

South Dakota Department of Agriculture and Natural Resources

Air Quality Program

Air Quality Program Overview

South Dakota's Air Quality Program does the following:

- Monitoring and Permitting to meet the National Ambient Air Quality Standards
- Regional Haze Program
- Diesel Emission Reduction and Volkswagen Trust Fund
- Radon

Monitoring Section

6 - Scientists



Black Hawk Site

Permitting Section

7 – Engineers and 1 – Program Assistant



National Ambient Air Quality Standards

Primary Standards - provide public health protection

Asthmatics, children, and the elderly

Secondary Standards – public welfare protection

Decrease visibility and damage to animals, crops, vegetation, and buildings

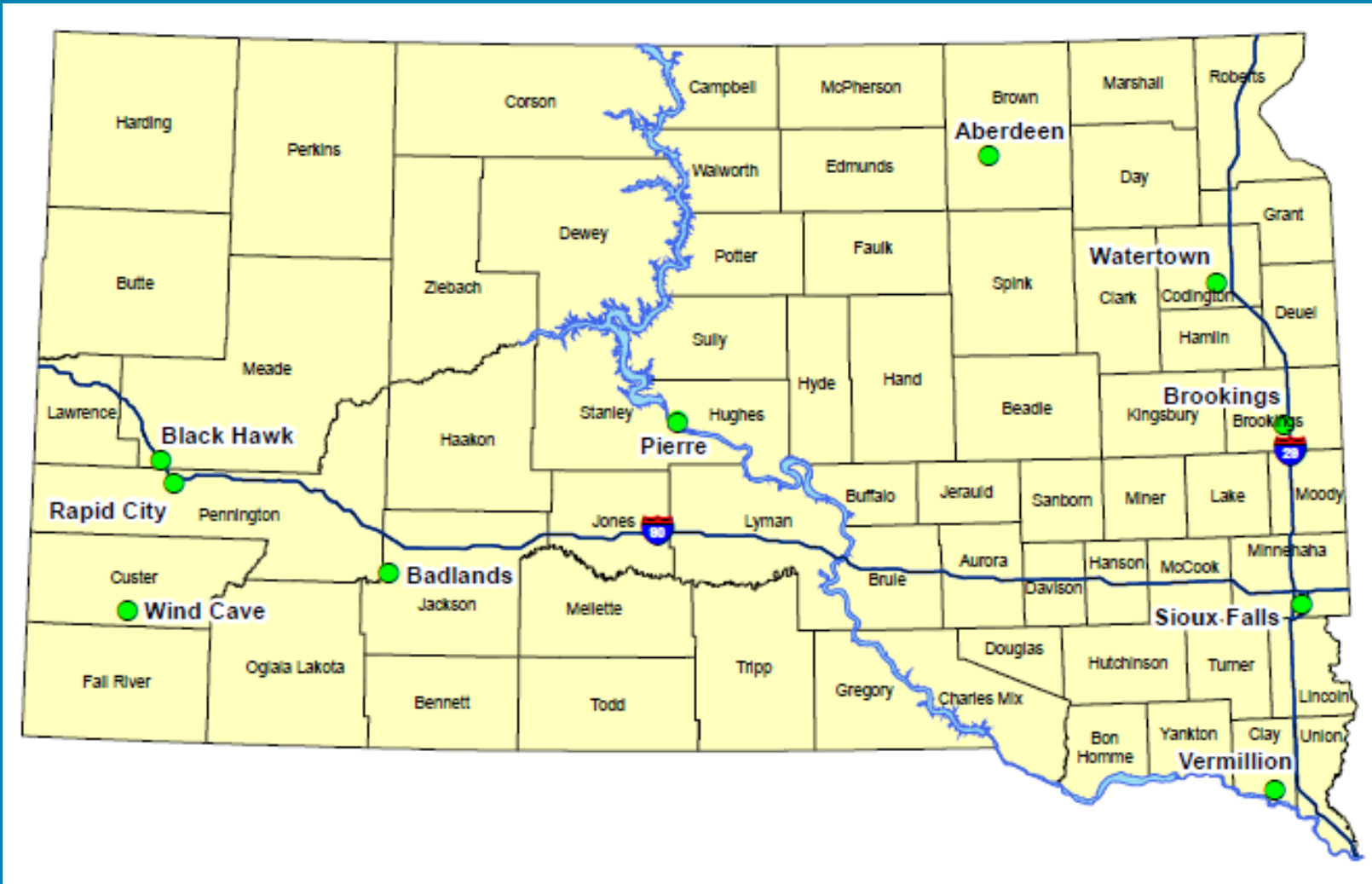
Air Pollutants Monitored

- Particulate matter
- Sulfur dioxide
- Nitrogen dioxide
- Ozone
- Carbon monoxide



