		0		0		0			
DIRECTION TO EM. PT.		16		0		0		0		0			
START ~240° END SAME		17		0		0		0		0			
VERTICAL ANGLE TO OBS. PT.		18		0		0		0		0			
START ~10° END SAME		19		0		0		0		0			
DESCRIBE EMISSIONS		20		0		0		0		0			
START CLEAR (HEAT VAPORS) END SAME		21		0		0		0		0			
EMISSION COLOR		22		0		0		0		0			
START CLEAR END SAME		23		0		0		0		0			
WATER DROPLET PLUME YES (NO)		24		0		0		0		0			
ATTACHED DETACHED		25		0		0		0		0			
DESCRIBE PLUME BACKGROUND		26		0		0		0		0			
START SKY END SAME		27		0		0		0		0			
BACKGROUND COLOR		28		0		0		0		0			
START BLUE END SAME		29		0		0		0		0			
SKY CONDITION		30		0		0		0		0			
START CLEAR END SAME		31		0		0		0		0			
WIND SPEED		32		0		0		0		0			
START 6-12 MPH END SAME		33		0		0		0		0			
WIND DIRECTION		34		0		0		0		0			
START NORTH END SAME		35		0		0		0		0			
AMBIENT TEMPERATURE		36		0		0		0		0			
START 88 END		37		0		0		0		0			
WET BULB TEMP		38		0		0		0		0			
70		39		0		0		0		0			
%RH		40		0		0		0		0			
40		41		0		0		0		0			
COMMENTS.....		42		0		0		0		0			
		43		0		0		0		0			
		44		0		0		0		0			
		45		0		0		0		0			
		46		0		0		0		0			
		47		0		0		0		0			
		48		0		0		0		0			
		49		0		0		0		0			
		50		0		0		0		0			
		51		0		0		0		0			
		52		0		0		0		0			
		53		0		0		0		0			
		54		0		0		0		0			
		55		0		0		0		0			
		56		0		0		0		0			
		57		0		0		0		0			
		58		0		0		0		0			
		59		0		0		0		0			
		60		0		0		0		0			

SOURCE LAYOUT SKETCH



HIGHEST OPACITY FOR HIGHEST PERIOD: 0%

OBSERVER'S NAME (PRINT) *BRENDA L. JOHNSON*

SIGNATURE *Brenda L. Johnson* DATE 23 May 01

ORGANIZATION TECHNICAL SERVICES, INC.

CERTIFIED BY ETA

**TECHNICAL SERVICES, INC.**  
**ENVIRONMENTAL CONSULTANTS**

June 27, 2001

Mr. Joseph W. Werner, P.E.  
Jacksonville Electric Authority  
21 West Church Street  
Jacksonville, FL 32202-3139

Dear Mr. Werner:

The following is the Certificate Number for Brenda Johnson whom performed a Visible Emissions test at the Northside Generating Station #5 dated May 23, 2001; # 286722. I have been in contact with Eastern Technical Associates and the certificates were mailed to us on June 26, 2001 and we have not yet received them. They do not keep copies of these certificates but were able to provide me with the certificate number.

If you have any questions regarding this matter please feel free to contact me at (904) 353-5761.

Sincerely,



Debra F. Saller  
Executive Assistant



**APPENDIX D**  
**PROCESS DATA**

4377 Heckscher Drive  
Jacksonville, Florida 32226-3099

06/26/01



Mr. Harvey C. Gray, President  
Technical Services, Inc.  
2901 Danese Street  
Jacksonville, FL 32206

Dear Sir,

#2FO environmental VE/EPA9 testing was conducted on JEA Northside Generating Station, Combustion Turbine #5 (NCT5) on 5/23/01.

The unit operational data for these tests is as follows:

	EPA9/VE	
MWe(socc)	49.21	
Comp In DEGF	88.26	
H2O gpm	0.00	
#2FO gpm	79.07	
BTU/gal - HHV	138555	
MMBTU/hr	6.573E+08	
Start	5/23/01 2:05 PM	EST
Finish	5/23/01 3:05 PM	EST

To the best of my knowlege, this information is true and accurate.

Sincerely,

A handwritten signature in cursive script that reads 'Joseph W. Werner'.

Joseph W. Werner, PE

## Fuel Analysis Report

Sample Number	01-0220	Sample Type	Fuel2
Station/Unit	NCT 5	Description	NCT 5
Sample Date	23-May-01	Sample Time	1:00 PM

BTU per LB	19,326
BTU per GALLON:	138,555
BTU PER BARRELL:	5,824,895
Ash %	
Asphaltenes %	
Sulfur %	0.0
Specific Gravity	0.8617
Water %	
Viscosity 210 SUS:	
Viscosity 122 SUS:	
Desired Burner Temp @ 135F:	
Desired Burner Temp @ 85F:	
Carbon %	86.49
Hydrogen %	13.16
Nitrogen %	
Oxygen %:	
Vanadium PPM	

Report Comments:

