

Bull, Robert (Bobby)

From: Casey, Lee (PWWM) <le1@miamidade.gov>
Sent: Wednesday, June 10, 2015 3:58 PM
To: SCO (Shared Mailbox)
Cc: Ganguli, Asok (PWWM); Uchdorf, Wieland (PWWM); Hernandez, German (PWWM)
Subject: Installation of Compressed Natural Gas (CNG)
Attachments: CNG Tractor Spec final_201506091434 Attachment 4.pdf; CNG Site Plan Attachment 2.pdf; TempCNG Station Attachment 3.pdf; CNG FactoryPic Attachment 5.jpg; CNG Fueling Bibs Attachment 6.jpg; CNG Fueling Bibs 2 Attachment 7.jpg; RRF Aerial Photo PPSC MinorAmend CNG Station June 2015 Attachment 1.doc

Dear Mr. Green,

The Miami-Dade Public Works and Waste Management Department respectfully requests a minor amendment of the Miami-Dade County Resources Recovery Facility (RRF) Power Plant Site Certification (PA 77-08E) to allow the installation of a temporary Compressed Natural Gas (CNG) Fueling Station. The Fueling Station is necessary for the County to carry out a pilot test comparing the efficiencies and economics of using CNG fuel in lieu of Diesel fuel to power truck tractors used at RRF for hauling waste and residuals from the RRF site.

The RRF is a waste-to-energy plant, which is the centerpiece of the County's Solid Waste Management System. Municipal Solid Waste (MSW) is delivered to the site, shredded, and sized into a Refuse Derived Fuel (RDF). Components of the MSW that are non-processable (e.g. furniture, carpet, and other bulky, oversized waste) and process residuals (e.g. fragments of glass, grit, and dirt that have no fuel value) are removed from the site using 80 cubic yard trailers towed by a standard truck tractor. These pieces of equipment are owned, maintained, and operated by the County. There are approximately 30 tractor-trailer rigs assigned to the site to remove non-processables and residuals. When not in operation, the tractor-trailers are parked in a gravel lot north of the RRF Plant and south of the stormwater pond close to the leachate storage tank (Attachment 1). The proposed CNG Station will also be located north of the RRF Plant but close to the eastern construction entrance gate of the plant (Attachments 1-3).

The Department has ordered 10 tractor cabs with an option to purchase additional tractor cabs powered by Compressed Natural Gas (CNG) to test the efficiency and economics of the equipment and this alternative fuel (Attachment 4). Truck tractor cabs powered with this alternative fuel is an initiative of and consistent with the County's Sustainability Program or "Greenprint Plan". The County selected the RRF site to test the CNG concept due to the dedicated fleet of tractor-trailers already stationed at the site and the availability of a high-pressure natural gas main available on the site. The test will be conducted for a period of about two years.

The proposed work entailed with this request is:

- Installation of a lateral or tap of the existing eight (8) inch high-pressure natural gas pipeline serving the site
- Construction of two concrete foundation pads for placement the skid mounted gas compression stations (optional since skid mounted equipment can be positioned on the prepared natural ground)
- Installation of two (2) skid mounted self-contained, gas compression/ fueling stations (Attachment 5)
- Installation of K-Rail fueling points and supply piping and hoses (Attachments 6 & 7)
- Related site work and grading to maintain drainage pattern in area and facilitate parking, ingress and egress to the filling points

The proposed changes do not adversely affect the environment; do not increase traffic to and from the site; potentially improve air emissions from the rolling stock; and do not or increase the electric power generation at the site. The footprint of the power plant site will not be expanded by the proposed work.

Please do not hesitate to contact me if you need additional information or clarifications related to this request.

Lee S. Casey, CSM

Sr. Division Director

Technical Services & Environmental Affairs

Miami-Dade County

Public Works & Waste Management Department

305-514-6672 (Office)

305-301-3360 (Mobile)

Delivering Excellence Every Day