

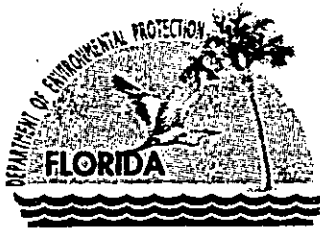
## **FINAL DETERMINATION**

### **JEA Northside Generating Station Fly and Bed Ash Handling Systems DEP File No. 0310045-007-AC, PSD-FL-265A**

An Intent to Issue PSD Permit Modification for JEA Northside Generating Station, located at 4377 Hecksher Drive, Jacksonville, Duval County, Florida, was distributed on May 3, 2001. The Public Notice of Intent to Issue PSD Permit Modification was published in the Florida Times-Union on May 8, 2001. Copies of the draft construction permit were available for public inspection at the Department offices in Jacksonville and Tallahassee.

The Department received no comments from the public, the applicant, the EPA Region 4 office or the National Park Service.

The final action of the Department is to issue the PSD Permit Modification as proposed.



Jeb Bush  
Governor

# Department of Environmental Protection

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

David B. Struhs  
Secretary

May 23, 2001

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

Mr. N. Bert Gianazza, P.E.  
Environmental Permitting & Compliance  
JEA  
21 West Church Street  
Jacksonville, Florida 32202-3139

Re: Northside Generating Station  
DEP File No. 0310045-007-AC, PSD-FL-265A

Dear Mr. Gianazza:

The Department reviewed your letter and application dated March 22, 2001 requesting changes to the design of the fly and bed ash handling systems at the referenced facility. This request is acceptable to the Department. Permit PSD-FL-265 is hereby modified as follows:

## SPECIFIC CONDITION 24.

Standards: The materials handling sources at Northside shall be regulated as follows, and the emission limits and standards shall apply upon completion of the initial compliance tests for each of the units or activities.

- (a) The following materials handling sources shall be equipped with fabric filter controls and visible emissions shall not exceed 5 percent opacity:

- Crusher house (EU29)
- Boiler fuel silos (EU31)
- Limestone receiving bins (EU32)
- Limestone crusher conveyor transfers (EU34)
- Limestone feed silos (EU35)
- Fly ash waste bins (EU36)
- Fly ash transfer and storage systems (EU37)
- Bed ash transfer and storage systems (EU38)
- Bed ash truck loadout systems (EU40)

"More Protection, Less Process"

Printed on recycled paper.

~~Fly ash truck loadout systems (EU41)~~

Pebble lime silo (EU42)

Fly ash silo pre-mixers (EU51)

Bed ash silo mixers (EU52)

Bed ash surge hoppers (EU53)

- (b) The following materials handling sources shall use wet suppression, water spray, coverings, and/or conditioned materials to control particulate emissions as needed, and visible emissions shall not exceed 5 percent opacity:

Transfer towers (EU28c, EU28g, EU28i, EU28o and EU28q)

Coal and petroleum coke storage building (EU28h)

Stacker/reclaimers (EU28)

Limestone lowering well (EU28d)

Conveyors (EU28)

~~Ash hydrator loadouts (EU28r)~~

- (c) The following materials handling sources shall use wet suppression, water spray, partial enclosures, and/or conditioned materials to control particulate emissions as needed, and visible emissions shall not exceed 10 percent opacity:

Northside dock ship unloading operations – shiphold and receiving hoppers (EU28a)

Northside dock receiving conveyor (EU28a)

Limestone storage pile (EU28p)

Limestone reclaim hopper (EU28p)

- ~~(d) The fly ash and bed ash silo hydrators (EU39) shall use a venturi scrubber and visible emissions shall not exceed 5 percent opacity.~~

- ~~(e)~~(d) The limestone dryer/mill building shall have no visible emissions (other than from a baghouse vent).

- ~~(f)~~(e) The maximum particulate matter emissions from the following operations shall not exceed 0.01 grains per dry standard cubic foot:

Limestone receiving bins (EU32)

Limestone crusher conveyor transfers (EU34)

Limestone feed silos (EU34)

#### **SPECIFIC CONDITION 41.**

Materials Handling Operations: Visible emissions tests shall be conducted on the material handling operations to determine compliance with applicable limits, as follows:

