Florida Department of

Environmental Protection

Memorandum

TO: Charles Harp
THROUGH: Armando I. Sarasua, P.E.
FROM: Howard Ard
DATE: February 1, 2013
SUBJECT: Evaluation Summary for Florida Community Services Corp. dba Regional Utilities, Biosolids Dryer Facility, Seacrest Wastewater Treatment Facility, 1310261-003-AO, Walton County

We recommend issuing a renewal operating permit to Florida Community Services Corp. to operate their Biosolids Dryer Facility at the Seacrest Wastewater Treatment Facility. This permit follows 1310261-002-AO, effective April 1, 2008.

Process Description. The Seacrest Wastewater Treatment Facility (WWTF) treats and disposes of domestic wastewater. Biosolids, also known as residuals or sludge, are a treatment process by-product. Biosolids are dried in the Dragon Dryer, an indirect sludge dehydrator with a heat exchanger. The facility Biosolids Dryer System consists of a Sludge Feed System, a Thermal Fluid (oil) System, a Dragon Dryer System a Dryer Off-gas Treatment System and a Sludge Discharge System.

Pollution Control Equipment. A MicroMist Condenser, manufactured by EnviroCare Systems, Inc., removes PM from the dryer exhaust. The Dustol system controls particulate dust and helps minimize objectionable odor.

Environmental Impact.
Total estimated (based on permitted limitations) potential emissions from the facility are:

Pollutants (tons per year)	NO_x	CO	SO_2	PM
Sludge Dehydrator	0.40	3.38	2.20	Neg.
Thermal Oil Heat Exchanger	1.21	0.53	0	Neg.
MicroMist Condenser				0.05
Fugitives				0.56
TOTAL	**1.61**	**3.91**	**2.20**	**0.61**

Neg. – Particulate matter emissions from the combustion of natural gas is considered negligible

Airborne Contaminant Emitted	FAC Rule	Estimated Emissions		Allowable Emissions	
		lbs/hr	T/yr	lb/hr	T/yr
PM	N/A	N/A	0.61	N/A	N/A
SO2	N/A	N/A	2.20	N/A	N/A
NOx	N/A	N/A	1.61	N/A	N/A
CO	N/A	N/A	3.91	N/A	N/A
Objectionable Odors	62-296.320(2)	N/A	N/A	None allowed off plant property	
VE	N/A	N/A	N/A	Not more than 20% opacity	

Applicable Rules & Regulations: The indirect drying of the Biosolids sludge with the Dragon Dryer allows the facility to be exempt from 40 CFR Part 61 Subpart E requirements [61.51(m) Sludge dryer means a device used to reduce the moisture content of sludge by heating to temperatures above 65°C (ca. 150°F) directly with combustion gases] for mercury. This facility is subject to the general requirements of Rules 62-296.320(2) and (4)(b), F.A.C., for objectionable odor and visible emissions, respectively.

Compliance Monitoring: Recordkeeping of production rate, hours of operation and a log of Dustol system malfunctions.

Compliance History: A review of the Department's records for the last five years indicates that the facility has been consistently in compliance.

Fee Summary: This is an AO2C ($750 fee) minor source with no test.

HA/c