

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

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

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- c. The amount of wood, in tons, processed through the finished pellet silos (ID Nos. SILO1 – SILO16), combined.
- d. The amount of wet wood, in tons, burned in the burners (ID Nos. BUR5 and BUR6), combined. The Permittee shall convert the ton/month wet wood burned into the total heat input rate into BUR5 and BUR6, combined, in the unit of MMBtu/month with wet wood.
- e. The amount of dry wood, in tons, burned in the burners (ID Nos. BUR5 and BUR6), combined. The Permittee shall convert the ton/month dry wood burned into the total heat input rate into BUR5 and BUR6, combined, in the unit of MMBtu/month with dry wood.
- g. The total amount of natural gas, in million cubic feet/month, burned in the boiler (ID No. BLR).

7.18 Upon the initial startup of Phase II, the Permittee shall calculate and record the amount of NO<sub>x</sub> emissions from the entire facility in each calendar month, using the following equation:  
[391-3-1-.02(6)(b)1.]

$$ER_{NO_x} = [(EF_{NO_x/S1} * H_B) + (EF_{NO_x/BLR}) * (H_{BLR})] / 2,000$$

Where:

- ER<sub>NO<sub>x</sub></sub> = Monthly NO<sub>x</sub> emission rate from the entire facility, in tons per month.
- EF<sub>NO<sub>x</sub>/S1</sub> = NO<sub>x</sub> emission factor for Stack S1, in lbs NO<sub>x</sub>/MMBtu, determined in the most recent performance tests per Condition 6.12a. Before the initial performance test is conducted, the Permittee is allowed to use the NO<sub>x</sub> emission factor in Table 7.18 below.
- H<sub>B</sub> = Monthly combined heat input into BUR5 and BUR6, combined, determined and recorded in accordance with Conditions 7.16d. and e.
- EF<sub>NO<sub>x</sub>/BLR</sub> = U.S. EPA AP-42 NO<sub>x</sub> emission factor for Boiler BLR, 100 pounds NO<sub>x</sub> per million cubic feet of natural gas (100 lbs NO<sub>x</sub>/MMcf NG).
- H<sub>BLR</sub> = Monthly natural gas consumption by Boiler BLR, in MMcf NG/mo, determined and recorded in accordance with Condition 7.16g.
- 2,000 = Conversion Factor to Convert Pound into Ton.

Table 7.18: NO<sub>x</sub> Emission Factor That Should Be Used Before Any Test Results Are Available

| Pollutant       | Stack S1 (BIO Outlet) |
|-----------------|-----------------------|
|                 | BUR5 and BUR6         |
| NO <sub>x</sub> | 0.194 lb/MMBtu        |

The Permittee shall use the monthly records to calculate the facility-wide NO<sub>x</sub> emissions during each calendar month. The Permittee shall notify the Division in writing if the facility-wide NO<sub>x</sub> emissions exceed 20.75 tons during any calendar month. This notification shall be postmarked by the fifteenth day of the following month and shall include an explanation of how