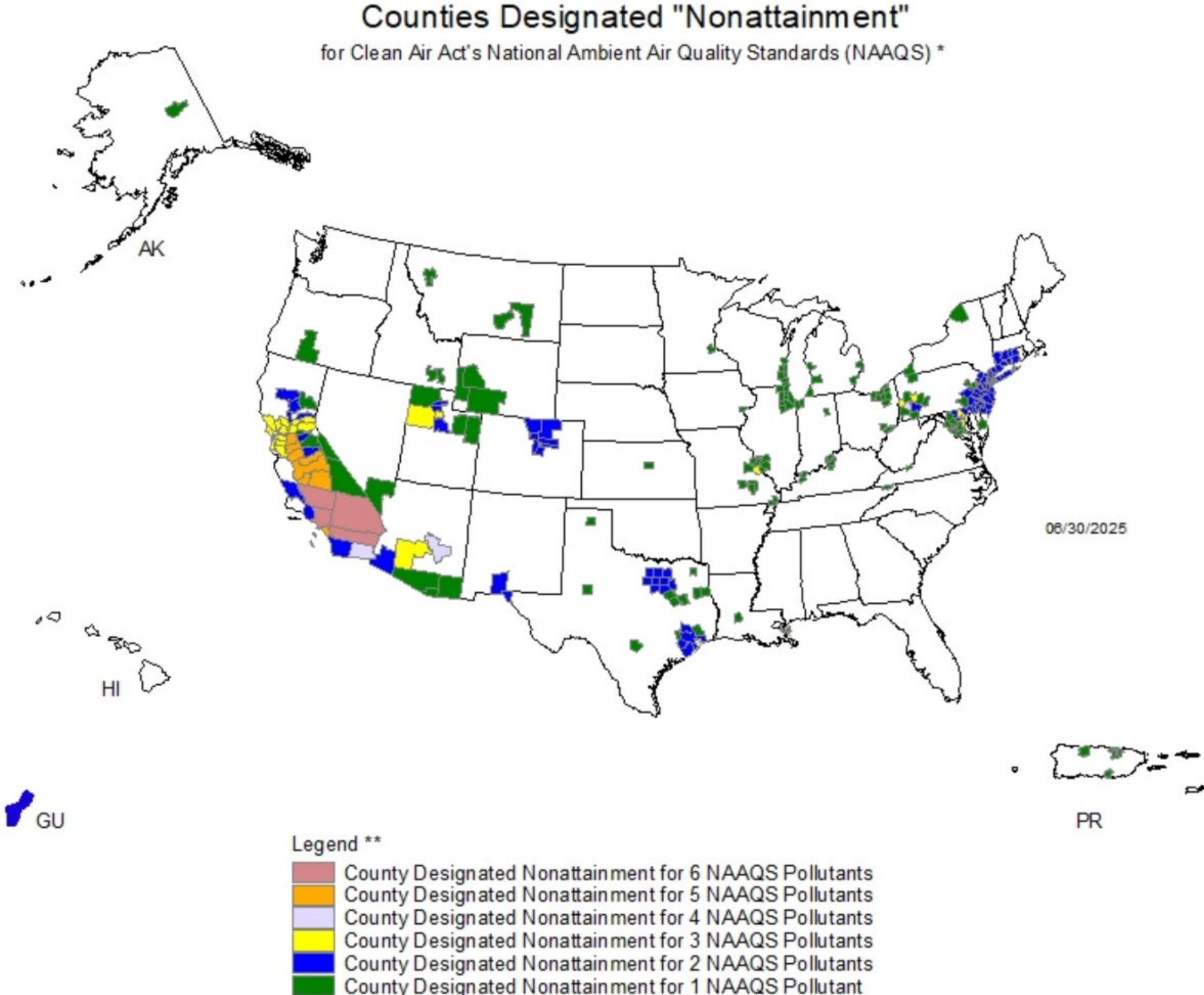
Sioux Falls USD Site

Ambient Air Monitoring Sites



<https://denravweb.sd.gov/AirVision/default.aspx>

There are currently 18 states that are in attainment for all National Ambient Air Quality Standards including South Dakota



