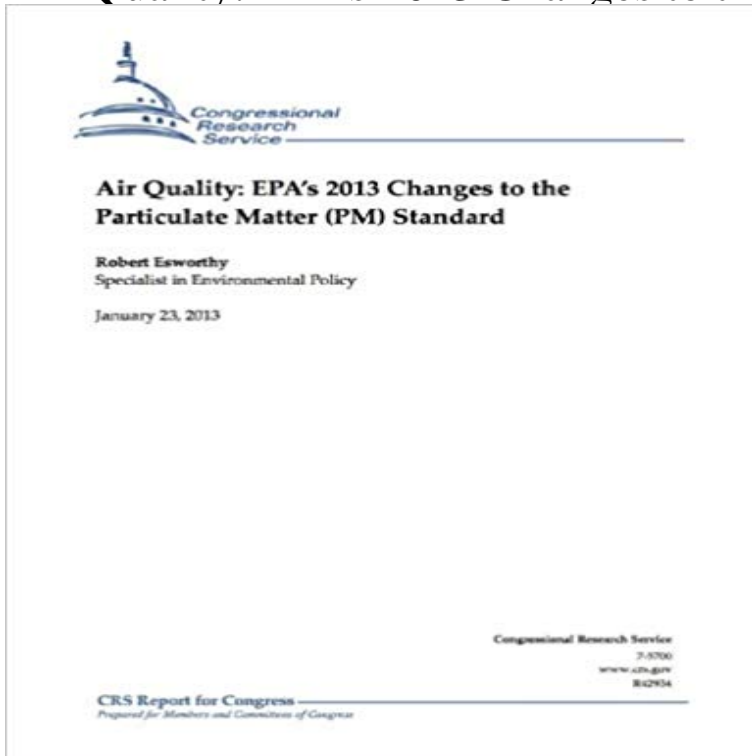


Air Quality: EPA's 2013 Changes to the Particulate Matter (PM) Standard



On January 15, 2013, the Environmental Protection Agency (EPA) published a final rule revising the National Ambient Air Quality Standard (NAAQS) for particulate matter (PM). The revised air quality standards were completed pursuant to the Clean Air Act (CAA) and, in part, in response to a court order and consent agreement. Based on its review of scientific studies available since the agency's previous review in 2006, EPA determined that evidence continued to show associations between particulates in ambient air and numerous significant health problems, including aggravated asthma, chronic bronchitis, non-fatal heart attacks, and premature death. Populations shown to be most at risk include children, older adults, and those with heart and lung disease, and those of lower socioeconomic status. EPA's review of and revisions to the PM NAAQS has generated considerable debate and oversight in Congress. The January 2013 revisions change the existing (2006) annual health-based (primary) standard for fine particulate matter 2.5 micrometers or less in diameter (or PM_{2.5}), lowering the allowable average concentration of PM_{2.5} in the air from the current level of 15 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) to a limit of 12 $\mu\text{g}/\text{m}^3$. The annual PM_{2.5} NAAQS is set so as to address human health effects from chronic exposures to the pollutants. The existing 24-hour primary standard for PM_{2.5} that was reduced from 65 $\mu\text{g}/\text{m}^3$ to 35 $\mu\text{g}/\text{m}^3$ in 2006 was retained, as was the existing standard for larger, but still inhalable, coarse particles less than 10 micrometers in diameter, or PM₁₀. Secondary standards that provide protection against welfare (non-health) effects, such as ecological effects and material deterioration, are identical to the primary standards and the same as in 2006. The proposed rule published June 29, 2012, solicited comments on two options for a 24-hour

