

Air Pollution Control System Upgrade -- No. 500931

Category	Solid Waste-Sanitation	Date Last Modified	March 31, 2008
Subcategory	Solid Waste Management	Required Adequate Public Facility	No
Administering Agency	Environmental Protection	Relocation Impact	None.
Planning Area	Dickerson-Barnesville	Status	Final Design Stage

EXPENDITURE SCHEDULE (\$000)

Cost Element	Total	Thru FY07	Est. FY08	Total 6 Years	FY09	FY10	FY11	FY12	FY13	FY14	Beyond 6 Years
Planning, Design, and Supervision	0	0	0	0	0	0	0	0	0	0	0
Land	0	0	0	0	0	0	0	0	0	0	0
Site Improvements and Utilities	0	0	0	0	0	0	0	0	0	0	0
Construction	0	0	0	0	0	0	0	0	0	0	0
Other	8,564	0	0	8,564	8,564	0	0	0	0	0	0
Total	8,564	0	0	8,564	8,564	0	0	0	0	0	0

FUNDING SCHEDULE (\$000)

Solid Waste Disposal Fund	8,564	0	0	8,564	8,564	0	0	0	0	0	0
Total	8,564	0	0	8,564	8,564	0	0	0	0	0	0

OPERATING BUDGET IMPACT (\$000)

Maintenance				7,033	0	1,568	1,627	1,238	1,279	1,321
Net Impact				7,033	0	1,568	1,627	1,238	1,279	1,321

DESCRIPTION

This project is for two items at the Resource Recovery Facility (RRF) in Dickerson, Maryland: 1) the installation of the Low Nitrogen Oxide (LNTM) system and 2) the replacement of the ammonia anhydrous (without water) tank and system with a tank and system that holds a non-hazardous liquid aqueous (with water) solution of 19 percent ammonia. The project will reduce nitrogen oxides (NOx) emissions by 50 percent.

LNTM is a new combustion control technology that reduces the amount of NOx formed in combustion gases over the firing grate, by means of computer-controlled redistribution of over-fire air, and works with 19 percent aqueous ammonia reagent injection to ultimately reduce by one half the concentrations of NOx in the flue gasses. Stack NOx emissions will be reduced from the current 180 ppm to 90 ppm.

JUSTIFICATION

Nitrogen oxides (NOx) are precursors to SMOG/ground level ozone and contribute to acid rain. The United States Environmental Protection Agency (USEPA) has imposed a June 15, 2010 deadline on the Washington Region to meet an 8-hour ozone standard. Included in this project is elimination of the storage and use of a hazardous chemical (anhydrous ammonia) at the RRF. LNTM is the most advanced NOx control system available. This project will make a substantial contribution toward regional ozone attainment.

APPROPRIATION AND EXPENDITURE DATA

Date First Appropriation	FY09	(\$000)
First Cost Estimate		
Current Scope	FY09	8,564
Last FY's Cost Estimate		0
Appropriation Request	FY09	8,564
Appropriation Request Est.	FY10	0
Supplemental Appropriation Request		0
Transfer		0
Cumulative Appropriation		0
Expenditures / Encumbrances		0
Unencumbered Balance		0
Partial Closeout Thru	FY06	0
New Partial Closeout	FY07	0
Total Partial Closeout		0

COORDINATION

United States Department of Environmental Protection
 Northeast Maryland Waste Disposal Authority
 Covanta Energy Systems
 Maryland Department of the Environment

MAP

See Map on Next Page