Reported by: C.JACKSON

Approval Date:6/7/01

Central Laboratory

Thursday, June 07, 2001

JEA NCT5  
2001 VE/EPA9

		RUN #	w/o FOGGER
JEA Northside Generating Station	MWe(socc)		49.21
Combustion Turbine #5 (JEA NCT5)	Comp In DEGF		88.26
Annual EPA9 Environmental Testing	H2O gpm		0.00
#2FO 5/23/01			
	#2FO gpm		79.07
	BTU/gal - HHV		138555
	MMBTU/hr		6.573E+08
			AVERAGE
	Start	5/23/01 2:05 PM	EST
	Finish	5/23/01 3:05 PM	EST
ps:nct5:A1a10_Exh_1	EGT #01	deg F	999.6224365
ps:nct5:A1a10_Exh_10	EGT #07	deg F	1009.693176
ps:nct5:A1a10_Exh_11	EGT #08	deg F	999.0946045
ps:nct5:A1a10_Exh_3	EGT #02	deg F	968.4177856
ps:nct5:A1a10_Exh_5	EGT #03	deg F	982.4246216
ps:nct5:A1a10_Exh_6	EGT #04	deg F	982.4414063
ps:nct5:A1a10_Exh_8	EGT #05	deg F	991.3942871
ps:nct5:A1a10_Exh_9	EGT #06	deg F	972.2629395
ps:nct5:A1a11_Bearing_1	Turb Bearing #1 Oil Drain	deg F	157.6360931
ps:nct5:A1a11_Bearing_2	Turb Bearing #2 Oil Drain	deg F	192.468338
ps:nct5:A1a11_Bearing_3	Turb Bearing #3 Oil Drain	deg F	165.7512512
ps:nct5:A1a11_Exh_13	EGT #09	deg F	992.0949707
ps:nct5:A1a11_Exh_14	EGT #10	deg F	991.2526245
ps:nct5:A1a11_Exh_16	EGT #11	deg F	992.3178101
ps:nct5:A1a11_Exh_18	EGT #12	deg F	986.7838745
ps:nct5:A1a11_Ws_2_ao2	2nd Stage Aft Outer 2	deg F	758.3977051
ps:nct5:A1a12_Bypass_vlv	Fuel Valve Actual Position	%	72
ps:nct5:A1a12_Cdp	PCD (Pressure - Compressor	psig	119.9320221
ps:nct5:A1a12_Spare_2	Spare 0-5VDC input	psig	0
ps:nct5:A1a12_Spare_8	Spare 0-5VDC input	psig	0
ps:nct5:A1a13_Gen_f_volt	Generator Field Voltage	Volts	169.202774
ps:nct5:A1a13_Spare_5	Spare 0-10VDC input	psig	0
ps:nct5:A1a13_Spare_6	Spare 0-10VDC input	psig	0
ps:nct5:A1a13_Spare_7	Spare 0-10VDC input	psig	0
ps:nct5:A1a13_Spare_8	Spare 0-10VDC input	psig	0
ps:nct5:A1a16_Flm_int_7	Flame #7 Intensity	%	107
ps:nct5:A1a16_Flm_int_8	Flame #8 Intensity	%	100
ps:nct5:A1a16_F_pmp_prs	Fuel Pump Discharge Pressu	psi	-247

JEA NCT5  
2001 VE/EPA9

ps:nct5:A1a16_F_suc_prs	Fuel Pump Suction Pressure	psig	64.59601593
ps:nct5:A1a6_Ws_1_ao1	1st Stage Aft Outer 1 Temp	deg F	920.8251343
ps:nct5:A1a6_Ws_1_ao2	1st Stage Aft Outer 2 Temp	deg F	954.140564
ps:nct5:A1a6_Ws_1_fi1	1st Stage Forward Inner 1	deg F	662.5474854
ps:nct5:A1a6_Ws_1_fi2	1st Stage Forward Inner 2	deg F	738.5070801
ps:nct5:A1a6_Ws_2_ao1	2nd Stage Aft Outer 1 Temp	deg F	775.4281006
ps:nct5:A1a6_Ws_2_fo1	2nd Stage Forward Outer 2	deg F	325.7345886
ps:nct5:A1a6_Ws_2_fo2	2nd Stage Forward Outer 1	deg F	850.8980103
ps:nct5:A1a6_Ws_3_ao1	3rd Stage Aft Outer 1 Temp	deg F	573.6924438
ps:nct5:A1a6_Ws_3_ao2	3rd Stage Aft Outer 2 Temp	deg F	594.2249146
ps:nct5:A1a7_Cdt_1	Compressor Discharge Tempe	deg F	612.3084717
ps:nct5:A1a7_Cdt_2	Compressor Discharge Tempe	deg F	621.1154175
ps:nct5:A1a7_Cit_1	Compressor Inlet Temperatu	deg F	83.84008026
ps:nct5:A1a7_Gen_bear_a	Generator Bearing Aft Oil	deg F	162.6508331
ps:nct5:A1a7_Gen_bear_f	Generator Bearing Forward	deg F	164.7720795
ps:nct5:A1a7_Ws_3_fo1	3rd Stage Forward Inner 1	deg F	978.1147461
ps:nct5:A1a7_Ws_3_fo2	3rd Stage Forward Inner 2	deg F	896.5072021
ps:nct5:A1a9_Bear_3_tmp	#3 Bearing Temperature	deg F	591.848938
ps:nct5:A1a9_Cit_2	Compressor Inlet Temperatu	deg F	88.264328
ps:nct5:A1a9_Exh_12	EGT #16	deg F	994.3143311
ps:nct5:A1a9_Exh_15	EGT #17	deg F	999.3395996
ps:nct5:A1a9_Exh_17	EGT #18	deg F	990.4703979
ps:nct5:A1a9_Exh_2	EGT #13	deg F	959.321228
ps:nct5:A1a9_Exh_4	EGT #14	deg F	968.6609497
ps:nct5:A1a9_Exh_7	EGT #15	deg F	980.3659058
ps:nct5:A2a11_Spare_6	Spare MA Input	ma	-73
ps:nct5:A2a7_Aa_oil_tmp	Atomizing Air Oil Temperat	psig	1571
ps:nct5:A2a7_Aa_pre_tmp	Atomizing Air Pre Cooler T	psig	1572
ps:nct5:A2a7_L_o_head_t	Lube Oil Header Temp	psig	1570
ps:nct5:A2a7_L_o_res_t	Lube Oil Reservoir Temp	psig	1571
ps:nct5:A2a7_Spare_5	Spare T/C Input	psig	1571
ps:nct5:A2a7_Spare_6	Spare T/C Input	psig	1571
ps:nct5:A2a7_Spare_7	Spare T/C Input	psig	1569
ps:nct5:A2a7_Spare_8	Spare T/C Input	psig	1572
ps:nct5:A2a8_Aa_oil_prs	AA Oil Pressure	psig	-29
ps:nct5:A2a8_C6_fog_tmp	Fog Skid Temperature	deg F	84.06999969
ps:nct5:A2a8_C7_fog_hum	Fog Skid Humidity	%	33.18841171
ps:nct5:A2a8_C8_fog_flo	Fog Skid Water Flow	gal/min	0
ps:nct5:A2a8_Spare_2	Spare MA Input	psig	-24
ps:nct5:A2a8_Spare_3	Spare MA Input	psig	-24
ps:nct5:A2a8_Spare_4	Spare MA Input	psig	-24
ps:nct5:A2a8_Spare_5	Spare MA Input	psig	-24
ps:nct5:Al_Halt_time	Halt Timer Seconds	sec	180
ps:nct5:Al_Trn_gr_wd	Turning Gear Clutch Timer	Seconds	60
ps:nct5:Al_Wd10_time	Turning Gear Clutch Timer	Seconds	60
ps:nct5:Al_Wd14_time	Halt Timer Preset	sec	180
ps:nct5:Egt_Bse_Id_alm	EGT Average High Alarm Set	deg F	1062.736328
ps:nct5:Egt_Ref_p_20	EGT Average High Trip Setp	deg F	1082.736328
ps nct5:Fuel_Bumpless	Fuel Flow Required - Setpo	GPM	150

