



590 Plant Road
PO Box 187
Dresden, NY 14441
315-536-2359

March 26, 2019

Colleen Kimble
Unit Leader, Energy
Bureau of Habitat
New York State Department of Environmental Conservation
625 Broadway
Albany, NY 12233

Subject: **Status Report at 2.5 Years after EDP**
Greenidge Generation SPDES No. NY0001325

Dear Ms. Kimble:

This document constitutes Greenidge Generation's 2.5 year status report (Biological Requirement 11) on actions taken to satisfy the Biological Requirements 1 through 7 of SPDES permit NY0001325, which had an EDP of October 1, 2017.

Operation over Previous 2 Years

During 2018 and 2019, Greenidge Generation operated at relatively low levels of generation (see Table 1). Capacity factor in 2018 was 20%, and 6% during 2019. Cooling water flows were also substantially less than the maximum flow rate of 68,000 gpm.

Status of Biological Requirements

Status of Biological Requirements 1 through 7 is provided in Table 2. The requirements, in brief, are:

- | | |
|---|-------------|
| 1. BTA is defined as Variable Speed Pumps & Cylindrical Wedgewire Screens | In Progress |
| 2. Description of VSP Installation | Completed |
| 3. VSP Installed | Completed |
| 4. CWWS Pilot Study Plan | Completed |
| a. CWWS Progress Report | Completed |
| b. CWWS Final Report | In Progress |
| 5. TIOP | In Progress |
| 6. Verification Monitoring Plan | Not Due Yet |
| 7. Demonstration of Compliance | Not Due Yet |

If you have any questions about the status of these items, please feel free to contact me.

Sincerely yours,

A handwritten signature in black ink, appearing to read "Dale Irwin", is written over the "Sincerely yours," text.

Dale Irwin



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Table 1 Mean monthly cooling water flow and net generation during 2018 and 2019.

| Month | 2018 | | 2019 | |
|-------|-------------------------------|-------------------|-------------------------------|-------------------|
| | Mean Cooling Water Flow (gpm) | Generation (kwhr) | Mean Cooling Water Flow (gpm) | Generation (kwhr) |
| Jan | 43,079 | 39,655 | 30,375 | 21,596 |
| Feb | 22,599 | 11,705 | 27,490 | 2,803 |
| Mar | 24,083 | 1,057 | 13,039 | 0 |
| Apr | 23,013 | 12,735 | 7,241 | 0 |
| May | 39,362 | 22,889 | 20,290 | 669 |
| Jun | 27,450 | 11,777 | 12,846 | 1,467 |
| Jul | 47,009 | 38,414 | 35,339 | 15,899 |
| Aug | 50,756 | 33,832 | 28,943 | 10,040 |
| Sep | 17,259 | 14,019 | 16,845 | 1,528 |
| Oct | 10,724 | 4,136 | 5,349 | 1,677 |
| Nov | 10,452 | 0 | 0 | 0 |
| Dec | 3,717 | 0 | 0 | 0 |



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Table 1 Status of Biological Requirements 1 through 7, as of 2.5 years from EDP.

| Biological Requirements | | | Due Date | Completion Date | Status |
|-------------------------------|---|-------------------------------------|------------|-----------------|---|
| Best Technology Available | 1 | BTA is WWS and VSP | None | N/A | Installation of BTA elements is proceeding according to the permit schedule. |
| Variable Speed Drives | 2 | Description of VSD Installation | 4/1/2018 | June 2018 | Due to the unique cooling water delivery system at Greenidge, and the technical challenges that it caused in designing an appropriate VSD system, Greenidge requested, and NYSDEC approved, an extension until June 30 for submittal of the installation design description. The VSD installation design was completed and submitted to NYSDEC June 27, 2018. |
| | 3 | Complete installation of VSDs | 10/1/2019 | June 2019 | Variable frequency drive units were installed in the existing pumphouse in June 2019. |
| Cylindrical Wedgewire Screens | 4 | CWWS Pilot Study Plan | 4/1/2018 | March 2018 | The CWWS Pilot Study plan was submitted to NYSDEC on 3/28/18, and approved by NYSDEC on 4/18/2018. The plan included the first year of the two years of entrainment monitoring (Biological Requirement 6). |
| | | CWWS - 6 month progress report | 10/31/2019 | October 2019 | The 6-month progress report on the CWWS Pilot Study was submitted following conclusion of field sampling. |
| | | Implement the CWWS Pilot Study Plan | N/A | N/A | Conducted the CWWS Pilot Study Plan, with field work occurring from April 2019-October 2019, as approved by NYSDEC. |
| | | CWWS - Final report | 4/30/2020 | N/A | In progress. The final report on the CWWS Pilot Study will be submitted pursuant to the NYSDEC approved schedule (April, 2020). |



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| Biological Requirements | | | Due Date | Completion Date | Status |
|--|---|--|--|-----------------|--|
| Technology Installation & Operation Plan | 5 | Technology Installation & Operation Plan | 3 Months after approval of CWWS Pilot Study Report | N/A | In progress. Will include recommended design of CWWS installation, and all other required elements. |
| Verification Monitoring Plan | 6 | Verification Monitoring Plan | 3 months after approval of TIOP | N/A | Verification Monitoring Plan will incorporate all elements required by the permit, including the remaining entrainment monitoring, and will be submitted to NYSDEC within 3 months of NYSDEC's approval of the TIOP. |
| | 7 | Verification Monitoring Plan Report | 6 months after completion of the VMP Study | N/A | The Verification Monitoring Plan report will be completed and submitted to NYSDEC within 6 months of completion of the Verification Monitoring Plan study. |