Emissions Units at Northside	EPA Meth od(s)	Duration of VE Test	Frequency	Material
Shiphold (EU 28a)	9	30 min	1 only	C or PC
Ship Unloader & Spillage Conveyors (EU 28a)	9	3 hr	1 only	C & LS
Conveyors (EU 28)	9	3 hr	1 only	C & LS
Transfer Towers (EU 28c, 28g, 28i, 28q)	9	3 hr	1 only	C & LS
Fuel Storage Building (EU28h)	9	30 min	1 only	C or PC
Fuel Storage Pile - Stacking & Reclaiming (EU28)	9	30 min	1 only	C or PC
Limestone Storage Pile (EU28p)	9	30 min	1 only	LS
Hydrator Truck Loadout - 1 per silo @ Discharge (EU28r)	9	30 min	1 only	Bed & Fly Ash
<b>NSPS - OOO</b>				
Limestone Receiving Bins - Baghouse Exhaust (EU32)	9-VE 5-PM	IVE - 60 min RVE - 30 min	Meth 9: 1 & R Meth 5: 1 only	LS
Limestone Crusher Conveyor Transfer - Baghouse Exhaust (EU34)	9-VE 5-PM	IVE - 60 min RVE - 30 min	Meth 9: 1 & R Meth 5: 1 only	LS
Limestone Feed Silos - Baghouse Exhaust (EU35)	9-VE 5-PM	IVE - 60 min RVE - 30 min	Meth 9: 1 & R Meth 5: 1 only	LS
Limestone Dryer Building	22	IVE - 75 min	1 only	LS
<b>NSPS - Y</b>				
Crusher House - Baghouse Exhaust (EU29)	9	IVE - 3 hr RVE - 30 min	1 & R	C
Boiler Feed Silos - Baghouse Exhaust (EU31)	9	IVE - 3 hr RVE - 30 min	1 & R	C
<b>Other</b>				
Fly Ash Waste Bin - Baghouse Exhaust (EU36)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Fly Ash Silos - Baghouse Exhaust (EU37)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Bed Ash Silos - Baghouse Exhaust (EU38)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Fly Ash Hydrators - Scrubber Exhaust (15 min/hydrator) (EU39)	9	IVE - 60 min RVE - 60 min	1 & R	Ash
Bed Ash Hydrators - Scrubber Exhaust (15 min/hydrator) (EU39)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Fly Ash Truck Loadout - Baghouse Exhaust (EU41)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Bed Ash Truck Loadout - Baghouse Exhaust (EU40)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Pebble Lime Silo - Baghouse Exhaust (EU42)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Fly ash silo pre-mixers (EU51)	9	IVE - 60 min RVE - 60 min	1 & R	Ash
Bed ash silo mixers (EU52)	9	IVE - 30 min RVE - 30 min	1 & R	Ash
Bed ash surge hoppers (EU53)	9	IVE - 60 min RVE - 60 min	1 & R	Ash

C - Coal

I - Initial R - Renewal (once every 5 years)

IVE - Initial Visible Emissions Test, RVE - Renewal Visible Emissions Test

LS - Limestone; PC-Petroleum Coke

A copy of this letter shall be filed with the referenced permit and shall become part of the permit. This permit modification is issued pursuant to Chapter 403, Florida Statutes. Any party to this order (permit modification) has the right to seek judicial review of it under Section 120.68, F.S., by the filing of 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 of Appeal must be filed within (thirty) days after this Notice is filed with the Clerk of the Department.

Executed in Tallahassee, Florida.



for Howard L. Rhodes, Director  
Division of Air Resources

**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 5/25/01 to the person(s) listed:

- B. Gianazza, P.E., JEA\*
- G. Worley, EPA
- J. Bunyak, NPS
- C. Kirts, DEP NED
- H. Oven, PPS
- J. Manning, RESD
- L. Sherrill, P.E., Black & Veatch Corp.

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.

Charlotta J. Hayes 5/25/01  
(Clerk) (Date)

Florida Department of  
Environmental Protection

Memorandum

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TO: Howard L. Rhodes

THRU: Clair Fancy  
Al Linero

FROM: Syed Arif

DATE: May 22, 2001

SUBJECT: JEA's Northside Generating Station -- Design changes to the fly & bed ash handling system. DEP File No. 0310045-007-AC, PSD-FL-265A

Attached for approval and signature is a PSD permit modification to JEA for the Northside Generating Station, located in Jacksonville, Duval County. The permit modification is to facilitate changes to the ash handling system. The changes will allow boiler ash byproducts to be slurried and then pumped to the byproduct storage area as a dense slurry.

The proposed changes will cause a net decrease of approximately 8 tons per year (tpy) of particulate matter and 1 tpy of PM<sub>10</sub> from the fly and bed ash handling systems currently permitted, and will meet the permitted BACT limits already established for the process.

The Public Notice was published on May 8, 2001 in the Florida Times-Union. No comments were received.

I recommend your approval and signature.

/sa

Attachments

*Arif* 5/23

*Syed Arif*

*Issued  
Howard L.*

**SENDER: COMPLETE THIS SECTION**

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

1. Article Addressed to:

Mr. N. Bert Gianazza, P.E.  
 Environmental Permitting &  
 Compliance  
 JEA  
 21 W Church St  
 Jacksonville, FL 32202-3139

2. Article Number (Copy from service label)  
 7000 0600 0026 4129 9327

**COMPLETE THIS SECTION ON DELIVERY**

A. Received by (Please Print Clearly) **T. HEANEY** B. Date of Delivery **MAY 31 2001**  
 C. Signature **T. Heaney**  Agent  Addressee  
 D. Is delivery address different from item 1?  Yes  
 If YES, enter delivery address below:  No

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

4. Restricted Delivery? (Extra Fee)  Yes

PS Form 3811, July 1999

Domestic Return Receipt

102595-99-M-1789

**U.S. Postal Service**  
**CERTIFIED MAIL RECEIPT**  
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
<b>Total Postage &amp; Fees</b>	<b>\$</b>

Postmark Here

Recipient's Name (Please Print Clearly) (to be completed by mailer)  
**Mr. N. Bert Gianazza, PE**  
 Street, Apt. No., or PO Box No.  
**21 W. Church St**  
 City, State, ZIP+4  
**Jacksonville, FL 32202-3139**

PS Form 3800, February 2000

See Reverse for Instructions