

Emission Units			Associated Control Devices	
Source Code	Description	Applicable Requirements	Source Code	Description
ES	210 MMBtu/hr wood-fired energy system	391-3-1-.02(2)(b) 391-3-1-.02(2)(g)	WESP RTO	Wet electrostatic precipitator, regenerative thermal oxidizer
DRY1-3	Three (3) wood dryers	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	WESP RTO	Wet electrostatic precipitator, regenerative thermal oxidizer
DHM1-3	Three (3) dry hammermills	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CYC1-CYC3 BGH ES	Cyclones (respective), baghouses, dryer burners
DHM4-8	Five (5) dry hammermills	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	CYC4-CYC8 WESP RTO	Cyclones (respective), wet electrostatic precipitator, regenerative thermal oxidizer
DWB1 & DWB2	Two (2) dry wood bins	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	WESP RTO	Wet electrostatic precipitator, regenerative thermal oxidizer
PM1-8	Eight (8) pellet mills	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	BIO	Biofilter
COOL1&2	Two (2) pellet coolers	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	QUAD1/QUAD2 BIO	Quad cyclones, biofilter
SILO1-6	Six (6) finished pellet storage silos	391-3-1-.02(2)(b) 391-3-1-.02(2)(e)	--	--

Fuel Burning Equipment

Source Code	Input Heat Capacity (MMBtu/hr)	Description	Installation Date	Construction Date
BLR	9.9	Natural gas-fired boiler	TBD	TBD

Emissions Summary

All modifications requested by the facility will apply exclusively to Phase I of the project. The emission units in Phase II will not be modified in any way.

Emissions, from all equipment in Phase I and Phase II, of PM, NO_x, CO, and VOC will all continue to be limited to no more than 249 tpy, each, to keep the facility a minor source under PSD. Facility-wide emissions of single and combined HAPs will continue to be limited to no more than 10 and 25 tpy, respectively, to avoid the requirements of the case-by-case Maximum Achievable Control Technology (MACT) specified in 40 CFR 63 Subpart B.

All emissions were calculated assuming the maximum annual throughput of 600,000 tons and 8,760 hours per year of operation. VOC, acetaldehyde, formaldehyde, and methanol emissions from the dryers (ID Nos. DRY1, DRY2, and DRY3), hammermills (ID Nos. DHM1-DHM8), pellet mills (ID Nos. PM1-PM8), and pellet coolers (ID Nos. COOL1 and COOL2) were calculated using uncontrolled pellet mill emission factors recommended by the Division (see memo dated 1/29/2013). Acrolein, phenol, and propionaldehyde emissions from these processes were calculated using uncontrolled emission factors referenced from the South Carolina Department of Health and Environmental Control. Emissions of HCl were referenced from testing conducted at Hazlehurst Wood Pellets in March of 2021 because both facilities are similar pellet producing facilities and their dryer burners both burn wood.