

## 11.13 TUB GRINDERS

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### Process Description

This chapter covers the permitting of tub grinders. Tub grinders are typically used to grind wood pieces from bigger to smaller pieces. The tub grinder may be powered by electricity or by a diesel engine. The tub grinder may be stationary and located primarily within one facility's boundaries, or may be portable from one location to another.

### Completeness Determination

The following District forms should be completed and fees provided for tub grinders. Use the [Completeness Determination Checklist](#) to verify completeness. Use the [Data Form Guidance](#) to ensure that the forms are completed correctly. Use the [Fee Calculation Guidance](#) to ensure that the fees are calculated accurately.

1. [Form 101-B](#) (one for facility).
2. [Form G](#) (one per source).
3. [Form A](#) for watering system (one per facility)
4. [Form A](#) (one per device) for any particulate abatement device (i.e., baghouse).
5. Fees, calculated per [Regulation 3 \(Schedule F\)](#).
6. If the tub grinder is powered by a diesel engine, refer to the permit handbook chapter for stationary ([2.3.1](#)) or portable ([2.3.3](#)) diesel engines for additional forms and fees that are required for the diesel engine.

### Emission Calculations

To approximate the particulate emissions for wood grinding, the emission factor for "Log Debarking" from a previous edition of AP-42, Table 10.3-1 of (0.024 lb TSP/ton) will be used with the throughput quantity of wood processed, as provided by the applicant. Approximately 60% of the particulate emissions are assumed to be PM10. Water suppression will also provide 50% abatement of particulate emissions.

$$\text{PM10 (lb/yr)} = (\text{THROUGHPUT tons/yr})(0.024 \text{ lb TSP/ton})(0.60 \text{ lb PM10/lb TSP})(0.50)$$

If the tub grinder is powered by electricity, there are no other criteria pollutant emissions. However, if it is powered by a diesel engine, emissions from the diesel engines must also be added to that of the tub grinder. Refer to the permit handbook chapter for stationary ([2.3.1](#)) or portable ([2.3.3](#)) diesel engines for emission calculation procedures for the combustion of diesel fuel.

### Applicable Requirements

#### District Rules and Regulations

The tub grinder is subject to the requirements of Regulation 6 (Particulate Matter and Visible Emissions Standards). If the tub grinder is powered by a diesel engine, refer to the permit handbook chapter for stationary ([2.3.1](#)) or portable ([2.3.3](#)) diesel engines for applicable requirements.

#### California Environmental Quality Act (CEQA)

Permit applications which are reviewed following the specific procedures, fixed standards and objective measurements set forth in this chapter (11.13) are classified as ministerial and will accordingly be exempt from CEQA review per [Regulation 2-1-311](#).

In addition to the above-mentioned source-specific applicable requirements, other requirements may also be applicable depending on the facility, its application emissions, and its source location:

- Offsets
- Risk Screening Analysis
- Prevention of Significant Deterioration

### Permit Conditions

Standardized conditions for tub grinders are available from the [Permit Condition Guidance](#). Refer to the [Evaluation Report Template Guidance](#) to obtain the Microsoft Word formatted permit conditions for this source category.