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ps:nct5:Fuel_Egt_d_pid	EGT Derivative Control PID	%	101
ps:nct5:Fuel_Flow_cont	Fuel Flow Control PID	%	101
ps:nct5:Fuel_Fuel_flow	Fuel Flow	GPM	79.06504822
ps:nct5:Fuel_Spd_d_cnt	Speed Derivative Control P	%	101
ps:nct5:Fuel_Warm_comp	Warm Up Timer	Seconds	0
ps:nct5:Fuel_Wd13_time	Warm Up Timer Setpoint	Seconds	60
ps:nct5:Gen_tc_Air1_lag	Generator Air Temp #1	deg F	85.87316132
ps:nct5:Gen_tc_Air2_lag	Generator Air Temp #2	deg F	86.14465332
ps:nct5:Gen_tc_Cit_avg	Comp Inlet Tem Average	sec	86.02825165
ps:nct5:Gen_tc_Coil1_lag	Generator Coil Temp #1	deg F	180.9095764
ps:nct5:Gen_tc_Coil2_lag	Generator Coil Temp #2	deg F	172.5462646
ps:nct5:Gen_tc_Coil3_lag	Generator Coil Temp #3	deg F	182.9539185
ps:nct5:Gen_tc_Coil4_lag	Generator Coil Temp #4	deg F	171.1335449
ps:nct5:Gen_tc_Coil5_lag	Generator Coil Temp #5	deg F	179.0560455
ps:nct5:Gen_tc_Coil_temp	Generator Coil High Temper	Deg F	192.5877533
ps:nct5:Gen_tc_Gc_avg	Generator Coil Avg Temp	deg F	177.3712921
ps:nct5:ldt_A_dummy	Thrust Bearing Shutdown Se	mils	0
ps:nct5:ldt_A_vib_mul	Atomizing Air Skid Vibrati	mils	0.400083333
ps:nct5:ldt_B1al_x_vib	Bearing #1 X Vibration Ala	mils	5
ps:nct5:ldt_B1al_y_vib	Bearing #1 Y Vibration Ala	mils	5
ps:nct5:ldt_B1sd_x_vib	Bearing #1 X Vibration Shu	mils	9
ps:nct5:ldt_B1sd_y_vib	Bearing #1 Y Vibration Shu	mils	7
ps:nct5:ldt_B1_vib_x	Bearing #1 X Vibration	mils	1.923895597
ps:nct5:ldt_B1_vib_y	Bearing #1 Y Vibration	mils	0.838667214
ps:nct5:ldt_B2al_x_vib	Bearing #2 X Vibration Ala	mils	5
ps:nct5:ldt_B2al_y_vib	Bearing #2 Y Vibration Ala	mils	5
ps:nct5:ldt_B2sd_x_vib	Bearing #2 X Vibration Shu	mils	7
ps:nct5:ldt_B2sd_y_vib	Bearing #2 Y Vibration Shu	mils	7
ps:nct5:ldt_B2_vib_x	Bearing #2 X Vibration	mils	2.717858791
ps:nct5:ldt_B2_vib_y	Bearing #2 Y Vibration	mils	2.093788862
ps:nct5:ldt_B3al_x_vib	Bearing #3 X Vibration Ala	mils	5
ps:nct5:ldt_B3al_y_vib	Bearing #3 Y Vibration Ala	mils	5
ps:nct5:ldt_B3sd_x_vib	Bearing #3 X Vibration Shu	mils	12
ps:nct5:ldt_B3sd_y_vib	Bearing #3 Y Vibration Shu	mils	12
ps:nct5:ldt_B3_vib_x	Bearing #3 X Vibration	mils	2.353093147
ps:nct5:ldt_B3_vib_y	Bearing #3 Y Vibration	mils	2.859451294
ps:nct5:ldt_B4al_x_vib	Bearing #4 X Vibration Ala	mils	5
ps:nct5:ldt_B4al_y_vib	Bearing #4 Y Vibration Ala	mils	5
ps:nct5:ldt_B4sd_x_vib	Bearing #4 X Vibration Shu	mils	7
ps:nct5:ldt_B4sd_y_vib	Bearing #4 Y Vibration Shu	mils	7
ps:nct5:ldt_B4_vib_x	Bearing #4 X Vibration	mils	1.532155514
ps:nct5:ldt_B4_vib_y	Bearing #4 Y Vibration	mils	1.148944497
ps:nct5:ldt_B5al_x_vib	Bearing #5 X Vibration Ala	mils	5
ps:nct5:ldt_B5al_y_vib	Bearing #5 Y Vibration Ala	mils	5
ps:nct5:ldt_B5sd_x_vib	Bearing #5 X Vibration Shu	mils	7
ps:nct5:ldt_B5sd_y_vib	Bearing #5 Y Vibration Shu	mils	7
ps:nct5:ldt_B5_vib_x	Bearing #5 X Vibration	mils	0.628013909
ps:nct5:ldt_B5_vib_y	Bearing #5 Y Vibration	mils	0.886781871
ps:nct5:ldt_Egt_sp_c	EGT Setpoint	deg F	986.4890747

