

Busch rolling mill fume control and air permits for Aluminum plants

An example of the comprehensive
information in the Mcilvaine Global
Decisions Orchard

Global Decisions Orchard

(reached through Free News at www.mcilvaine.com)

(a free site by McIlvaine) [中文信息](#)

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Global Decisions Orchard access by decisive classification

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Select Alumina in the application links

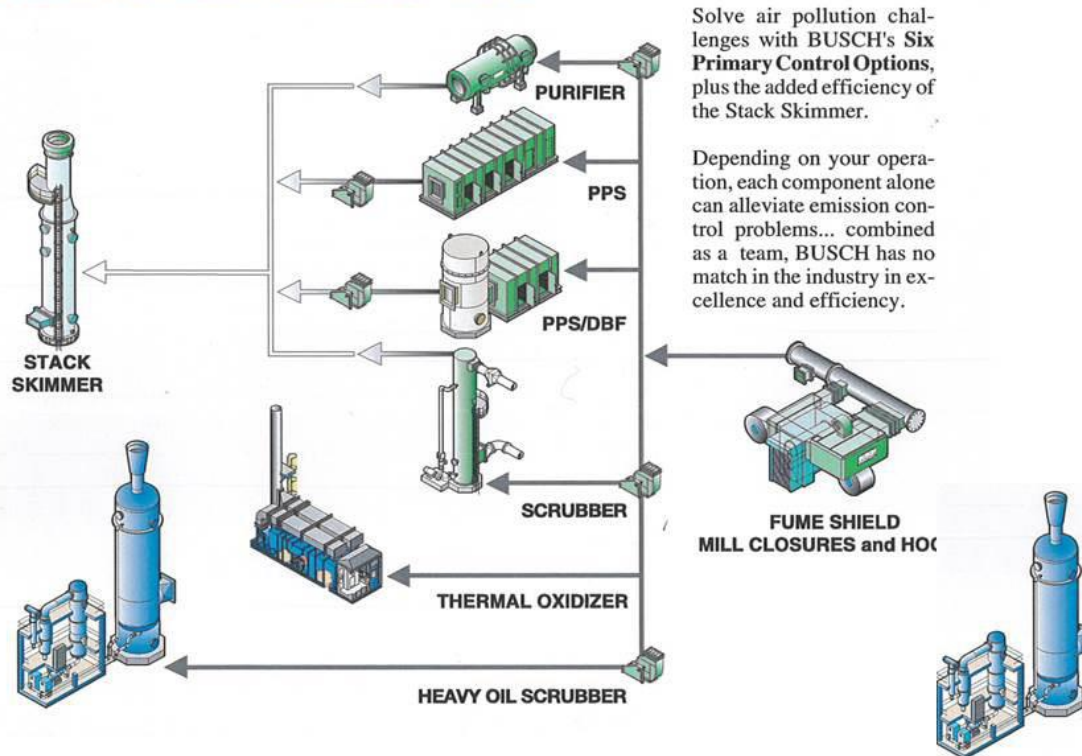
- [111000 - Agriculture, Forestry, Hunting and Fishing](#)
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- [112511 - Finfish Farming and Fish Hatcheries](#)
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- [212111 - Bituminous Coal and Lignite Surface Mining](#)
- [212210 - Iron Ore Mining](#)
- [212231 - Lead Ore and Zinc Ore Mining](#)
- [212234 - Copper Ore and Nickel Ore Mining](#)
- [212299 - All Other Metal Ore Mining](#)
- [212311 - Dimension Stone Mining and Quarrying](#)
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- [221113 - Nuclear Electric Power Generation](#)
- [325312 - Phosphatic Fertilizer Manufacturing](#)
- [325412 - Pharmaceutical Preparation Manufacturing](#)
- [325630 - Cosmetics Water Treatment *](#)
- [325998 - All Other Miscellaneous Chemical Product and Preparation](#)
- [326121 - Unsupported Plastics Profile Shape Manufacturing](#)
- [326140 - Polystyrene Foam Product Manufacturing](#)
- [327215 - Glass Product Manufacturing Made of Purchased Glass](#)
- [327310 - Cement Manufacturing 水泥生产](#)
- [331111 - Iron and Steel Mills](#)
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- [331313 - Alumina Refining and Primary Aluminum Production](#)
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- [331314 - Secondary Smelting and Alloying of Aluminum](#)
- [331523 - Nonferrous Metal Die-Casting Foundries](#)
- [332431 - Metal Can Manufacturing](#)
- [333618 - Other Engine Equipment Manufacturing](#)
- [333911 - Pump and Pumping Equipment Manufacturing 泵和泵设备制造](#)
- [334112 - Computer Storage Device Manufacturing](#)
- [334119 - Other Computer Peripheral Equipment Manufacturing](#)
- [334412 - Bare Printed Circuit Board Manufacturing](#)
- [334413 - Semiconductor and Other Electronic Component Manufacturing](#)
- [335312 - Motor and Generator Manufacturing](#)
- [335991 - Carbon and Graphite Product Manufacturing](#)
- [336111 - Automobile Manufacturing 汽车制造](#)

