

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

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

Page 14 of 29

Table 7.8: NOx Emission Factor That Should Be Used Before Any Test Results Are Available

Pollutant	Stack S1 (RTO Outlet)
	Energy System ES
NOx	0.172 lb/MMBtu

The Permittee shall use the monthly records to calculate the facility-wide NOx emissions during each calendar month. The Permittee shall notify the Division in writing if the facility-wide NOx 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 the Permittee intends to maintain compliance with the NOx emission limitation in Condition 2.1.

- 7.9 The Permittee shall calculate and record the amount of CO emissions from the entire facility in each calendar month, using the following equation:
[391-3-1-.02(6)(b)1.]

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

Where:

- ER_{CO} = Monthly CO emission rate from the entire facility, in tons per month.
- EF_{CO/S1} = CO emission factor for Stack S1, in lbs CO/MMBtu, determined in the most recent performance tests per Condition 6.6b. Before the initial performance test is conducted, the Permittee is allowed to use the CO emission factor in Table 7.9 below.
- H_B = Monthly combined heat input into Energy System ES, determined and recorded in accordance with Conditions 7.6d. and e.
- EF_{CO/BLR} = U.S. EPA AP-42 CO emission factor for Boiler BLR, 84 lbs CO/MMcf NG.
- H_{BLR} = Monthly natural gas consumption by Boiler BLR, in MMcf NG/mo, determined and recorded in accordance with Condition 7.6i.
- EF_{CO/SILO} = CO emission factor for Finished Pellet Silos SILO1 – SILO6, in lbs CO/ton wood, determined in the most recent performance tests per Condition 6.6c. Before the initial performance test is conducted, the Permittee is allowed to use the CO emission factor in Table 7.9 below.
- W_{SILO} = Monthly throughput of SILO1 – SILO6, determined and recorded in accordance with Condition 7.6c.
- 2,000 = Conversion factor to convert pounds into tons.

Table 7.9: CO Emission Factor That Should Be Used Before Any Test Results Are Available

Pollutant	Stack S1 (RTO Outlet)	No Stack ID
	Energy System ES	SILO1 – SILO6
CO	0.172 lb/MMBtu	0 lb/ton wood output