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ps:nct5:ldt_Egt_vlv_c	EGT Control PID	%	73
ps:nct5:ldt_Ep_dv_mul	EGT Derivative Setpoint	degF/sec	5
ps:nct5:ldt_E_der_mul	EGT Derivative (Actual)	degF/sec	0.100571036
ps:nct5:ldt_L_o_head	Lube Oil Header Pressure	psi	28.07474327
ps:nct5:ldt_Maxmw_10	Maximum Megawatts	MW	70.19999695
ps:nct5:ldt_Minmw_10	Minimum Megawatts	MW	15
ps:nct5:ldt_Mvar_10	Load - MegaVARs	MVAR	6.717291832
ps:nct5:ldt_Mw_10	Load - Megawatts	MW	49.21154404
ps:nct5:ldt_Sp_dv_mul	Speed Derivative Setpoint	RPM/sec	8
ps:nct5:ldt_S_der_mul	Speed Derivative	RPM/sec	0
ps:nct5:ldt_Thral_vib	Thrust Bearing Alarm Setpo	mils	0
ps:nct5:ldt_Thr_vib	Thrust Bearing Vibration	mils	-12.39999962
ps:nct5:iorate	NGS CT5 PI Interface I/O R		2445.888672
ps:nct5:Sdn_Crnk_wd	Cranking Motor Timer	Seconds	90
ps:nct5:Sdn_FI_stp_wd	Fuel Stop Vavle Timer	Seconds	25
ps:nct5:Sdn_Lo_wd	AC Lube Oil Pump Watchdog	sec	60
ps:nct5:Sdn_Wd11_time	Cranking Motor Timer Setpo	Seconds	90
ps:nct5:Sdn_Wd12_time	Fuel Stop Vavle Timer Setp	Seconds	25
ps:nct5:Sdn_Wd18_time	AC Lube Oil Pump Watchdog	sec	60
ps:nct5:Seq_cltch_Strtr_wd	Starting Motor Watchdog Ti	Seconds	1200
ps:nct5:Seq_cltch_Wd6_tim	Starting Motor Watchdog Ti	Seconds	1200
ps:nct5:Seq_Cmp_seq_wd	Incomplete Sequence Timer	Seconds	1200
ps:nct5:Seq_dc_pmp_Dc_p	DC Lube Oil Pump Watchdog	Seconds	60
ps:nct5:Seq_dc_pmp_Off_ti	Battery Saver Off Timer	seconds	900
ps:nct5:Seq_dc_pmp_On_ti	Battery Saver On Timer	seconds	180
ps:nct5:Seq_dc_pmp_Wd3	Battery Saver On Timer Set	seconds	180
ps:nct5:Seq_dc_pmp_Wd4	Battery Saver Off Timer Se	seconds	900
ps:nct5:Seq_dc_pmp_Wd9	DC Lube Oil Pump Watchdog	Seconds	60
ps:nct5:Seq_ign_ign_tmr	Flame Detected Timer	Seconds	60
ps:nct5:Seq_ign_Purge	Purge Timer	Seconds	0
ps:nct5:Seq_ign_Wd4_time	Purge Timer Setpoint	Seconds	30
ps:nct5:Seq_ign_Wd5_time	Flame Detected Timer Setpo	Seconds	60
ps:nct5:Seq_Mtr_cooldn	Starter Motor Cooldown Tim	seconds	0
ps:nct5:Seq_pumps_Cooldo	Cooldown Timer	Minutes	2880
ps:nct5:Seq_pumps_Timer_	Daily Oil Pump Run Timer	seconds	3600
ps:nct5:Seq_pumps_Timer_	Time to Next Oil Pump Run	minutes	1380
ps:nct5:Seq_pumps_Wd17_	Time to Next Oil Pump Run	minutes	1380
ps:nct5:Seq_pumps_Wd18_	Daily Oil Pump Run Timer S	seconds	3600
ps:nct5:Seq_pumps_Wd8_ti	Cooldown Timer Setpoint	Minutes	2880
ps:nct5:Seq_Wd1_time	Incomplete Sequence Timer	Seconds	1200
ps:nct5:Seq_Wd2_time	Starter Motor Cooldown Tim	seconds	300
ps:nct5:Speed_Droop_sp	Turbine Speed Setpoint	RPM	3778.289795
ps:nct5:Speed_Load_speed	Droop Speed	RPM	3741.795166
ps:nct5:Speed_Run_down	Run Down Timer	Seconds	600
ps:nct5:Speed_Speed_rpm	Turbine Speed (MPU HSS)	RPM	3599.815186
ps:nct5:Speed_Turb_pid	Speed Control PID	%	73.10310364
ps:nct5:Speed_Wd7_time	Run Down Timer Setpoint	Seconds	600
ps:nct5:Start_Recls_tmr	Generator Breaker Reclosur	Seconds	0
ps:nct5:Start_Wd15_time	Generator Breaker Reclosur	Seconds	30

JEA NCT5  
2001 VE/EPA9

ps:nct5:Tc_mn_Egt_avg	EGT Average	deg F	986.6376343
ps:nct5:Tc_mn_Spread	EGT Maximum Spread	deg F	49.98141861
ps:nct5:Water_fog_Depress	Water Fog Depressioent Temp	deg F	19.20083427
ps:nct5:Water_fog_Over_co	Fog Injection Cooling Setp	Deg F	0
ps:nct5:Water_fog_Wbd_eff	Fog Injection Wet Bulb Dep	%	0
ps:nct5:Water_fog_Wet_tm	Water Fog Wet Temperature	deg F	64.17055511



