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October 6, 2023
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Mr. George Streit
George.streit@nrgenergy.com
Dunkirk Power LLC
106 Point Drive North
Dunkirk, NY 14048

Re: CCR Landfill 2023 Annual Inspection
Dunkirk Generating Station
Van Buren Road
Pomfret, New York

Dear Mr. Streit:

GZA GeoEnvironmental of New York (GZA) presents this 2023 Annual Landfill Inspection report to Dunkirk Power LLC (Dunkirk) for the existing coal combustion residuals (CCR) landfill units at the Dunkirk Generating Station landfill located in Pomfret, New York (Site). This annual inspection is required by the United States Environmental Protection Agencies (USEPA) Hazardous and Solid Waste Management System; Disposal of Coal Combustion Residuals from Electric Utilities; Final Rule, as presented in the Federal Register Volume 80 No 74 dated April 17, 2015. In accordance with the CCR Rule (40 CFR 257.84), owners/operators of CCR landfill units are required to be inspected on a periodic basis by a qualified professional engineer to check the design, construction, operation and maintenance of the CCR unit, consistent with recognized and generally accepted good engineering standards.

Document Review

The required periodic inspections presented in the CCR Rule are for open and active landfills and not required for closed or inactive landfills. As such, the ash waste cells for the Site that are considered to be active are identified as Phase 2, Cells A and B-1. We note that these active portions of the landfill have a temporary cover system consisting of an approximate 12-inches of vegetated soil covering the previously exposed CCR waste. As a result, contact water (i.e., stormwater runoff over exposed CCR waste) runoff is not generated, rather stormwater runoff is considered clean and uncontaminated.

The Site landfill cells identified as Phase 1, Cells A and B (excluding a small portion of the northern Phase I Cells A and B) and the eastern portion of Phase 2, Cell A are considered closed and are not included with this annual inspection report. The limits



of the active cells requiring this annual inspection report are shown on the attached figure prepared by Wendel for the 2022 fill progression survey (see **Figure 1**).

A constructed landfill cell designated as Phase 2, Cell B-2 (adjacent to Phase 2, Cell B-1 on the west) has never received waste ash and there are currently no future plans for this cell to receive coal ash waste, although accumulated stormwater in this cell currently discharges into the active leachate collection system.

The Dunkirk Power landfill is currently permitted (ID#9-0658-00021/00008) with the New York State Department of Environmental Conservation (NYSDEC) to accept residual coal ash waste generated from the Dunkirk Power facility. This permit was to expire on May 22, 2021 and is currently undergoing the permit renewal process with NYSDEC to extend the Site permit for an additional ten-year period. A review of the 2022 (most recent) fill progression assessment for the Phase 2 Cells A and B-1 indicates the following information.

| Phase 2 Landfill Cell | Ash/Material Received 2022 (cy) | Current Ash Volume (cy) | Volume Remaining (cy) |
|-------------------------|---------------------------------|-------------------------|-----------------------|
| Cell A (western extent) | 0 | 721,070 | 26,952 |
| Cell B* | 120 | 227,626 | 536,283 |
| Totals for A & B-1 | 120 | 948,696 | 563,235 |

cy = cubic yards

*Reported volume remaining in Cell B includes potential volume of Cell B-1 and B-2

The 2023 weekly landfill inspection forms prepared by Dunkirk Power personnel did not identify any concerns or complaints related to the operation and/or maintenance of the active ash landfill cells as these cells have had a temporary cover of vegetated topsoil.

Site Observations

GZA visited the Site on September 12, 2023 to make observations of the active landfill cell areas. During our visit, the landfill Cell A (area west of the upper intermediate berm) and Cell B-1 were observed covered with a temporary vegetated cover soil over the previously graded ash waste. Access to the top of the active landfill areas is made via an access road between Phase 1 and Phase 2 landfills. The access road was observed in good condition with little to no evidence of erosion or instability. Observations of the vegetated side slopes and top areas of the active cells identified no areas of actual or potential structural weaknesses and no significant areas of exposed ash waste was observed. Evidence of recent grass mowing activities on the observed landfills was not readily apparent.

Overall, the temporarily covered areas of the active landfill cells appeared to be similar to the previous year’s inspection observations and were graded in general accordance with the proposed design configurations. The side slopes and other areas were observed in good condition with no evidence of actual, or potential for, structural instability or erosion. Similar to the most recent inspection made in

