

May 2007

Air Pollution Requirements for Foundries

Does your company do ferroalloy production, aluminum scrap processing, or other metal melting or alloying processes?

Potential sources of air pollution from foundry operations are scrap pretreatment, melting, tapping, chlorine de-magging, and sand handling.

What air pollution do foundries emit?

- Foundry operations can have several different sources of air pollution, including:
 - **Particulates** from mold making, melting, tapping, blasting, grinding and finishing.
 - **Volatile organic compounds (VOCs)** are emitted when materials covered with cutting fluids or oils go through scrap pretreatment. VOCs are also generated during mold and core making.
 - Aluminum scrap processing also may have **chlorine emissions** from chlorine de-magging.
 - If gas-fired smelters are used, **combustion by-products such as carbon monoxide and nitrogen oxides** are emitted. VOCs from incomplete combustion can also be generated, particularly if specialty alloys are used or produced.

How do I determine whether I need an air permit?

The first step is to figure out what air pollution sources you have at your facility. Next, determine which sources need permits based on materials used and emission rates, which can be determined with established emissions factors.



How do I get my permit?

There are two air permits needed for your business: a permit-to-install (PTI) and a permit-to-operate (PTO). A PTI is required before installing a source. A PTO is needed to operate the source after installation. Permits are issued by either the Ohio EPA district office or local air agency covering your area. See the map in this fact sheet for your local contacts. You can get permit applications from your local Ohio EPA district office or local air agency, or through the Division of Air Pollution Control's Web site at www.epa.state.oh.us/dapc/permits/permits.html.

An air permit will be issued for each source and will establish hourly, daily and annual emission limits, in pounds

Important

If you are already operating your business and discover that you need an air permit, you must still complete and submit PTI and PTO applications.

per hour or day and tons per year. The permit will also require record keeping and reporting of material usage or production rates either monthly or quarterly.

Once you get the permit, it is very important that you read and understand the terms and conditions of your permit.

Where can I get help?

Ohio EPA's Office of Compliance Assistance and Pollution Prevention (OCAPP) is a non-regulatory office of Ohio EPA with a goal of helping small businesses comply with air pollution regulations and permitting requirements. If you are operating a small business with fewer than 100 employees, we can help you!

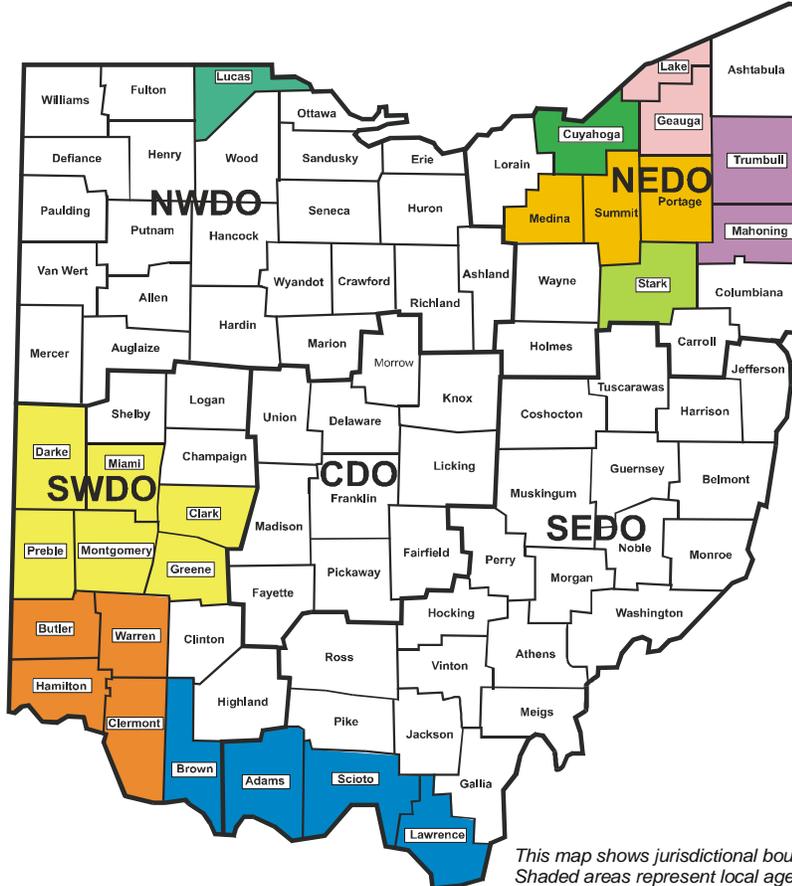
We can come to your business to determine exactly what you need to do to comply with air permitting regulations. We can calculate emissions and, if you qualify for any permit exemptions, help you document this. We can help you complete air permit application forms. All information and services are free and air permitting-related information is confidential. For more information, contact OCAPP at 800-329-7518, or visit our Web site at www.epa.state.oh.us/ocapp/sb/index.html.

