

***Northeast Region: Air Quality Program, 2 Public Square, Wilkes-Barre, PA 18711-0790.***

*Contact: Raymond Kempa, New Source Review Chief—Telephone: 570-826-2507.*

**Plan Approval Application No: 48-00111A.** Notice is hereby given under 25 Pa. Code §§ 127.44(b)(5) and 127.424, that the Department of Environmental Protection (Department) is soliciting comments on the proposed Air Quality Plan Approval 48-00111A for Slate Belt Heat Recovery Center, LLC (the Permittee), 435 Williams Court, Baltimore, MD 21220-2888 to construct and operate a biosolids processing facility which will be sited on a parcel of land owned by Grand Central Sanitary Landfill (GCSL), in Plainfield Township, **Northampton County**, as described in the Permittee's May 18, 2018 Plan Approval Application and any other subsequent supplemental submissions.

Plan Approval No. 48-00111A is for the construction and operation of a biosolids processing facility consisting of following equipment: Installation of a thermal oil heater, thermal drying equipment to facilitate processing biosolids into a Class A dried biosolids product, product conveyance and storage equipment, a two-stage odor control system and a baghouse.

The proposed thermal oil heater will be designed to utilize natural gas or excess/available landfill gas as a fuel. The total maximum heat demand of the supplemental thermal oil heater is currently estimated to be 50.0 MMBtu/hr to support the dryer system without the waste heat.

The thermal dryer process will consist of two (2) fully enclosed indirectly heated belt dryers in parallel, each with a biosolids input capacity of approximately 200 wet tons per day, for a facility total throughput of 400 wet tons containing an average of approximately 21% solids per day. Sludge will be pressed to a granular shape by a roller or swivel press and dropped down onto the top belt of the drier in a uniform pile. Biosolids will be conveyed from a receiving/storage tank into an enclosed belt dryer system that circulates warm air to evaporate moisture from the biosolids.

The belt dryer system will be a potential odor source primarily of ammonia associated with the off-gassing from the heat treatment during the drying process. The belt dryers are fully enclosed and operate in a negative air pressure manner, such that all off-gassing during the thermal treatment of the biosolids is contained within the dryer system itself. The bulk of the airstream is recycled in the dryer system after moisture, containing ammonia, is condensed and transported to storage. There will be a small saturated airstream removed from each of the belt dryers, which will include the evaporated moisture and ammonia. This airstream is routed to a condenser that serves to knock out the majority of the moisture from the process, with the remaining air stream routed to the odor control system, which is designed to reduce ammonia.

The facility will include enclosed receiving units, covered aboveground process wastewater storage tank, covered product conveyance system, and covered product storage tanks. The biosolids receiving/storage process and waste water storage tank will be a potential odor source primarily of hydrogen sulfide (H<sub>2</sub>S) and ammonia (NH<sub>3</sub>) associated with biological activity during material storage. Potential odors from the receiving/storage process will be routed to the odor control system.

The product storage silo will have a dust collection system maintaining negative pressure on the headspace of the silo, which will be routed to the odor control system.

The wastewater storage tank has the potential to be a minor source of odor related to the ammonia (NH<sub>3</sub>). Flow from the covered wastewater storage tank will be routed to the odor control system.

The dust collector will remove dust from the enclosed product storage and conveyance operations. This control option is custom designed for this proposed dryer process and is expected to have a dust removal efficiency of at least 90%.

The company has proposed packed bed wet scrubbers to control odors associated with NH<sub>3</sub> and H<sub>2</sub>S from the sludge drying operations. The system will be designed to remove 99% of H<sub>2</sub>S & NH<sub>3</sub>.

Based on 8,760 hours of operation, as worst-case scenario the following potential emissions are expected from the facility.

Source	Pollutant lb/hr											Total HAPS
	PM	PM <sub>10</sub>	PM <sub>2.5</sub>	NO <sub>x</sub>	SO <sub>x</sub>	CO	VOC	H <sub>2</sub> S	NH <sub>3</sub>	CH <sub>2</sub> O	CO <sub>2</sub> e	
Drying Operations	0.39	0.39	0.39	—	—	0.39	1.54	0.01	0.04	—	—	—
Thermal oil heater	0.82	0.82	0.82	3.30	7.14	2.67	0.55			0.02	11,712	0.78
Product Storage and Conveyance	1.16	1.16	1.16	—	—	—	—	—	—	—	—	—

The facility will be subject to 25 Pa. Code § 127.12 (a) (5) Best Available Technology (BAT) requirements. The visible emission will be equal to or less than 10 % at any time. The company shall be subject to and comply with 25 Pa. Code § 123.31 for malodorous emissions.

The Plan Approval and subsequent Operating Permit will include testing, monitoring, record keeping and reporting requirements designed to keep the sources operating within all applicable air quality requirements and regulations.

Persons wishing to provide the Department with additional information, which they believe should be considered prior to the issuance of the Plan Approval, may submit the information to the address shown below. The Department will consider any written comments received within 30 days of the publication of this notice. Each written comment must contain the following: name, address and telephone number of the person submitting the comments; identification of the proposed Plan Approval No. 48-00111A and a concise statement regarding the relevancy of the information or any objections to the issuance of the Plan Approval.

A public hearing will be held for the purpose of receiving comments on the proposed air quality plan approval. The hearing will be held on Monday, August 12th, 2019 at Wind Gap Middle School, 1620 Teels Rd, Pen Argyl, PA 18072 from 6:00 PM to 9:00 PM. Persons interested in commenting are invited to appear.ed

Copies of the applications, the Department's technical reviews and other supporting documents are available for public inspection between the hours of 8 a.m. and 4 p.m. at the Department's Wilkes-Barre Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915. Appointments for scheduling a review may be made by calling (570) 826-2511.

The general procedures for the hearing are as follows:

To develop an agenda for the hearing, the Department requests that individuals wishing to testify at the hearing submit a written notice of their intent. The notice should be sent to Mark Wejkszner, P.E, Air Quality Program Manager, Department of Environmental Protection, Air Quality Program, Wilkes-Barre Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915. The Department will accept notices up to the day of the public hearing.

This written notice should include the person's name, address, telephone number and a brief description as to the nature of the testimony. Individuals who submit a notice of intent to testify will be given priority on the agenda. If time permits, the Department will allow individuals who have not submitted a notice of intent to testify to present their comments.

Each individual will have up to 5 minutes to present testimony. The Department requests that individuals present written copies of their testimony in addition to their oral presentations.

To ensure that all speakers have a fair and equal opportunity to present their testimony, relinquishing of time will be prohibited. Further details relating to the procedures to be followed at the hearing will be outlined at the beginning of the hearing.

Persons unable to attend the hearing can submit written testimony to the Department through August 26th, 2019.

The Department will address comments from the public before any final actions are taken on the proposals. A summary report addressing the concerns raised by the public will be released should the Department decide to issue the Plan Approval. Send written comments to Mark Wejkszner, P.E, Air Quality Program Manager, Department of Environmental Protection, Air Quality Program, Wilkes-Barre Regional Office, 2 Public Square, Wilkes-Barre, PA 18701-1915.

Persons with a disability who wish to comment and require an auxiliary aid, service or other accommodations should contact the Department at the address shown above, or the Pennsylvania AT&T Relay Service at (800) 654-5984 (TDD) to discuss how the Department may address their needs.

For additional information regarding the above, contact Mark Wejkszner P.E at (570) 826-2511 or write to the Department at the Wilkes-Barre address given previously.