

**State of Georgia
Department of Natural Resources
Environmental Protection Division**

Permit No. 2499-075-0028-E-01-1

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5.3 The Permittee shall install, calibrate, maintain, and operate monitoring devices for the measurement of the indicated parameters on the following equipment. Data shall be recorded at the frequency specified below. Where such performance specification(s) exist, each system shall meet the applicable performance specification(s) of the Division's monitoring requirements.

[391-3-1-.02(6)(b)1.]

- a. A device for the measurement of total secondary voltage (kilovolts) of each field of the wet electrostatic precipitator (ID No. WESP). Such device shall have a required accuracy of approximately 2%. Data shall be recorded hourly when the associated energy system and dryers (ID Nos. ES and DRY1 – DRY3) are in operation.
- b. A device for the measurement of total secondary current (milliamps) of each field of the wet electrostatic precipitator (ID No. WESP). Such device shall have a required accuracy of approximately 2%. Data shall be recorded hourly when the associated energy system and dryers (ID Nos. ES and DRY1 – DRY3) are in operation.
- c. A device for the measurement of pressure drop across the baghouses (Group ID No. BGH) and quad cyclones (ID Nos. QUAD1 and QUAD2). Data shall be recorded weekly.

5.4 The Permittee shall, using the hourly secondary voltages and secondary currents, obtained in accordance with Conditions 5.3a. and b., and the following equation, determine and record the total secondary power for each field of the wet electrostatic precipitator (ID No. WESP).

[391-3-1-.02(6)(b)1.]

$$P_t = \sum_{i=1}^n (V_i * I_i)$$

Where: P_t = Total ESP power (watts)
V_i = Secondary volts (kV), ESP field i
I_i = Secondary current (ma), ESP field I
n = Total number of fields

5.5 The Permittee shall, for each day or portion of a day that the regenerative thermal oxidizer (ID No. RTO, via Stack S1) and biofilter (ID No. BIO, via Stack S2) are operated, conduct a check of visible emissions from each control device. The Permittee shall retain a record in a daily visible emissions (VE) log suitable for inspection or submittal, upon request. Should the Permittee be unable to conduct the required VE check when atmospheric conditions or sun position prevent a daily reading, no VE check is required and the Permittee shall indicate such in the VE log. Any operational day when atmospheric conditions or sun position prevent a daily reading shall be reported semiannually as monitor downtime/excursion. The check shall be conducted using the following procedure:

[391-3-1-.02(6)(b)1.]