<https://www3.epa.gov/airquality/greenbook/mapnpoll.html>



Regional Haze Program

Protects visibility at Wind Cave and Badlands National Parks



Smoke School

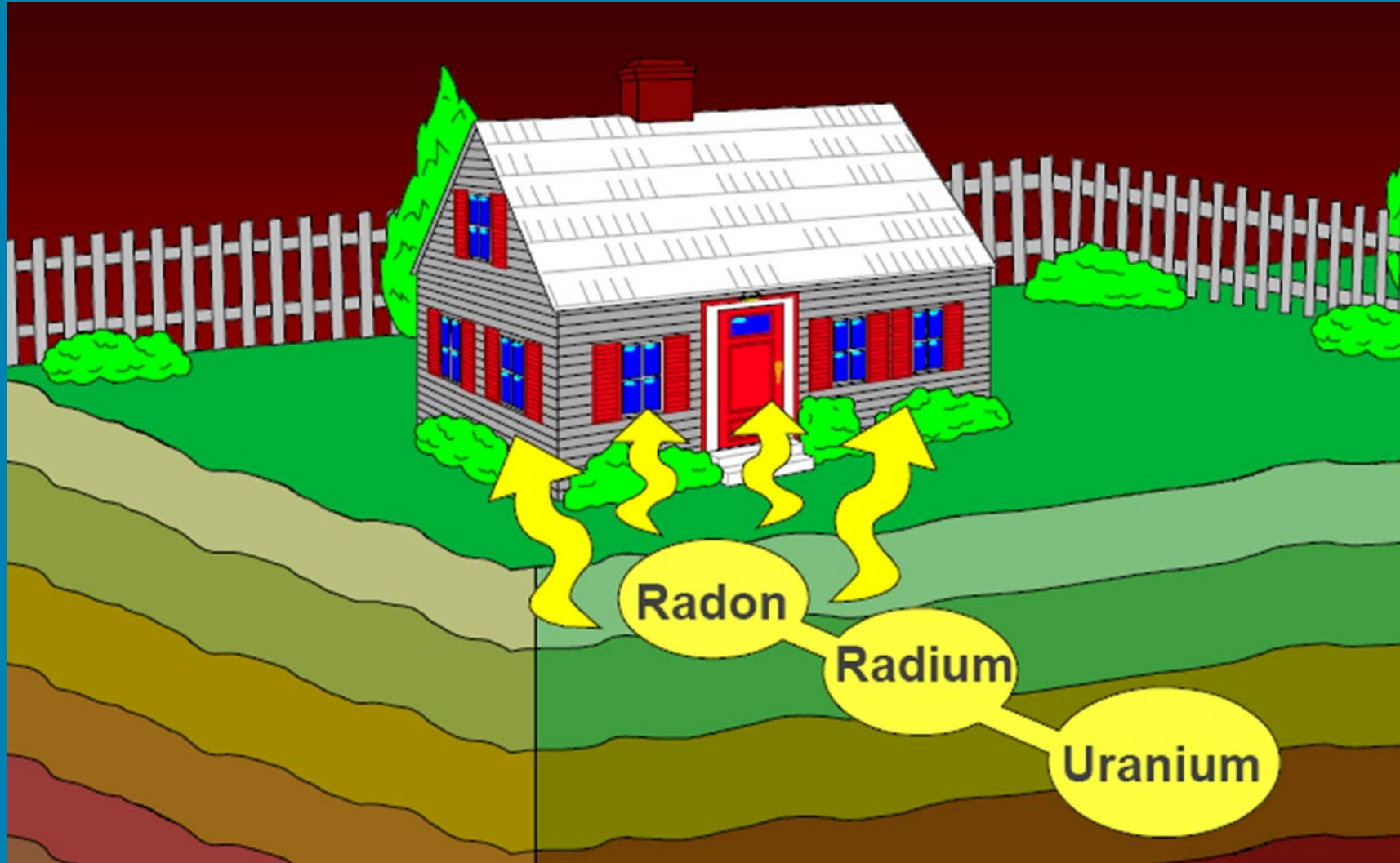
- DANR no longer hosts smoke school
- Two private companies now host smoke schools throughout the state for Method 9 Certification
 - AeroMet
 - Compliance Assurance Associates

