

# PERMIT REQUIREMENTS FOR WOOD FIRED BOILERS

# Permit Exemption Thresholds

- ▣ Wood Fired Boiler with a capacity less than 1.0 mmBtu/hr; and
- ▣ Emissions Are Less Than 100 Tons Per Year

Source has the ability to Self Exempt

# Permitting Process

- ▣ DEQ Strongly Recommends a Pre-application Meeting
- ▣ \$1,000 Permit Application Fee
- ▣ Permit Processing Fee Depending on Permitted Emission Rates (1-10 T/yr. \$2,500, 10-100 T/yr. \$5,000)
- ▣ 30 Days to Determine if Application is Complete
- ▣ 60 Days After Completeness to Prepare Permit
- ▣ 45 Additional Days if a Comment Period is Requested

# Content of the Application

- ▣ Applicant Must Document an Emissions Inventory
- ▣ Applicant Must Conduct Air Pollutant Dispersion Modeling
- ▣ Applicant Must Conduct a Detailed Applicable Regulation Review

DEQ will not Conduct the analysis for the applicant. Applicants that are not capable of conducting the analysis themselves must retain the services of someone who can.

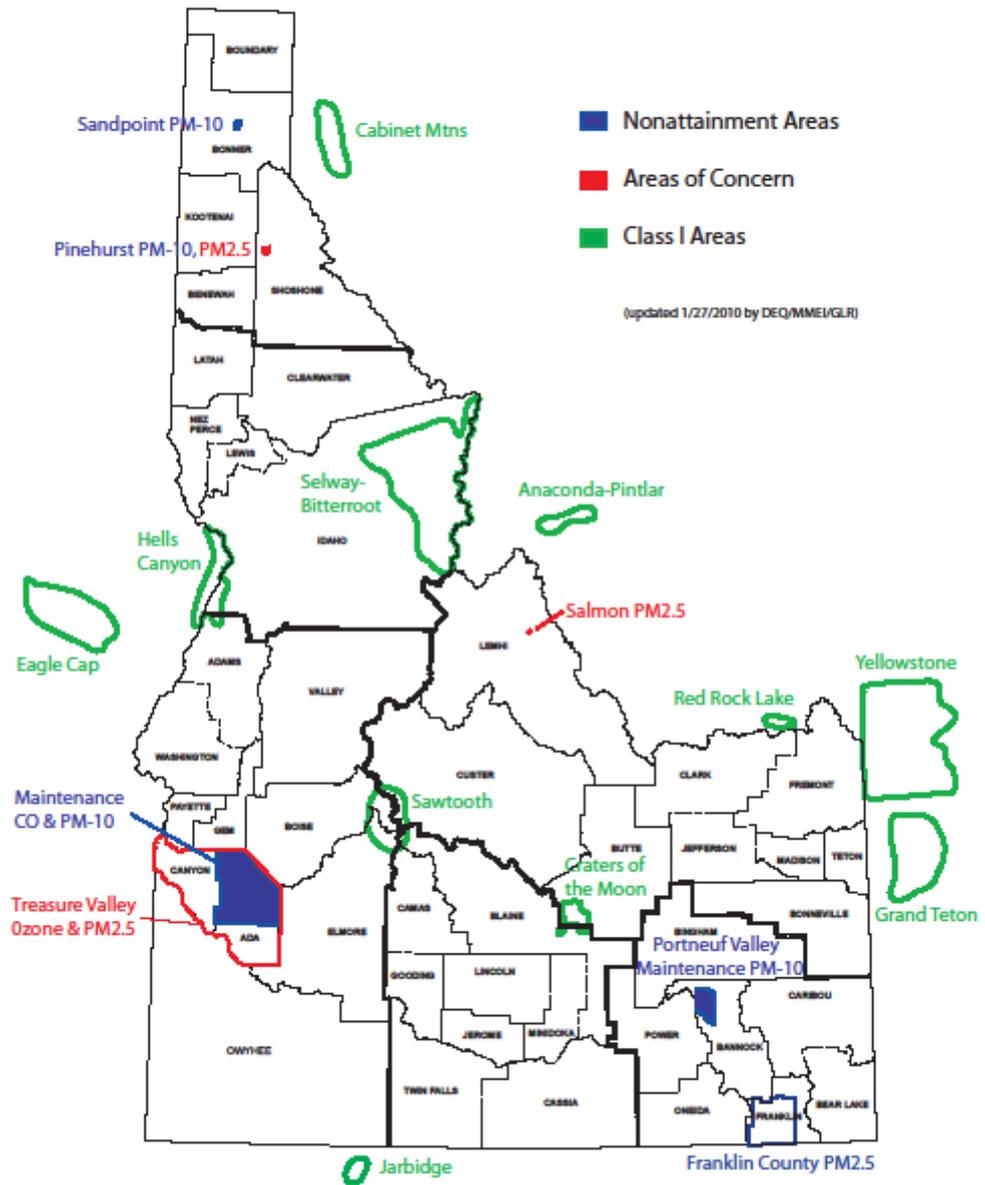
# Past Experiences

- ▣ Garden Valley School – 2.7 mmBtu/hr (7/23/10)
- ▣ Council School – 2.0 mmBtu/hr (3/13/07)
- ▣ Kellogg School – 2.5 mmBtu/hr (9/23/05)  
(all wood fired boilers)

Particulate Matter and Formaldehyde were the limiting pollutants.

Particulate Matter Emissions are more problematic in some areas.

# Idaho Air Quality Planning Areas



# New Standards

- ❑ Several New Standards have been promulgated since permitting the boilers for the schools.
- ❑ Fine Particulate (2.5 micron) ambient standards.
- ❑ Nitrogen Dioxide one hour ambient air quality standard.
- ❑ Each of these new ambient air quality standards are stringent and demonstrating compliance with them has proven problematic.
- ❑ Uncontrolled particulate matter emissions from wood fired units with limited distance to ambient air will likely prove to be prohibitive.
- ❑ New Federal Boiler Maximum Achievable Control Technology (MACT) Standard – However for new wood fired boilers of less than 10 mmBtu/hr only reporting and boiler tune ups are required; there are MACT emissions standards for units greater than 10 mmBtu/hr.