PROCESS WEIGHT CERTIFICATION

Technical Services, Inc.  
2901 Danese Street  
Jacksonville, FL 32206  
(904) 353-5761 FAX: (904) 359-2908

COMPANY: JACKSONVILLE ELECTRIC AUTHORITY  
FACILITY: NORTHSIDE GENERATING STATION DATE: 23 MAY 01  
ADDRESS: JACKSONVILLE FL  
MAILING ADDRESS: \_\_\_\_\_  
SOURCE IDENTIFICATION: \_\_\_\_\_  
PERMITTED PROCESS RATE: \_\_\_\_\_  
METHOD USED TO DETERMINE PROCESS WEIGHT: \_\_\_\_\_

TEST RUN #	TEST TIME	PROCESS WEIGHT RATE*	TOTAL
<u>1</u>	<u>1405-1505</u>	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
Average Process Rate			_____

NOTE: \_\_\_\_\_  
\_\_\_\_\_

- \* 1. Report process rate in same terms as permit.
- 2. For phosphate process expresses as actual tons/hour and tons of P<sub>2</sub>O<sub>5</sub>/hour.
- 3. For fossil fuel steam generators expressed as BTU/hour heat input.
- 4. For sulfuric acid plants expressed as 100% H<sub>2</sub>SO<sub>4</sub>/hour.

I certify that the above statement is true to the best of my knowledge and belief.

Certifier's Name (Printed) \_\_\_\_\_ Phone: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_

4377 Heckscher Drive  
Jacksonville, Florida 32226-3099

06/26/01



Mr. Harvey C. Gray, President  
Technical Services, Inc.  
2901 Danese Street  
Jacksonville, FL 32206

Dear Sir;

#2FO environmental NOx testing was conducted on JEA Northside Generating Station, Combustion Turbine #5 (NCT5) on 5/22 - 23/01.

This testing was conducted with and without the inlet fogger system in operation.

The unit operational data for these tests is as follows:

RUN #	with FOGGER		w/o FOGGER
MWe(socc)	49.38		49.29
Comp In DEGF	80.39		87.23
H2O gpm	17.25		0.00
#2FO gpm	80.26		79.19
BTU/gal - HHV	138646		138555
MMBTU/hr	6.676E+08		6.583E+08
Start	5/22/01 3:02 PM	EST	5/23/01 12:28 PM
Finish	5/22/01 7:00 PM	EST	5/23/01 4:55 PM

To the best of my knowlege, this information is true and accurate.

Sincerely,

Joseph W. Werner, PE

JEA NCT5  
INLET FOGGER NOx  
ENVIRONMENTAL TEST

		RUN #	with FOGGER	w/o FOGGER
JEA Northside Generating Station		MWe(socc)	49.38	49.29
Combustion Turbine #5 (JEA NCT5)		Comp In DEGF	80.39	87.23
Inlet Fogger Acceptance Testing		H2O gpm	17.25	0.00
#2FO 5/22 - 23/01				
		#2FO gpm	80.26	79.19
		BTU/gal - HHV	138646	138555
		MMBTU/hr	6.676E+08	6.583E+08
			AVERAGE	AVERAGE
		Start	5/22/01 3:02 PM	5/23/01 12:28 PM
		Finish	5/22/01 7:00 PM	5/23/01 4:55 PM
ps:nct5:A1a10_Exh_1	EGT #01	deg F	996.1085815	999.1766357
ps:nct5:A1a10_Exh_10	EGT #07	deg F	1006.111755	1009.610901
ps:nct5:A1a10_Exh_11	EGT #08	deg F	1002.235535	999.0467529
ps:nct5:A1a10_Exh_3	EGT #02	deg F	964.1496582	967.5976563
ps:nct5:A1a10_Exh_5	EGT #03	deg F	981.4093628	982.618103
ps:nct5:A1a10_Exh_6	EGT #04	deg F	982.5697632	983.5715332
ps:nct5:A1a10_Exh_8	EGT #05	deg F	993.664856	992.4213867
ps:nct5:A1a10_Exh_9	EGT #06	deg F	974.237854	971.7468872
ps:nct5:A1a11_Bearing_1	Turb Bearing #1 Oil Drain	deg F	164.3043976	155.9812927
ps:nct5:A1a11_Bearing_2	Turb Bearing #2 Oil Drain	deg F	198.0991364	190.6855011
ps:nct5:A1a11_Bearing_3	Turb Bearing #3 Oil Drain	deg F	173.3245087	163.298233
ps:nct5:A1a11_Exh_13	EGT #09	deg F	994.3669434	992.1119995
ps:nct5:A1a11_Exh_14	EGT #10	deg F	992.0344849	990.2407837
ps:nct5:A1a11_Exh_16	EGT #11	deg F	990.5820923	991.4028931
ps:nct5:A1a11_Exh_18	EGT #12	deg F	981.0012817	984.6778564
ps:nct5:A1a11_Ws_2_ao2	2nd Stage Aft Outer 2	deg F	743.9993286	750.5685425
ps:nct5:A1a12_Bypass_vlv	Fuel Valve Actual Position	%	72.75101471	72.06351471
ps:nct5:A1a12_Cdp	PCD (Pressure - Compressor	psig	120.3712234	119.865448
ps:nct5:A1a12_Spare_2	Spare 0-5VDC input	psig	0	0
ps:nct5:A1a12_Spare_8	Spare 0-5VDC input	psig	0	0
ps:nct5:A1a13_Gen_f_volt	Generator Field Voltage	Volts	190.2273712	170.3039398
ps:nct5:A1a13_Spare_5	Spare 0-10VDC input	psig	0	0
ps:nct5:A1a13_Spare_6	Spare 0-10VDC input	psig	0	0
ps:nct5:A1a13_Spare_7	Spare 0-10VDC input	psig	0	0
ps:nct5:A1a13_Spare_8	Spare 0-10VDC input	psig	0	0
ps:nct5:A1a16_Flm_int_7	Flame #7 Intensity	%	108	107
ps:nct5:A1a16_Flm_int_8	Flame #8 Intensity	%	101	100
ps:nct5:A1a16_F_pmp_prs	Fuel Pump Discharge Pressu	psi	-247	-246.9989319

