

ALLEGHENY COUNTY HEALTH DEPARTMENT AIR QUALITY PROGRAM

March 9, 2023

SUBJECT: Allegheny Energy Center (AEC)
2130 Margaret St. Ext.
West Newton, PA, 15089
Allegheny County

Administrative Amendment: Installation Permit No. 0959-I001a

TO: JoAnn Truchan, P.E.
Section Chief, Engineering

FROM: Bernadette Lipari
Air Quality Engineer

FACILITY DESCRIPTION:

Allegheny Energy Center LLC (Invenergy) plans to construct, own, and operate the Allegheny Energy Center (AEC), a 639 megawatt (MW), natural gas-fired combined-cycle power plant Elizabeth Township, Allegheny County. AEC will consist of a one-on-one (1×1), nominal 639 MW power plant that will include one combustion turbine (CT), one heat recovery steam generator (HRSG) with supplemental duct firing, and one steam turbine (ST). The proposed General Electric (GE) model (7HA.03) CT will fire clean low sulfur pipeline-quality natural gas. In addition to the CT and associated pieces of equipment, one auxiliary boiler, one dew point heater, one emergency generator, one fire water pump, and three above-ground storage tanks (AST) including a 20,000-gallon aqueous ammonia storage tank will be included as part of the facility.

The facility is a major source of nitrogen oxides (NO_x), carbon monoxide (CO), and volatile organic compounds (VOCs) emissions and a minor source of particulate matter, particulate matter < 10 microns in diameter (PM₁₀), particulate matter < 2.5 microns in diameter (PM_{2.5}), sulfur dioxide (SO₂), and hazardous air pollutants (HAPs) as defined in section 2101.20 of Article XXI and in 40 CFR Part 51 Subpart 165(a)(1)(iv)(A)(1).

PERMIT AMENDMENT DESCRIPTION

This permit is an administrative amendment to extend the expiration date of the permit by 18 months. Permit extension is allowed under Article XXI, §2102.04.g, condition III.12 of the issued permit, and 40 CFR Part 63, §52.21(r)(2). Based on EPA guidance, because this is the first extension request, no review of control technology is required.

PERMIT APPLICATION COMPONENTS:

1. Correspondence, dated February 27, 2023 requesting an extension of the permit.
2. EPA Guidance Document on Extension of PSD Permits, January 31, 2014.
3. Installation Permit #0959-I001, issued October 5, 2021.

RECOMMENDATION:

Allegheny Energy Center has demonstrated that the proposed extension request is justified due to ongoing litigation, the extended vacancy of the ACHD hearing officer position (which has been remedied), and the permittee's subsequent inability to set a construction schedule. It is recommended that the installation permit be amended via administrative amendment to extend the expiration date until October 4, 2024.