



State of Oregon Department of Environmental Quality
**Air Curtain Incinerator Permit
Application**
Form AQ227 Instructions

Applicants for an air curtain incinerator (ACI) permit must fill out the forms and develop the required plans listed below. These materials must be submitted along with the application fees to the DEQ Financial Services – Revenue Section, as indicated on AQ101.

AQ101 Administrative Information

- Follow [AQ101 Instructions](#)

AQ100CAO Cleaner Air Oregon Pre-Application Fee Form

- Follow [AQ100CAO Instructions](#)

AQ102 Facility Description:

- Map (showing location of stationary ACI or with potential locations for portable ACIs)
- Plot plan (showing placement of ACI meets required distances)
- Land Use Compatibility Statement

AQ210 Internal Combustion Engines and Turbines

- Indicate whether engine is used to move ACI

AQ227 Air Curtain Incinerators

Commercial and industrial air curtain incinerators are only allowed to burn the materials listed below in A, B, and D. Institutional ACIs are only allowed to burn less than 35 tons per day of the authorized materials listed below collected from the general public and from residential, commercial, institutional, and industrial sources or, for ACIs located at institutional facilities, the materials listed below generated at that facility:

- 100% wood waste. Wood waste means untreated wood and untreated wood products, including tree stumps (whole or chipped), trees, tree limbs (whole or chipped), bark, sawdust, chips, scraps, slabs, millings and shavings. Wood waste does not include:
 1. Grass, grass clippings, bushes, shrubs, and clippings from bushes and shrubs from residential, commercial/retail, institutional, or industrial sources as part of maintaining yards or other private or public lands;
 2. Construction, renovation, or demolition wastes; and
 3. Clean lumber;
- 100% clean lumber. Clean lumber means wood or wood products that have been cut or shaped and include wet, air-dried, and kiln-dried wood products. Clean lumber does not include wood products that have been painted, pigment-stained, or pressure-treated by compounds such as chromate copper arsenate, pentachlorophenol, and creosote;
- 100% yard waste. Yard waste means grass, grass clippings, bushes, shrubs and clippings from bushes and shrubs. Only yard waste incidental to land clearing is allowed. They come from

residential, commercial/retail, institutional, or industrial sources as part of maintaining yards or other private or public lands. Yard waste does not include two items:

1. Construction, renovation, and demolition wastes that are exempt from the definition of “municipal solid waste” in §60.1465.
 2. Clean wood that is exempt from the definition of “municipal solid waste” in §60.1465; and
- D. 100% mixture of wood waste, clean lumber and/or yard waste.

An ACI is not allowed to burn the following materials:

- A. Construction, renovation or demolition wastes;
- B. Treated wood and treated wood products, including wood products that have been painted, pigment-stained, or pressure treated by compounds such as chromate copper arsenate, pentachlorophenol, and creosote or manufactured wood products that contain adhesives or resins (e.g. plywood, particle board, flake board, and orientated strand board.); and
- C. Heavy oils, asphaltic materials, items containing natural or synthetic rubber, tires, grass clippings, collected leaves, paper products, plastics, general trash, garbage.

Operations Plan

The applicant must submit a draft Operations Plan for DEQ approval that includes the following components:

- **Materials Stockpile Plan**
The Materials Stockpile Plan must describe how the applicant will ensure that authorized materials are managed in a safe manner that minimized environmental impacts.
- **Startup/Shutdown Plan**
The Startup/Shutdown Plan must describe how the applicant will minimize smoke and emissions from the ACI during startup/shutdown operations.
- **Authorized Materials Management Plan**
The Authorized Materials Management Plan must describe how the applicant will ensure that only authorized materials will be burned and the associated monitoring that will be done.
- **Ash/Biochar Removal and Disposal Plan**
The Ash/Biochar Removal and Disposal Plan must describe how the applicant will minimize fugitive emissions during ash handling.

The final Operations Plan will be approved when the permit is issued.

AQ402 Requested annual plant site emission limits

The applicant must submit calculations of annual emissions of criteria pollutants that include annual production rates, the emission factors and references for the emission factors.

AQ405CAO Emissions Inventory for Toxic Air Contaminants

The applicant must submit calculations of daily and annual emissions of toxic air contaminants that include annual production rates, the emission factors and references for the emission factors. Emissions of toxic air contaminants should be calculated for potential to emit and actual emissions. [NOTE: emissions of hazardous air pollutants must also be included in this form.]