

AIR QUALITY CONSTRUCTION PERMIT 101

Iowa Air Quality Regulations

“ All new or modified equipment and control equipment that emits air pollutants must have a construction permit unless the equipment is otherwise exempt. ”

Air quality regulations are regulated by the Clean Air Act. Managed nationally by the U.S. Environmental Protection Agency and in Iowa by the Iowa Department of Natural Resources Air Quality Bureau to control air pollution and protect public health and public welfare.

Regulated Air Pollutants

- Carbon Monoxide (CO)
- Particulate Matter (PM, PM₁₀ and PM_{2.5})
- Hazardous Air Pollutants (HAPs)
- Lead (Pb)
- Nitrogen Oxides (NOx)
- Sulfur Dioxide (SO₂)
- Volatile Organic Compounds (VOCs)

Common Emission Sources

- | | |
|----------------------|------------------------|
| ■ Paint Booths | ■ Material Drying |
| ■ Welding Operations | ■ Plasma/Laser Cutting |
| ■ Combustion Sources | ■ Grain Handling |
| ■ Material Handling | ■ Concrete Batching |
| ■ Abrasive Blasting | ■ Aggregate Processing |

Common Permit Exemptions

There are permitting exemptions for many types of sources listed in the Iowa Administrative Code (IAC). See 567 IAC Chapter 22.1 (2) for a complete list of exemptions and requirements.

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|--|--|
| ■ Direct fired equipment burning natural gas <10 million btu/hr | ■ Manually operated equipment used for a variety of purposes |
| ■ Direct fired equipment burning fuel oil <1 million btu/hr | ■ Indoor vented powder coating equipment with filters |
| ■ Non-production equipment or equipment vented indoors used for cutting, machining, sawing, grinding, shot/sand blasting, etc. | ■ Welding with various usage limitations |



Permits need to be applied for and issued before construction begins.

If your process or equipment is not specifically listed as exempt, flip over for permit options.



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Small Unit Exemption (SUE)

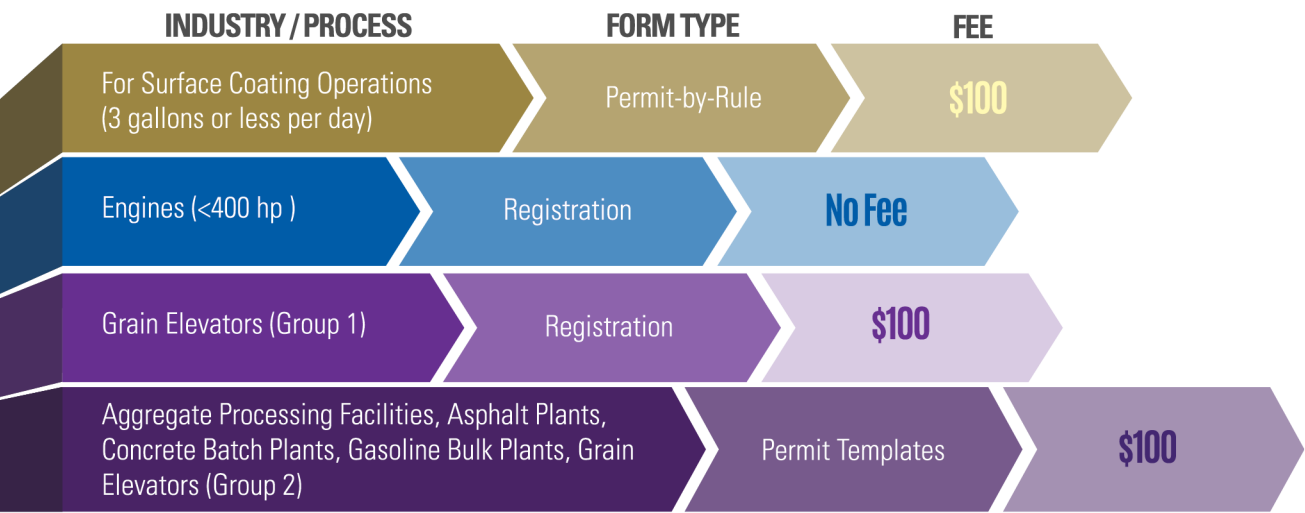
Included within the list of exemptions in the IAC, a small unit exemption can be used by any emission unit and associated control (if applicable) with emissions below DNR SUE ton per year thresholds for the regulated air pollutants. A SUE justification document must be signed and kept on site but does not need to be submitted to DNR. See 567 IAC 22.1(2) for more information.



If your process or equipment does not qualify for an exemption, use one of the following options to comply with permitting requirements.

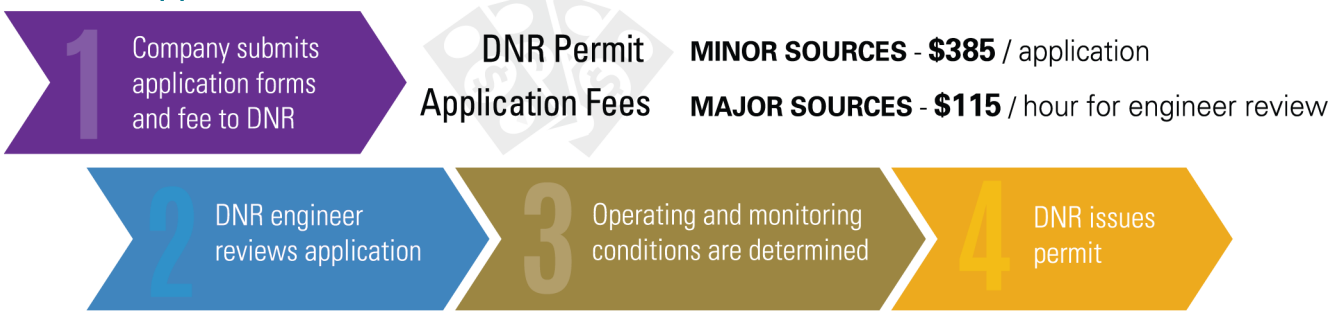
OPTION 1

Industry / Process Specific Application Forms



OPTION 2

General Application Forms (If option 1 does not apply, these forms should be used.)



Available Forms, Resources, Tools and Assistance

IOWA DNR
iowacleanair.gov
1-877-AIR-IOWA
(1-877-247-4692)

IOWA AIR EMISSIONS ASSISTANCE PROGRAM
ivrc.uni.edu/iaeap
1-800-422-3109
*Available to provide free assistance to Iowa facilities with less than 100 employees.

The Iowa Air Emissions Assistance Program is funded by the Iowa Department of Natural Resources. This information is intended solely as guidance, cannot be used to bind the Iowa Department of Natural Resources and is not a substitute for reading applicable statutes and regulations.