Diesel Emission Reduction



- Diesel Emission Reduction Act and Volkswagen Trust Fund has provided rebates on clean diesel trucks, busses, and electric vehicle charging stations
- DANR attempts to do outreach for applications once a year for trucks and busses and less frequently for vehicle charging stations
- Visit DANR website for more info

Radon



- DANR provides 500 free radon test kits to residents of South Dakota annually
- There is a toll-free number for information request and guidance: 1-800-438-3367

Air Quality Permitting

- Issue permits to control and regulate air pollutants
- Assist small businesses subject to federal regulations
- Inspect businesses to ensure compliance



Regulated Air Pollutants

- Particulate matter with a diameter less than or equal to 2.5 microns (PM_{2.5});
- Particulate matter with a diameter less than or equal to 10 microns (PM₁₀);
- Sulfur dioxide (SO₂);
- Nitrogen oxides (NO_x);
- Carbon monoxide (CO);
- Ozone – measured as volatile organic compounds (VOCs); and
- Lead

Potential Requirements

- Maximum Achievable Control Technology
- New Source Performance Standards
- New Source Review
- Acid Rain Program
- National Events Action Plan (Rapid City Area)
- Stack Testing
- Inspections
- Reporting and recordkeeping

Examples of Regulated Operations

- Power Plants
- Ethanol Plants
- Hospitals
- Universities
- Grain elevators
- Asphalt Plants
- Emergency and non-emergency generators

Area Sources

- Stationary sources whose potential to emit is less than 25 tons of regulated pollutant per year, but subject to federal requirements
- Not required to be permitted
- Application Fee: Not applicable

Minor Permit

- Stationary sources whose potential to emit is between 25 and 100 tons per year of a regulated pollutant
- Public Notice: 30-day public notice
- Application Fee: Not applicable

Construction Permit

- Applicable to new stationary sources or existing stationary sources that modify operations
- Public Notice: 30-day public notice
- Application Fee: \$138, if a major source
- Valid for the duration of the project

Title V Permit (Major Source)

- Source emits 100 tons per year of regulated pollutant or greater, greater than 10 tons per year of one hazardous air pollutant or greater than 25 tons per year of a combination of the 188 hazardous air pollutants, or applicable to federal standards
- Public Notice: 30 days and 45 days to EPA
- Application Fee: \$138
- Subject to annual air fee based on emissions

Prevention of Significant Deterioration Preconstruction Permit

- Stationary sources whose potential to emit more than 250 tons per year of any criteria pollutant
- Stationary sources whose potential to emit more than 100 tons per year of any criteria pollutant for 28 source categories
- Public Notice: 30 days
- Application Fee: Not Applicable

Permit Renewal

- Submit Application
- Submit application fee, if applicable
- Subject to public notice
- Permits are valid for five years. Facility may continue operating under an expired permit if a complete application is submitted prior to expiration date.