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JEA NCT5  
INLET FOGGER NOx  
ENVIRONMENTAL TEST

ps:nct5:A1a16_F_suc_prs	Fuel Pump Suction Pressure	psig	64.44415283	64.90527344
ps:nct5:A1a6_Ws_1_ao1	1st Stage Aft Outer 1 Temp	deg F	901.633667	919.5115967
ps:nct5:A1a6_Ws_1_ao2	1st Stage Aft Outer 2 Temp	deg F	939.8466797	952.2943115
ps:nct5:A1a6_Ws_1_fi1	1st Stage Forward Inner 1	deg F	654.1333618	663.0113525
ps:nct5:A1a6_Ws_1_fi2	1st Stage Forward Inner 2	deg F	726.428894	735.8848267
ps:nct5:A1a6_Ws_2_ao1	2nd Stage Aft Outer 1 Temp	deg F	763.1627808	769.6399536
ps:nct5:A1a6_Ws_2_fo1	2nd Stage Forward Outer 2	deg F	315.6902466	332.3657532
ps:nct5:A1a6_Ws_2_fo2	2nd Stage Forward Outer 1	deg F	837.2668457	848.8914795
ps:nct5:A1a6_Ws_3_ao1	3rd Stage Aft Outer 1 Temp	deg F	569.1643677	561.0691528
ps:nct5:A1a6_Ws_3_ao2	3rd Stage Aft Outer 2 Temp	deg F	590.3670654	579.9069824
ps:nct5:A1a7_Cdt_1	Compressor Discharge Tempe	deg F	604.3900757	613.0236206
ps:nct5:A1a7_Cdt_2	Compressor Discharge Tempe	deg F	606.9264526	619.7720947
ps:nct5:A1a7_Cit_1	Compressor Inlet Temperatu	deg F	74.5231781	83.3620224
ps:nct5:A1a7_Gen_bear_a	Generator Bearing Aft Oil	deg F	169.0336151	160.980545
ps:nct5:A1a7_Gen_bear_f	Generator Bearing Forward	deg F	169.8875885	162.7344513
ps:nct5:A1a7_Ws_3_fo1	3rd Stage Forward Inner 1	deg F	969.3588867	971.166687
ps:nct5:A1a7_Ws_3_fo2	3rd Stage Forward Inner 2	deg F	897.9309082	888.9053345
ps:nct5:A1a9_Bear_3_tmp	#3 Bearing Temperature	deg F	608.7491455	565.2394409
ps:nct5:A1a9_Cit_2	Compressor Inlet Temperatu	deg F	80.39086151	87.22762299
ps:nct5:A1a9_Exh_12	EGT #16	deg F	993.5304565	994.177124
ps:nct5:A1a9_Exh_15	EGT #17	deg F	999.697937	998.4943237
ps:nct5:A1a9_Exh_17	EGT #18	deg F	988.7650757	990.0249634
ps:nct5:A1a9_Exh_2	EGT #13	deg F	956.9154663	957.7937012
ps:nct5:A1a9_Exh_4	EGT #14	deg F	969.6777954	969.4282227
ps:nct5:A1a9_Exh_7	EGT #15	deg F	976.8684692	979.4772339
ps:nct5:A2a11_Spare_6	Spare MA Input	ma	-73	-73
ps:nct5:A2a7_Aa_oil_tmp	Atomizing Air Oil Temperat	psig	1571	1571
ps:nct5:A2a7_Aa_pre_tmp	Atomizing Air Pre Cooler T	psig	1572	1572
ps:nct5:A2a7_L_o_head_t	Lube Oil Header Temp	psig	1570	1570
ps:nct5:A2a7_L_o_res_t	Lube Oil Reservoir Temp	psig	1571	1571
ps:nct5:A2a7_Spare_5	Spare T/C Input	psig	1571	1571
ps:nct5:A2a7_Spare_6	Spare T/C Input	psig	1571	1571
ps:nct5:A2a7_Spare_7	Spare T/C Input	psig	1569	1569
ps:nct5:A2a7_Spare_8	Spare T/C Input	psig	1572	1572
ps:nct5:A2a8_Aa_oil_prs	AA Oil Pressure	psig	-29	-29
ps:nct5:A2a8_C6_fog_tmp	Fog Skid Temperature	deg F	91.53205109	82.76638794
ps:nct5:A2a8_C7_fog_hum	Fog Skid Humidity	%	43.48897934	38.97802734
ps:nct5:A2a8_C8_fog_flo	Fog Skid Water Flow	gal/min	17.24667358	0
ps:nct5:A2a8_Spare_2	Spare MA Input	psig	-24	-24
ps:nct5:A2a8_Spare_3	Spare MA Input	psig	-24	-24
ps:nct5:A2a8_Spare_4	Spare MA Input	psig	-24	-24
ps:nct5:A2a8_Spare_5	Spare MA Input	psig	-24	-24
ps:nct5:Al_Halt_time	Halt Timer Seconds	sec	180	180
ps:nct5:Al_Trn_gr_wd	Turning Gear Clutch Timer	Seconds	60	60
ps:nct5:Al_Wd10_time	Turning Gear Clutch Timer	Seconds	60	60
ps:nct5:Al_Wd14_time	Halt Timer Preset	sec	180	180
ps:nct5:Egt_Bse_Id_alm	EGT Average High Alarm Set	deg F	1061.796021	1062.618164
ps:nct5:Egt_Ref_p_20	EGT Average High Trip Setp	deg F	1081.796021	1082.618164
ps:nct5:Fuel_Bumpless	Fuel Flow Required - Setpo	GPM	150	150

