

## ALLEGHENY COUNTY HEALTH DEPARTMENT

### NOTICE OF PROPOSED REVISION TO THE STATE IMPLEMENTATION PLAN FOR OXIDES OF NITROGEN, VOLATILE ORGANIC COMPOUNDS (RACT III) AND NOTICE OF INTENT TO ISSUE MAJOR (TITLE V) OPERATING PERMITS

In accordance with Article XXI §2102.05.c and §2103.21.c, the Allegheny County Health Department is proposing to issue a renewal Title V operating permit for the following major source facility and to revise the State Implementation Plan (SIP) for nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOC) Reasonably Available Control Technology (RACT III). The relevant RACT III requirements will be submitted to the U.S. Environmental Protection Agency for the conditions to become part of the Pennsylvania State Implementation Plan (SIP) and will remain in effect until replaced pursuant to 40 CFR 51 and approval by the EPA. Requirements that are not part of the RACT III determination will be excluded from the SIP submittal.

The proposed SIP revision does not adopt any new regulations. It incorporates the provisions and requirements contained in the RACT III approval for the facility, which are intended to satisfy the requirements of the 1997 National Ambient Air Quality Standard (NAAQS) and the 2015 NAAQS for ozone. The following is a summary of the proposed RACT III determination that will be submitted to the EPA as a SIP revision:

**SPRINGDALE ENERGY, LLC (0580-I005)**, Butler Street Extension, Springdale, PA 15144 for the operation of a commercial electric power generation facility consisting of two simple cycle combustion turbines, two combined cycle combustion turbines and a heat recovery steam generator. The facility also has a recirculating cooling tower, ammonia storage tank, and an emergency fire pump engine. This permit replaces installation permits 0580-I001 through 0580-I003 and includes the conditions for RACT III. No new equipment is being installed, but this permit includes the existing fire pump engine, which is a source of minor significance.

The facility is a major source of nitrogen oxides (NO<sub>x</sub>) and volatile organic compounds (VOCs) and therefore is subject to Reasonable Available Control Technology (RACT). In addition to the case-by-case RACT determinations listed below, the emission Sources at this facility are required to comply with the presumptive RACT requirements in 25 Pa. Code §129.112 and the alternative RACT (RACT II = RACT III) requirements in §129.114.

Source	RACT III Requirement
Simple Cycle Combustion Turbines Unit 1 & Unit 2 – Normal Operation	NO <sub>x</sub> – 25 ppm @ 15% O <sub>2</sub> (nat. gas); 42 ppm @ 15% O <sub>2</sub> (fuel oil) VOC – 2.8 ppm @ 15% O <sub>2</sub> (nat. gas); 0.6 ppm @ 15% O <sub>2</sub> (fuel oil)
Simple Cycle Combustion Turbines Unit 1 & Unit 2 – Startup/Shutdown	NO <sub>x</sub> – proper operation & maintenance; good engineering practice VOC – proper operation & maintenance; good engineering practice
Combined Cycle Combustion Turbines Unit 3 & Unit 4 – Normal Operation	NO <sub>x</sub> – 2.5 ppm @ 15% O <sub>2</sub> per 4-hour time period after 70% of full load VOC – 2 ppm @ 15% O <sub>2</sub> (as propane)
Combined Cycle Combustion Turbines Unit 3 & Unit 4 – Startup/Shutdown	NO <sub>x</sub> – proper operation & maintenance; good engineering practice VOC – proper operation & maintenance; good engineering practice
Emergency Generators EG01 & EG02	NO <sub>x</sub> – proper operation & maintenance; good engineering practice VOC – proper operation & maintenance; good engineering practice

Under Article XXI, §2103.11.e. and §2103.21.c, notice is also hereby given that the Allegheny County Health Department intends to issue a Title V Operating Permit to the following major facility subject to the operating permit requirements under Title V of the Federal Clean Air Act and Article XXI, Part C, Subparts 1 and 2. The renewal Title V Operating Permit will incorporate all RACT III requirements. The Administrator of the EPA is being notified of this proposed action.

**SPRINGDALE ENERGY, LLC (0580-OP24)**, Butler Street Extension, Springdale, PA 15144 for the operation of a commercial electric power generation facility consisting of two 48 MWe simple cycle combustion turbines, two 209 MWe combined cycle combustion turbine, a 186 MW heat recovery steam generator, and two 1,250 kW emergency generators. The facility also has a recirculating cooling tower, 20,000-gallon ammonia storage tank, 400,000-gallon fuel oil storage tank, and a 265 bhp emergency fire pump engine. The proposed Title V operating permit contains all applicable regulatory requirements including monitoring, recordkeeping and reporting conditions. The permit includes requirements from 40 CFR Part 60, Subpart GG – *Stationary Gas Turbines*. The facility is a major source of particulate matter, PM-10, PM-2.5, NO<sub>x</sub>, CO, and VOC, and is a minor source of SO<sub>x</sub> and HAP, as defined in §2102.20 of Article XXI.

Members of the public may request copies of the documents by emailing [aqpermits@alleghenycounty.us](mailto:aqpermits@alleghenycounty.us) or calling 412-578-8103. Written comments may be submitted to the Department at 836 Fulton Street, Pittsburgh, PA 15233 or by e-mail at

[agpermits@alleghenycounty.us](mailto:agpermits@alleghenycounty.us) by the end of the day on Tuesday, August 27, 2024.

A public hearing will be held regarding the proposed issuance of these permits on **Monday, August 26, 2024, at 6 pm** at the Springdale Borough Building, 325 School Street, Springdale, PA 15144. Anyone who would like to speak at the hearing should register online **at least 24 hours in advance** of the hearing on the Department's permits webpage at <https://alleghenycounty.us/AQnotices>. If no one is registered to give testimony at the hearing by Thursday, August 22 the hearing will be canceled. If the hearing is canceled, the Department will provide public notice on the webpage or through the contact information listed above.