General Permits

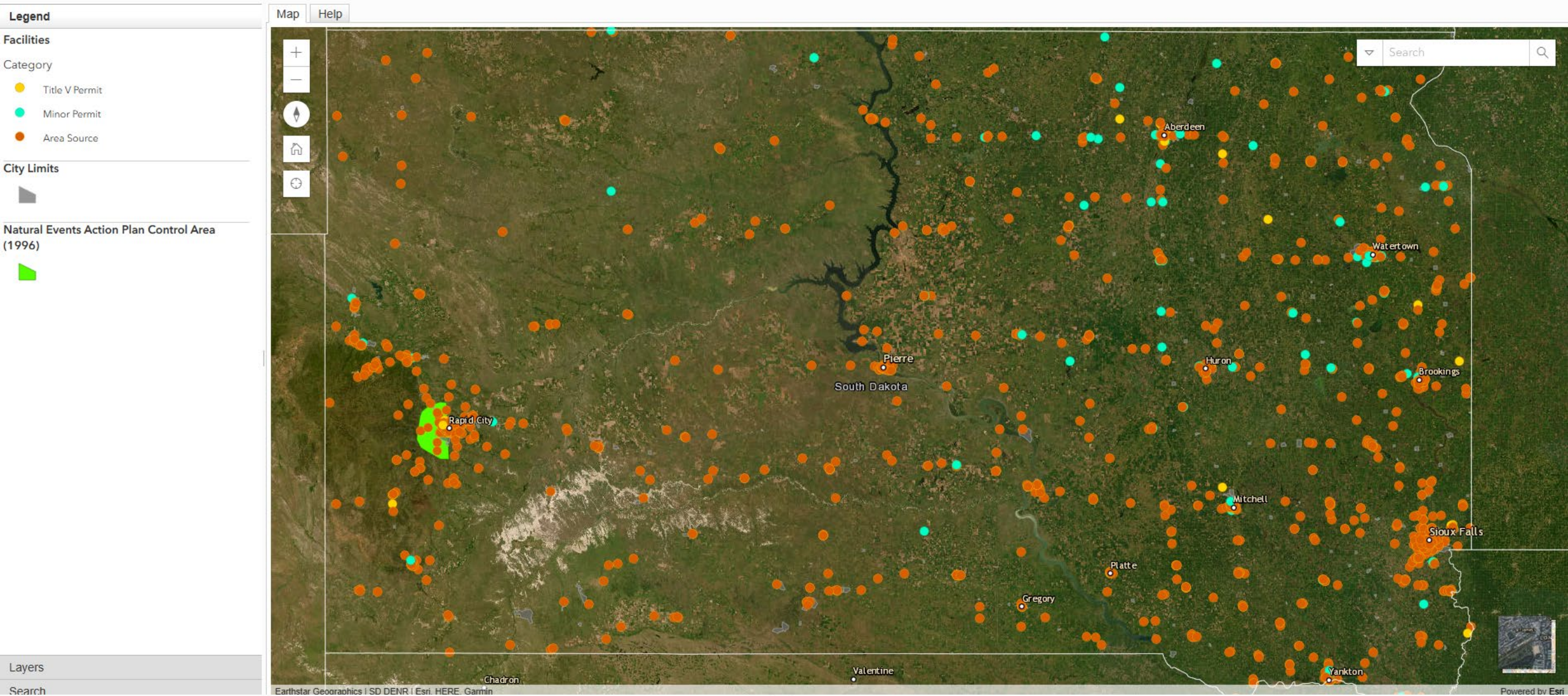
- May be portable or stationary, minor source, or Title V source
- Asphalt Plants
 - Annual flat fee: \$333
- Rock Crushers
 - Annual flat fee: \$446
- Concrete Plants
- Grain Elevators

Do I need to submit an application?

- Does your business vent air pollution to the outdoors through a stack or other type of venting system?
- No state or federal regulations that regulate odors
 - Local ordinances which address odors
- No state or federal regulations that regulate dust from gravel roads.
 - Local government controls dust from the gravel road
 - Dust control options include watering, using a dust suppressant, or paving the gravel road

Permit Process/Timeline

- 90 to 180 days to issue or modify an air quality construction permit
- Remember that an air quality permit must be issued or modified before installing the equipment or operation
- Applications:
<https://danr.sd.gov/Environment/AirQuality/PermitForms/Applications.aspx>



<https://apps.sd.gov/NR34AirQuality/public.aspx>

Legend

Layers

Search

City:

All

Name:

Example: City of Armour

Facility ID:

Example: SD0000004603501056

Permit #:

