



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 2

290 BROADWAY

NEW YORK, NY 10007-1866

February 16, 2023

VIA ELECTRONIC MAIL

Mr. Thomas Grace
Director-Environmental, Health and Safety
Caithness Energy, L.L.C.
Caithness Services, L.L.C.
960 Holmdel Road, BLDG II
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RE: Final Prevention of Significant Deterioration (PSD) of Air Quality Permit Revision:
Caithness Long Island Energy Center

Dear Mr. Grace:

Enclosed please find the final effective Prevention of Significant Deterioration (PSD) permit revisions for the Caithness Long Island Energy Center (CLIEC). These revisions address the request from CLIEC, received by the United States Environmental Protection Agency, Region 2 Office (EPA), on March 21, 2022, to revise the PSD permit initially issued by EPA on April 7, 2006, and revised on August 19, 2020 (2020 PSD permit)¹.

CLIEC is a 346 megawatt (MW) combined-cycle electric power generating facility located in the town of Brookhaven, Suffolk County, New York, and consists of a combined cycle combustion turbine generator (CT) and its associated heat recovery steam generator, an auxiliary boiler (AB), a fuel gas heater, and an emergency fire pump. Both the CT and AB are permitted to combust natural gas as the primary fuel and distillate fuel oil as the back-up fuel. The fuel gas heater and the heat recovery steam generator are permitted to combust only natural gas, and the emergency fire pump is permitted to combust only distillate fuel oil.

On March 21, 2022, CLIEC requested that EPA revise the 2020 PSD permit to (1) allow the AB to be operated simultaneously with the CT under the following additional three scenarios which were not anticipated by CLIEC in 2006 at the time of issuance of the initial PSD permit: (i) periodic testing of the AB following repairs and maintenance work on the AB as well as for any regulatory-required testing of the AB, to ensure that the AB will be ready and fully operational by the time the CT is not in operation; (ii) two (2) hours prior to the CT shutdown events (CT shutdown while on either natural gas or fuel oil); and (iii) during CT shutdown events (shutdown on either natural gas or fuel oil); (2) remove the PSD permit condition that establishes a maximum limit of 4,380 hours during any 12-month consecutive period for the duct burner (DB) and replace it with the DB's maximum heat input limit of 2,163,720 million British Thermal Units during any 12-month consecutive period; and (3) remove the fuel gas

¹A copy of the 2020 PSD permit is available on the EPA website at https://www.epa.gov/sites/default/files/2020-08/documents/final_permit.pdf. The 2020 PSD permit represented revisions to the April 7, 2006 initial PSD permit, a copy of which is also available on the EPA website at <https://www.epa.gov/caa-permitting/caithness-long-island-llc-brookhaven-ny>.

heater from the 2020 PSD permit, since it was already removed from service.² The revisions requested by CLIEC do not modify any emission limits included in the 2020 PSD permit.

On December 2, 2022, EPA issued a preliminary determination to approve the PSD permit revisions, subject to public review. The public comment period ended on January 3, 2023 and no public comments or requests for a public hearing were received. Thus, EPA has made no changes from the draft to the final permit.

EPA concludes that these final permit revisions meet all the applicable requirements of the PSD regulations at 40 C.F.R. § 52.21 and the Clean Air Act. Accordingly, I hereby approve CLIEC's revised PSD permit. Enclosed with this letter are the final PSD permit revisions (Enclosure I). This letter and the enclosed PSD permit represent EPA's issuance of the final permit decision addressing CLIEC's March 21, 2022, request. Since no changes were made from the draft permit, this final PSD permit is effective immediately. Notice of the Agency's final action with respect to this permit will be published in the Federal Register. The final PSD permit revisions and other key documents relevant to the final permit are available on the EPA's website at <https://www.epa.gov/caa-permitting/caa-permits-issued-epa-region-2#psd>.

If you have any questions, please contact Ms. Suilin Chan, Supervisor, Permitting Section, Air Programs Branch, at 212-637-4019 or at chan.suilin@epa.gov.

Sincerely,

Richard Ruvo, Director
Air and Radiation Division

Enclosure I

² CLIEC also requested that EPA remove the (1) SO₂ and H₂SO₄ BACT emission limits for the CT; (2) SO₂ BACT emission limits for the AB; and (3) performance testing requirements for the H₂SO₄ and SO₂ BACT emissions limits, from the 2020 PSD permit. As indicated in EPA's proposal, this action does not address CLIEC's request to remove BACT-related conditions. EPA previously communicated with CLIEC about this request during a May 9, 2022 call in which EPA discussed the lack of a regulatory basis for removing the current permit's BACT emission limits.

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