Ohio EPA recommends that all businesses investigate ways to reduce pollution and conserve energy. This can save you money and may reduce the regulations you are required to comply with. Contact OCAPP for help in identifying pollution prevention (P2) opportunities for your business.

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Local Air Pollution Control Agencies

Division of Air Pollution Control
Ohio EPA, Central Office
(614) 644-2270



This map shows jurisdictional boundaries.
Shaded areas represent local agencies within Ohio EPA districts.



District Offices

CDO Isaac Robinson, APC Manager
01 Central District Office
50 West Town Street, Suite 700
Columbus, OH 43215
(614) 728-3778 FAX (614) 728-3898
e-mail: isaac.robinson@epa.state.oh.us

SEDO Bruce Weinberg, APC Manager
06 Southeast District Office
2195 Front St.
Logan, OH 43138
(740) 385-8501 FAX (740) 385-6490
e-mail: bruce.weinberg@epa.state.oh.us

NEDO Dennis Bush, APC Manager
02 Northeast District Office
2110 E. Aurora Rd.
Twinsburg, OH 44087
(330) 425-9171 FAX (330) 487-0769
e-mail: dennis.bush@epa.state.oh.us

NWDO Mark Budge, APC Manager
03 Northwest District Office
347 North Dunbridge Rd.
Bowling Green, OH 43402
(419) 352-8461 FAX (419) 352-8468
e-mail: mark.budge@epa.state.oh.us

SWDO Tom Schneider, APC Manager
05 Southwest District Office
401 E. Fifth St.
Dayton, OH 45402-2911
(937) 285-6357 FAX (937) 285-6249
e-mail: tom.schneider@epa.state.oh.us

16 Lynn Malcolm, Administrator
Akron Regional Air Quality
Management District
146 South High St, Room 904
Akron, Ohio 44308
(330) 375-2480 FAX (330) 375-2402
e-mail: Malcoly@ci.akron.oh.us

13 Richard L. Nemeth, Commissioner
Cleveland Dept. of Public Health
Division of Air Quality
1925 St. Clair Ave.
Cleveland, Ohio 44114-2080
(216) 664-2297 FAX (216) 420-8047
e-mail: Rnemeth@city.cleveland.oh.us

07 Phillip H. Thompson, Director
Portsmouth Local Air Agency
605 Washington St., Third Floor
Portsmouth, Ohio 45662
(740) 353-5156 FAX (740) 353-3638
e-mail: phillip.thompson@ohio.epa.state.oh.us

15 Dan Aleman, Administrator
Air Pollution Control Division
Canton City Health Dept.
420 Market Ave. North
Canton, Ohio 44702-1544
(330) 489-3385 FAX (330) 489-3335
e-mail: daleman@cantonhealth.org

08 John Paul, Administrator
Regional Air Pollution Control Agency
Montgomery County Health Dept.
117 South Main St.
Dayton, Ohio 45422-1280
(937) 225-4435 FAX (937) 225-3486
e-mail: paulja@rapca.org

04 Karen Granata, Administrator
City of Toledo
Division of Environmental Services
348 South Erie Street
Toledo, Ohio 43604
(419) 936-3015 FAX (419) 936-3959
e-mail: karen.granata@toledo.oh.gov

14 Cory R. Chadwick, Director
Dept. of Environmental Services
Air Quality Programs
250 William Howard Taft Road
Cincinnati, Ohio 45219-2660
(513) 946-7777 FAX (513) 946-7778
e-mail: cory.chadwick@hamilton-co.org

20 Bert Mechenbier, Supervisor *
Lake County General Health District
Air Pollution Control
33 Mill Street
Painesville, Ohio 44077
(440) 350-2543 FAX (440) 350-2548
e-mail: BMechenbier@lcghd.org

21 Larry Himes, Administrator *
Mahoning-Trumbull APC Agency
345 Oak Hill Ave., Suite 200
Youngstown, Ohio 44502
(330) 743-3333 FAX (330) 744-1928
e-mail: mtapca@cboss.com

*Facilities located within these jurisdictions should file air permit applications with Ohio EPA's Northeast District Office (NEDO).