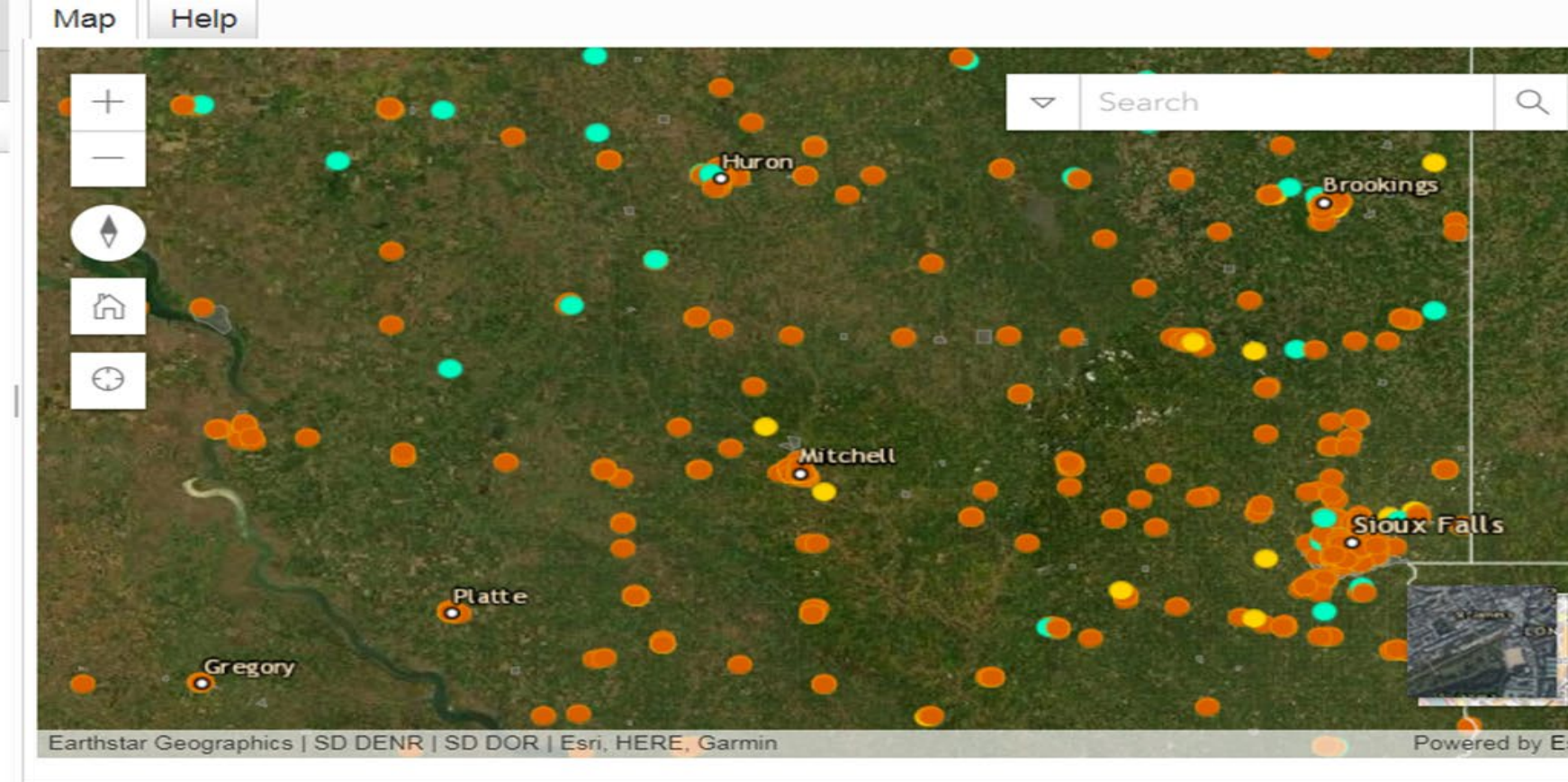
Example: SDG05A064

Permit Type:

All

Search

Clear Search



| Facility ID | Name | Address | City |
|---------------------|-------------------------------|---------------------------|-------------|
| SD00000004601301031 | Frederick Farmers Elevator | 502 5th Street | Frederick |
| SD00000004603301011 | Custer Cleaners - Dry Cleaner | 32 North 4th Street | Custer |
| SD00000004607901017 | The One Stop | 1104 Northwest 2nd Street | Madison |
| SD00000004608301043 | Landreth Frame & Body Inc | 27080 Thomas Avenue | Tea |
| SD00000004609900252 | Verizon Wireless - Harriburg | 103 Industrial Road | Sioux Falls |
| SD00000004613501057 | Utica Grain Inc | 85 State Street | Utica |

Search function can pull up individual facilities or cities

Clicking on one of the facility dots will give information about the facility as can be seen to the right