JEA NCT5  
INLET FOGGER NOx  
ENVIRONMENTAL TEST

ps:nct5:Fuel_Egt_d_pid	EGT Derivative Control PID	%	101	101
ps:nct5:Fuel_Flow_cont	Fuel Flow Control PID	%	101	101
ps:nct5:Fuel_Fuel_flow	Fuel Flow	GPM	80.25812531	79.19232178
ps:nct5:Fuel_Spd_d_cnt	Speed Derivative Control P	%	101	101
ps:nct5:Fuel_Warm_comp	Warm Up Timer	Seconds	0	0
ps:nct5:Fuel_Wd13_time	Warm Up Timer Setpoint	Seconds	60	60
ps:nct5:Gen_tc_Air1_lag	Generator Air Temp #1	deg F	100.6153717	84.4200058
ps:nct5:Gen_tc_Air2_lag	Generator Air Temp #2	deg F	97.32331085	84.86856842
ps:nct5:Gen_tc_Cit_avg	Comp Inlet Tem Average	sec	77.6958313	85.20336914
ps:nct5:Gen_tc_Coil1_lag	Generator Coil Temp #1	deg F	202.7487183	178.2938843
ps:nct5:Gen_tc_Coil2_lag	Generator Coil Temp #2	deg F	191.1165924	170.8331909
ps:nct5:Gen_tc_Coil3_lag	Generator Coil Temp #3	deg F	202.9705505	181.1819153
ps:nct5:Gen_tc_Coil4_lag	Generator Coil Temp #4	deg F	188.8294525	169.7410431
ps:nct5:Gen_tc_Coil5_lag	Generator Coil Temp #5	deg F	196.3209839	177.4775391
ps:nct5:Gen_tc_Coil_temp	Generator Coil High Temper	Deg F	212.978775	189.6591187
ps:nct5:Gen_tc_Gc_avg	Generator Coil Avg Temp	deg F	196.3810577	175.5093842
ps:nct5:Idt_A_dummy	Thrust Bearing Shutdown Se	mils	0	0
ps:nct5:Idt_A_vib_mul	Atomizing Air Skid Vibrati	mils	0.406390071	0.400480658
ps:nct5:Idt_B1a_x_vib	Bearing #1 X Vibration Ala	mils	5	5
ps:nct5:Idt_B1a_y_vib	Bearing #1 Y Vibration Ala	mils	5	5
ps:nct5:Idt_B1sd_x_vib	Bearing #1 X Vibration Shu	mils	9	9
ps:nct5:Idt_B1sd_y_vib	Bearing #1 Y Vibration Shu	mils	7	7
ps:nct5:Idt_B1_vib_x	Bearing #1 X Vibration	mils	2.034396648	2.121847868
ps:nct5:Idt_B1_vib_y	Bearing #1 Y Vibration	mils	0.805000007	0.953052461
ps:nct5:Idt_B2a_x_vib	Bearing #2 X Vibration Ala	mils	5	5
ps:nct5:Idt_B2a_y_vib	Bearing #2 Y Vibration Ala	mils	5	5
ps:nct5:Idt_B2sd_x_vib	Bearing #2 X Vibration Shu	mils	7	7
ps:nct5:Idt_B2sd_y_vib	Bearing #2 Y Vibration Shu	mils	7	7
ps:nct5:Idt_B2_vib_x	Bearing #2 X Vibration	mils	3.255225897	2.661049604
ps:nct5:Idt_B2_vib_y	Bearing #2 Y Vibration	mils	1.314688325	2.021687984
ps:nct5:Idt_B3a_x_vib	Bearing #3 X Vibration Ala	mils	5	5
ps:nct5:Idt_B3a_y_vib	Bearing #3 Y Vibration Ala	mils	5	5
ps:nct5:Idt_B3sd_x_vib	Bearing #3 X Vibration Shu	mils	12	12
ps:nct5:Idt_B3sd_y_vib	Bearing #3 Y Vibration Shu	mils	12	12
ps:nct5:Idt_B3_vib_x	Bearing #3 X Vibration	mils	2.891810179	2.456875801
ps:nct5:Idt_B3_vib_y	Bearing #3 Y Vibration	mils	4.735808849	3.340453386
ps:nct5:Idt_B4a_x_vib	Bearing #4 X Vibration Ala	mils	5	5
ps:nct5:Idt_B4a_y_vib	Bearing #4 Y Vibration Ala	mils	5	5
ps:nct5:Idt_B4sd_x_vib	Bearing #4 X Vibration Shu	mils	7	7
ps:nct5:Idt_B4sd_y_vib	Bearing #4 Y Vibration Shu	mils	7	7
ps:nct5:Idt_B4_vib_x	Bearing #4 X Vibration	mils	1.355771422	1.499126077
ps:nct5:Idt_B4_vib_y	Bearing #4 Y Vibration	mils	1.100000024	1.099696517
ps:nct5:Idt_B5a_x_vib	Bearing #5 X Vibration Ala	mils	5	5
ps:nct5:Idt_B5a_y_vib	Bearing #5 Y Vibration Ala	mils	5	5
ps:nct5:Idt_B5sd_x_vib	Bearing #5 X Vibration Shu	mils	7	7
ps:nct5:Idt_B5sd_y_vib	Bearing #5 Y Vibration Shu	mils	7	7
ps:nct5:Idt_B5_vib_x	Bearing #5 X Vibration	mils	1.486697197	0.749824584
ps:nct5:Idt_B5_vib_y	Bearing #5 Y Vibration	mils	0.761967778	0.847540379
ps:nct5:Idt_Egt_sp_c	EGT Setpoint	deg F	985.967041	986.5509644