Articles and permits linked from Aluminum Rolling Mills

- [Rolling mill oil recovery with CECO Bush systems](#)Article:
- [Achenbach reduces fume hood air requirement by 50% for aluminum rolling mill oil vapors](#)
- [Alcoa Davenport Works Air Permit](#)
- [Alcoa Massena Operations Title V Air Permit Renewal](#)Permit:
- [Alcoa Wenatchee Works Air Operating Permit](#)
- **Busch Foil mill hot oil scrubbing system**
- **Aluminum Hot Rolling mill with Busch System**
- There are links to information from two suppliers of rolling fume exhaust
- The other three links are to recent permit renewals for rolling mills
- These permits are often hundreds of pages in length with detailed information on existing equipment and plans
- Permits are renewed every 5 years
- Mcilvaine is continually adding the latest permits to the system
- Only a few of these permits are linked from the free site. The rest are in [N032 Industrial Air Plants and Projects](#)

CECO-Busch emission control options

BUSCH'S EMISSION CONTROL OPTIONS



<http://www.buschintl.com/Documents/Fume-exhaust/PPS-DBF.pdf>

Alcoa Davenport installing new Busch purifiers in automotive aluminum expansion

[Alcoa Davenport Works Air Permit](#)

- This permit was submitted to receive approval for an automotive aluminum expansion at the Alcoa Davenport mill. The emissions limits will be met by the following changes to the existing system.
- Existing Cyclone is being replaced by with a fixed media design
- Four existing Busch purifiers are removed and replaced with two high efficiency Busch PPS Mist Elimination units
- PPS units will utilize 3 stage configuration with first stage droplet separator followed by a second stage high efficiency Busch Series 800 eliminator section

Facility Name: Alcoa Inc. - Davenport Works (as displayed in Mcilvaine Industrial Air Plants and People)

Address: 4879 State Street

Riverdale, Iowa 52722 **County:** Scott

Primary Contact Name: Mitchell, John Environmental Specialist

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Fax: 563-459-1967

E-mail: john.mitchell@alcoa.com

Busch heavy oil scrubbing systems used in foil mills

- A major aluminum foil manufacturer selected Busch to provide our new Heavy Oil scrubbing system for two foil mills.
- The Busch HOS system is designed to capture both mist and vapor phase emissions. The collected rolling oil is then reclaimed and returned to the mill for reuse.
- The scope of work included a complete fume exhaust system from duct connections at the mills thru the scrubber discharge stack.
- The project was made more challenging by the fact that the entire system was required to fit inside of the building in very cramped quarters.
- Busch engineering provided detail arrangement drawings for construction, and installation went very smoothly.
- The system currently reclaims large quantities of rolling oil for reuse which is a major cost advantage. Outlet emissions are well under mandated levels.
- <http://www.buschintl.com/Documents/HOS-Case-History-and-Brochure.pdf>