FACILITY □ ×

Facility Name: Fort Pierre Power and Light Plant

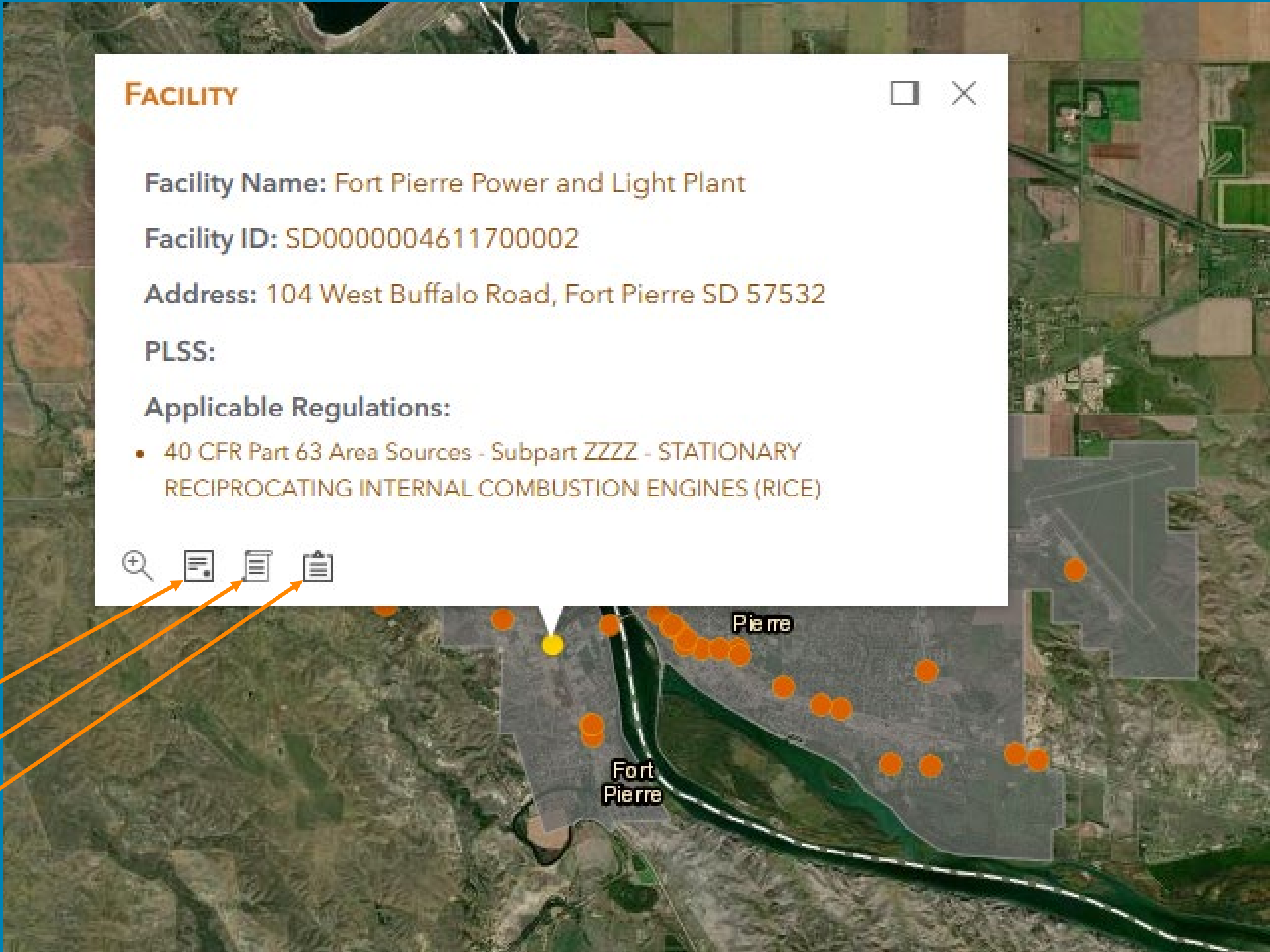
Facility ID: SD00000004611700002

Address: 104 West Buffalo Road, Fort Pierre SD 57532

PLSS:

Applicable Regulations:

- 40 CFR Part 63 Area Sources - Subpart ZZZZ - STATIONARY RECIPROCATING INTERNAL COMBUSTION ENGINES (RICE)

A satellite map of the Fort Pierre area in South Dakota. The map shows a river, fields, and some buildings. Several orange dots are scattered across the map, representing different facilities. One dot is highlighted with a yellow circle. A white information box is open over this dot, displaying details about the Fort Pierre Power and Light Plant. At the bottom of the box are four icons: a magnifying glass, a document with a checkmark, a document with a list, and a clipboard with a checkmark. Three orange arrows point from the text on the left to these icons: the first arrow points to the magnifying glass icon, the second arrow points to the document with a checkmark icon, and the third arrow points to the clipboard with a checkmark icon.

- Current Permit
- Statement of Basis
- Last Inspection



Questions?

For specific questions or problems with permit applications, feel free to call the DANR air quality program at (605) 773 - 3151