

State of Florida
DEPARTMENT OF ENVIRONMENTAL REGULATION

INTEROFFICE MEMORANDUM

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TO: Charles Collins, St. Johns River District
Buck Oven, Power Plant Siting Section
Bob King, BAQM ✓
Larry George, BAQM

FROM: Ed Palagyi, BACT Coordinator

DATE: July 17, 1981

SUBJ: Request for a BACT determination - Orlando Utilities
Commission - Coal fired electric generator No. 1.

Attached is a partial BACT Determination for subject applicant. Please send your recommended BACT and justification to my attention on or before August 3, 1981. This is the third BACT determination requested for a coal fired electrical generator, the others being in Tampa and Jacksonville.

A final determination will be made based on the comments received. Your willingness to be on this BACT review panel is greatly appreciated. The rewards are too numerous to mention.

EP:caa

Best Available Control Technology (BACT) Determination
Orlando Utilities Commission
Orange County

The proposed facility is the construction of one 415 net megawatt coal-fired electric utility steam generating unit and one 92 million Btu per hour heat input oil-fired auxiliary boiler. The site is to be known as the Curtis H. Stanton Energy Center and is to be designed to accommodate four generating units. This determination is for Unit No. 1, the only installation proposed at this time.

The Energy Center is to be located approximately ten miles south-east of Orlando in Orange County classified non-attainment only for the pollutant ozone (17-2.16(1)(g)F.A.C.). The facility must comply with the provisions of 17-2.04 F.A.C. (Prevention of Significant Deterioration).

BACT Determination Requested by the Applicant:

Pollutant	Emission Limit
Particulates	0.03 lb/million Btu input
SO ₂	NSPS
NO _x	0.60 lb/million Btu input

Particulate emissions to be controlled with a cold side Electrostatic Precipitator (ESP). Sulfur dioxide emissions to be controlled with a wet limestone flue gas scrubber. There is no specific technology to control NO_x emissions, therefore, BACT is to be the manufacturer's guarantee for state-of-the-art burner design parameters to minimize NO_x emissions.

Fugitive dust from the coal handling system will be controlled with bag filters, water sprays, and a telescopic chute. Fugitive dust from the limestone handling system will be controlled with bag filters, telescopic chute, pile compaction, and covered conveyors. Emissions from the fly ash vacuum type pneumatic transfer system will be controlled with a fabric filter baghouse. Dust generated by vehicle traffic over unpaved roads will be reduced by wetting with water or a dust palliative.

Date of Receipt of a BACT Application:

July 9, 1981

Date of Publication in the Florida Administrative Weekly:

July 24, 1981

Review Group Members:

Buck Oven, Power Plant Siting Section

Bob King, DER New Source Review Section

Larry George, DER Air Modeling Section

Charles Collins, St. Johns River District

BACT Determination and Justification:

Please send your recommendations with justification for BACT to Ed Palagyi, BAQM by August 3, 1981. A determination will then be made based on the comments received.