Va. 435205 v. 2

SECTION 1.0

INTRODUCTION

1.0 INTRODUCTION

1.1 Background

Weyerhaeuser Company owns and operates a plywood and lumber mill in Dierks, Arkansas (Howard County). The facility, which produces plywood and lumber from soft woods (primarily Southern Pine), has been in existence since 1917. Registration forms were filed with the ADPCE on October 27, 1969. Currently, the facility operates under Permit No. 023-AR-2. As requested by the ADPCE, this application was prepared in order to apply for a single consolidated permit.

The Dierks facility consists of three process areas: the lumber plant, the plywood plant, and the powerhouse. Each of the processes has the potential to emit air contaminants.

The lumber plant was in operation in 1970 when the S-6 Sawmill began operating. Current capacities of the lumber mill are 24,500 board feet per hour (24.5 MBF/hr) and 214.62 million board feet per year (214.62 MMBF/yr). Emission sources associated with the lumber mill include four steam-heated dry kilns, and six cyclones and a baghouse that collect wood waste chips, shavings, and sawdust from the sawing and planing processes. Emissions expected from the kilns are volatile organic compounds (VOC), carbon monoxide (CO), particulate matter (PM), particulate matter less than 10 microns in diameter (PM_{10}), and formaldehyde (HCHO). Only PM and PM_{10} emissions are expected from the baghouse and cyclones.

The plywood plant started plywood production in 1970. Current capacities of the plywood plant are 23,000 square feet per hour (23 MSF/hr) and 201.48 million square feet per year (201.48 MMSF/yr), both on a 3/8 inch basis. Emission sources associated with the plywood mill include a veneer dryer, two plywood presses, and seven cyclones that collect wood waste chips, shavings, and sawdust from the various operations

in the mill. The veneer dryer was originally heated by steam provided by the powerhouse; however, a modification was approved by ADPCE on 9/10/92 that allows the addition of three natural gas fired burners to the first 24 doors of the 95-door in-line dryer. Emissions expected from the dryer, including the gas burners, are PM (as PM_{10}), VOC, CO, nitrogen oxides (NO_x), and sulfur dioxide (SO_2).

The powerhouse was in operation before 1970. Three wood-waste fired boilers produce steam that is utilized in the lumber kilns and veneer dryer. Collective steam production capacities of the powerhouse are 210,000 pounds per hour (210 Mlb/hr) and 1.84 billion lb/yr. Emissions expected from the boilers are VOC, HCHO, CO, NO_x, PM, and SO_2. In addition to the boilers, there are five cyclones located in the powerhouse area to minimize emissions associated with transferring hogged fuel.

This document constitutes Weyerhaeuser Company's application for an ADPCE facility-wide permit at the Dierks facility. The application contains the completed ADPCE application forms and all supporting documentation needed to fulfill the ADPCE general permitting requirements. All current emission points and estimated emission rates of each process are included and discussed, as requested by ADPCE in order to apply for a single, consolidated permit.