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ps:nct5:Idt_Egt_vlv_c	EGT Control PID	%	73.8820343	73.12765503
ps:nct5:Idt_Ep_dv_mul	EGT Derivative Setpoint	degF/sec	5	5
ps:nct5:Idt_E_der_mul	EGT Derivative (Actual)	degF/sec	-0.005838641	0.030188486
ps:nct5:Idt_L_o_head	Lube Oil Header Pressure	psi	27.28885841	28.25188065
ps:nct5:Idt_Maxmw_10	Maximum Megawatts	MW	70.19999695	70.19999695
ps:nct5:Idt_Minmw_10	Minimum Megawatts	MW	15	15
ps:nct5:Idt_Mvar_10	Load - MegaVARs	MVAR	10.69043064	7.480465412
ps:nct5:Idt_Mw_10	Load - Megawatts	MW	49.38180542	49.29127884
ps:nct5:Idt_Sp_dv_mul	Speed Derivative Setpoint	RPM/sec	8	8
ps:nct5:Idt_S_der_mul	Speed Derivative	RPM/sec	0	0
ps:nct5:Idt_Thral_vib	Thrust Bearing Alarm Setpo	mils	0	0
ps:nct5:Idt_Thr_vib	Thrust Bearing Vibration	mils	-12.39999962	-12.39999962
ps:nct5:iorate	NGS CT5 PI Interface I/O R		2427.940674	2356.503662
ps:nct5:Sdn_Crnk_wd	Cranking Motor Timer	Seconds	90	90
ps:nct5:Sdn_FL_stp_wd	Fuel Stop Vavle Timer	Seconds	25	25
ps:nct5:Sdn_Lo_wd	AC Lube Oil Pump Watchdog	sec	60	60
ps:nct5:Sdn_Wd11_time	Cranking Motor Timer Setpo	Seconds	90	90
ps:nct5:Sdn_Wd12_time	Fuel Stop Vavle Timer Setp	Seconds	25	25
ps:nct5:Sdn_Wd18_time	AC Lube Oil Pump Watchdog	sec	60	60
ps:nct5:Seq_cltch_Strtr_wd	Starting Motor Watchdog Ti	Seconds	1200	1200
ps:nct5:Seq_cltch_Wd6_tim	Starting Motor Watchdog Ti	Seconds	1200	1200
ps:nct5:Seq_Cmp_seq_wd	Incomplete Sequence Timer	Seconds	1200	1200
ps:nct5:Seq_dc_pmp_Dc_p	DC Lube Oil Pump Watchdog	Seconds	60	60
ps:nct5:Seq_dc_pmp_Off_ti	Battery Saver Off Timer	seconds	900	900
ps:nct5:Seq_dc_pmp_On_ti	Battery Saver On Timer	seconds	180	180
ps:nct5:Seq_dc_pmp_Wd3_	Battery Saver On Timer Set	seconds	180	180
ps:nct5:Seq_dc_pmp_Wd4_	Battery Saver Off Timer Se	seconds	900	900
ps:nct5:Seq_dc_pmp_Wd9_	DC Lube Oil Pump Watchdog	Seconds	60	60
ps:nct5:Seq_ign_Ign_tmr	Flame Detected Timer	Seconds	60	60
ps:nct5:Seq_ign_Purge	Purge Timer	Seconds	0	0
ps:nct5:Seq_ign_Wd4_time	Purge Timer Setpoint	Seconds	30	30
ps:nct5:Seq_ign_Wd5_time	Flame Detected Timer Setpo	Seconds	60	60
ps:nct5:Seq_Mtr_cooldn	Starter Motor Cooldown Tim	seconds	0	0
ps:nct5:Seq_pumps_Cooldo	Cooldown Timer	Minutes	2880	2880
ps:nct5:Seq_pumps_Timer_	Daily Oil Pump Run Timer	seconds	3600	3600
ps:nct5:Seq_pumps_Timer_	Time to Next Oil Pump Run	minutes	1380	1380
ps:nct5:Seq_pumps_Wd17_	Time to Next Oil Pump Run	minutes	1380	1380
ps:nct5:Seq_pumps_Wd18_	Daily Oil Pump Run Timer S	seconds	3600	3600
ps:nct5:Seq_pumps_Wd8_li	Cooldown Timer Setpoint	Minutes	2880	2880
ps:nct5:Seq_Wd1_time	Incomplete Sequence Timer	Seconds	1200	1200
ps:nct5:Seq_Wd2_time	Starter Motor Cooldown Tim	seconds	300	300
ps:nct5:Speed_Droop_sp	Turbine Speed Setpoint	RPM	3778.182129	3777.387207
ps:nct5:Speed_Load_speed	Droop Speed	RPM	3742.141113	3741.691895
ps:nct5:Speed_Run_down	Run Down Timer	Seconds	600	600
ps:nct5:Speed_Speed_rpm	Turbine Speed (MPU HSS)	RPM	3599.818604	3599.594971
ps:nct5:Speed_Turb_pid	Speed Control PID	%	74	73.26207733
ps:nct5:Speed_Wd7_time	Run Down Timer Setpoint	Seconds	600	600
ps:nct5:Start_Recls_tmr	Generator Breaker Reclosur	Seconds	0	0
ps:nct5:Start_Wd15_time	Generator Breaker Reclosur	Seconds	30	30

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ps:nct5:Tc_mn_Egt_avg	EGT Average	deg F	985.8579102	986.4489136
ps:nct5:Tc_mn_Spread	EGT Maximum Spread	deg F	48.58912659	51.30953979
ps:nct5:Water_fog_Depress	Water Fog Depression Temp	deg F	17.39311028	16.77649879
ps:nct5:Water_fog_Over_co	Fog Injection Cooling Setp	Deg F	0	0
ps:nct5:Water_fog_Wbd_eff	Fog Injection Wet Bulb Dep	%	0	0
ps:nct5:Water_fog_Wet_tm	Water Fog Wet Temperature	deg F	73.52314758	65.2854538

**APPENDIX E**  
**PROJECT PARTICIPANTS**



## Project Participants

JOE COOKSEY

REPORT PREPARATION  
FIELD TESTING  
CALIBRATIONS  
CALCULATIONS

GEORGE HAWKINS

FIELD TESTING

BEN MOORE

FIELD TESTING

DAVE SALTER

REPORT PREPARATION

HARVEY GRAY

REPORT REVIEW