Aluminum hot rolling mill with Busch oil capture system

- The system includes Drip Resistant mill hoods which help to improve product quality. The mill enclosure includes a custom curved rollup door to facilitate easier roll changes and lift-out duct sections are included behind the mill to simplify maintenance operations.
- The lift-off hoods incorporate internal fire-protection piping and exterior ladders for access to grated top walking surfaces. The collection technology utilized low maintenance Busch Purifiers to meet emission requirements.
- The client was so pleased with the system's capture efficiency that they immediately ordered a similar fume exhaust system for a second hot mill at the same facility. This second system has just been completed with similar results
- <http://www.buschintl.com/Documents/Case%20history%20-%20Alum%20Hot%20Mill.pdf>

CECO locations around the world as displayed in Mcilvaine OEM Directory

- [CECO Environmental - NC, USA, 1](#)
- [CECO Environmental / Fisher-Klosterman/ Buell Dv. - PA, USA, 3](#)
- [CECO Environmental / Met-Pro Corp./ Dean Pump Dv./Fybroc Dv. - IN, USA, 3](#)
- [CECO Environmental Corporation - IL, USA, 1](#)
- [CECO Environmental Corporation - OH, USA, 3](#)
- [CECO Environmental/ A.V.C. Specialists, Inc. - CA, USA, 4](#)
- [CECO Environmental/ A.V.C. Specialists, Inc. - KS, USA, 1](#)
- [CECO Environmental/ A.V.C. Specialists, Inc. - LA, USA, 1](#)
- [CECO Environmental/ Adwest Technologies, Inc. - CA, USA, 4](#)
- [CECO Environmental/ Adwest Technologies, Inc. - NY, USA, 1](#)
- [CECO Environmental/ Busch International - CA, USA, 1](#)
- [CECO Environmental/ Busch International - PA, USA, 1](#)
- [CECO Environmental/ Effox-Flextor, Inc. - CANADA, 1](#)
- [CECO Environmental/ Effox-Flextor, Inc. - CANADA, 2](#)
- [CECO Environmental/ Effox-Flextor, Inc. - OH, USA, 9](#)
- [CECO Environmental/ Fisher-Klosterman, Inc. - KY, USA, 4](#)
- [CECO Environmental/ KBD Technic - OH, USA, 1](#)
- [CECO Environmental/ Met-Pro Corp./ Fybroc & Sethco Division - PA, USA, 3](#)
- [CECO Environmental/ Met-Pro Corp./ Keystone Filter Div. - PA, USA, 6](#)
- [CECO Environmental/ Met-Pro Environmental Air Solutions - OR, USA, 2](#)
- [CECO Environmental/ Met-Pro Environmental Air Solutions - PA, USA, 1](#)
- [CECO Environmental/ Met-Pro Envr. Air Solutions/ Duall Division - MI, USA, 7](#)
- [CECO Environmental/ Met-Pro Envr. Air Solutions/ Flex-Kleen Div. - IL, USA, 6](#)
- [CECO Environmental/ Met-Pro Envr. Air Solutions/ Systems Div. - PA, USA, 1](#)
- (Aarding Divisions being added as a result of mergers. Peerless, Zhongli, SAT and CCA will also be added)

CECO –Busch Details

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Busch International**

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state: PA **zipcode:** 15223-1062

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<http://www.buschintl.com/>

Email: busch@cecoenviro.com

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Mcilvaine Service	product
Air Handling	DAMPERS
Fabric Filter	CARTRIDGE FILTERS
Fabric Filter	FABRIC FILTERS
Fabric Filter	HIGH EFFICIENCY
Wet Scrubber	ADSORPTION
Wet Scrubber	MIST ELIMINATORS

Mcilvaine reports on Busch technology in the fabric filter, scrubber, adsorber and other newsletters