

1) Technical Specifications

1.1) Production and Composition of Hydrated Ash

JEA operates two Circulating Fluidized Bed (CFB) boilers at the Northside Generating Station. The CFB boilers are fueled by a combination of petroleum coke, coal, biomass, and natural gas. The blends of each fuel type can and do vary to some degree. Since 2014, JEA has maintained a blend of at least 51% petroleum coke by weight to avoid being labeled as producing a Coal Combustion Residual (CCR).

Limestone is also added during the power generation process to create thermal mass and to aid in the removal of sulfurous gas emissions. The amount of limestone added is directly correlated to the amount of sulfur contained in the fuel mix and that is also directly correlated to the amount of byproduct produced.

JEA tries to ship as much dry ash as possible to offsite outlets. However, when the ash silos get too full, the ash is mixed with water to create a slurry. The slurry is pumped out to pre-dug pits on the Byproduct Storage Area.

Ash from the Northside Generating Station is distinct from that of conventionally fired boilers because it is composed primarily of lime and gypsum (calcium oxides and calcium sulfate, respectively). Less than 10% of the ash weight represents what would generally be termed “ash” from combustion of the fossil fuels. Over 90% of the ash weight is a result of the addition of the limestone to the boilers.

1.2) Loading of Trucks

JEA's Byproduct Storage Area is located at 4433 William Ostner Road. Jacksonville, FL 32226.

The company's truck drivers will first check-in with Northside's security guard station located on William Ostner Road. With access to the facility granted, they will drive to the Northside Scale House to be weighed with the truck empty. They will then proceed to the Byproduct Storage Area to be loaded. Best efforts will be made to load each truck as reasonably full of hydrated ash as possible while also avoiding overloading. Afterwards, the truck drivers will return to the Northside Scale House to be weighed with the truck loaded before heading on to the destination landfill.



1.3) Northside Scale House

The Northside Scale House hours of operation are from 6:30am to 5:00pm on weekdays.

1.4) Weight Determination of Moved Ash

Tonnages will be billed using the scales at the destination landfill. If JEA's averaged scaled volumes are more than 5% different than the destination landfill's scaled volumes during any billing period, then transportation and disposal of hydrated ash will be suspended until the discrepancy can be identified and resolved. The Company shall submit the destination landfill disposal tickets with invoices.

1.5) Exclusion of Warranties; Limitation of Remedies

JEA represents that the hydrated ash is from JEA's Northside Generating Station, which is fueled by 50% petroleum coke or greater. The hydrated ash is an industrial byproduct and some variation in the physical or chemical properties may occur. PURSUANT TO SECTION 672.316, FLORIDA STATUTES, JEA OFFERS THE HYDRATED ASH AS IS AND WITH ALL FAULTS. THERE ARE NO EXPRESS OR IMPLIED WARRANTIES OTHER THAN THOSE STATED IN THIS AGREEMENT. THE IMPLIED WARRANTY OF MERCHANTABILITY AND ANY IMPLIED WARRANTY OF FITNESS ARE SPECIFICALLY EXCLUDED. THE SOLE AND EXCLUSIVE REMEDY FOR ANY CLAIM AGAINST JEA IS LIMITED TO RETURN OF THE TRANSPORTATION AND DISPOSAL PRICE FOR THE MATERIAL.

1.6) Load Refusal and Ownership Transfer

The Company reserves the right to refuse acceptance of any load should it determine in its sole discretion that proves to be operationally challenging, is in violation of the destination's landfill permit, or poses a threat to human health or safety. Ownership of the hydrated ash shall transfer upon the loading into the Company's trucks. After loading, JEA shall have no further liability in connection with the hydrated ash, and the Company shall bear all risks associated with transporting the hydrated ash to the destination Landfill.

2) Minimum Qualifications

2.1) Safety Commitment

Experience Modification Rating (EMR) number less than 1.

Complete a PRA Evaluation Form for each individual who will need access to Northside.

All truck drivers and associated personnel shall abide by all of JEA safety standards while operating on JEA property.

2.2) Minimum Daily Volume

The company will be able to transport at least a minimum of 500 tons/day to the destination landfill and operate each weekday except for Holidays.

2.3) Equipment

All trucks must:

- Use environmental tarps to cover the hydrated ash during transit.
- Have sealed, leak-resistant end-dump trailers.
- Be compliant with current EPA emission standards.
- Follow routine pre-trip and post-trip inspection protocols.
- Have preventative maintenance program with documented service intervals.
- GPS tracking and electronic load verification capability.
- Compatible with direct-loading operation at Northside.
 - Northside uses front end loaders with a Caterpillar 980's as a minimum size.
 - Each front end loader is outfitted with bucket scales.

2.4) Disposal Facility

The Company shall provide a list of all the landfills that will be used for the disposal of hydrated ash.

Each landfill must be permitted as one of the following:

- A **Subtitle D Industrial Solid Waste Landfill**, or
- A **Subtitle D Municipal Solid Waste Landfill** that is specifically permitted and approved to accept industrial "special waste" streams.

Under no circumstances may the Contractor use an unlined C&D landfill or any disposal facility that does not meet federal and state liner, leachate collection, and groundwater monitoring requirements.

The facility must comply with all applicable RCRA Subtitle D requirements and relevant state solid waste regulations, including but limited to:

- Florida: Chapter 62-701, Florida Administrative Code
- Georgia: Georgia Rules for Solid Waste Management, Chapter 391 3-4

Landfills in other states may be used only with JEA approval and must meet equivalent regulatory standards.

JEA has maintained a blend of at least 51% petroleum coke by weight and therefore is exempt from the Coal Combustion Residual (CCR) requirements under 40 CFR Part 257 Subpart D. The permitted disposal facility must be capable of accepting non-hazardous petroleum coke, coal, and biomass ash byproduct.

Before disposal begins, the Company shall submit the following information for each landfill to be utilized:

- The active landfill permit that allows the acceptance of industrial non-hazardous or “special waste” streams.
- A confirmation letter from the landfill operator indicating acceptance of petroleum coke/coal/biomass byproduct. JEA will provide required waste characterization data (e.g., TCLP metals, percent moisture).
- Latest landfill regulatory inspection report.