PM2.5 standard to improve visibility that were not adopted in the final rule. EPA revised the Regulatory Impact Analysis (RIA) accompanying its June 2012 proposed rule in part in response to comments received regarding the agency's cost and benefit estimates. In its December 2012 RIA, EPA estimated that the potential quantifiable health benefits (2010 \$) associated with attaining the PM standard would range from \$4.0 billion to \$9.1 billion, and costs (2010 \$) would range from \$53.0 million to \$353.0 million. Some stakeholders and some Members continue to express concerns that cost impacts would be more significant than those estimated by EPA for those areas out of compliance with the new standards. EPAs revisions to the PM NAAQS do not directly regulate emissions from specific sources, or compel installation of any pollution control equipment or measures, but indirectly could affect operations at industrial facilities and other sources throughout the United States. Revising PM NAAQS starts a process that includes a determination of areas in each state that exceed the standard and must, therefore, reduce pollutant concentrations to achieve it. Following determinations of these nonattainment areas based on multiple years of monitoring data and other factors, state and local governments must develop (or revise) State Implementation Plans (SIPs) outlining measures to attain the standard. These often involve promulgation of new regulations by states, and the issuance of revised air permits. The process typically takes several years. Based on statutory scheduling requirements, nonattainment designations for revised PM NAAQS would not be determined until the end of 2014, and states would have until at least 2020 to achieve compliance with the January 2013 revised PM2.5 NAAQS.

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Proposed Changes to the Particulate Matter (PM) Standard, by Robert Esworthy. **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** M. Vallius, Characteristics and sources of fine particulate matter in urban air, Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard, **Table of Historical Particulate Matter (PM) National Ambient Air** Jan 15, 2013 Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard quality standards were completed pursuant to the Clean Air Act **Particulate Matter Air & Radiation US EPA** Mar 16, 2017 About EPA Particulate Matter (PM) National Ambient Air Quality Standards (NAAQS). History of the NAAQS for Particulate Matter, from 19 Jan 15, 2013, Primary and Secondary, PM2.5, 24 hour, 35 g/m3, 98th **PM NAAQS US EPA** Dec 23, 2015 2013 NAAQS for Fine Particulate Matter (PM2.5): Designating Nonattainment .. Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Jan 15, 2013 The EPA is revising the Air Quality Index (AQI) for PM2.5 to be consistent with the revised primary PM2.5 standards. The final rule is effective on March 18, 2013. . the Particulate Matter National Ambient Air Quality Standards (U.S. EPA, . B. Changes to 40 CFR Part 58 (Ambient Air Quality Surveillance). **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Apr 28, 2017 Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard. Primary view of object titled Air Quality: EPAs 2013 Changes to the **The National Ambient Air Quality Standards (NAAQS) for Particulate** Sep 28, 2016 Reviewing National Ambient Air Quality Standards (NAAQS). You are here: EPA Home Particulate Matter (PM) Standards - Table of Historical PM NAAQS. History of the National Jan 15, 2013. Primary, PM2.5 **R42934 Air Quality EPAs 2013 Changes to the Particulate Matter** Apr 28, 2017 Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard. Primary view of object titled Air Quality: EPAs 2013 Changes to the **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Ambient Air Quality Standards for Particulate. Matter air quality criteria for particulate matter (PM) and of the primary (health-based) and secondary. **2013 National Ambient Air Quality Standard (NAAQS) for Fine** Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard Agency (EPA) January 15, 2013, final and June 2012 proposed changes to the **National Ambient Air Quality Standards for Particulate Matter Final** Docket Number. EPA-HQ-OAR-2013-0691 PM2.5 NAAQS Final SIP Requirements Rule - Fact Sheet and Webinar - July/Aug 2016. National Status of 2012 National Ambient Air Quality Standards (NAAQS) for Particulate Matter (PM2.5). **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Mar 16, 2017 This report summarizes the Environmental Protection Agency (EPA) proposed changes to the National Ambient Air Quality Standard (NAAQS) **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Mar 16, 2017 Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard associated with changing the Particulate Matter annual standard, **The Quality of Air - Google Books Result** The impacts of the revising PM NAAQS can be both potentially far-reaching and indirect. **What are the Air Quality Standards for PM? - US EPA** On January 15, 2013, the Environmental Protection Agency (EPA) published a final rule revising the National Ambient Air Quality Standard (NAAQS) for **Integrated Review Plan for the National Ambient Air - US EPA** **EPAs 2013 Changes to the Particulate Matter (PM) Standard** National air-quality standards for PM were first established in 1971 and were not revised until 1987 when EPA changed the indicator to focus on inhalable particles, which The revised 2012 PM standard became effective on March 18, 2013. revisions to the National Ambient Air Quality Standards for particle pollution. **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM)** Jan 15, 2013 78, No. 10/Tuesday, January 15, 2013/Rules and Regulations particulate matter

(PM), the EPA is standard at a level of 35 g/m³. The EPA is revising the Air Quality Index (AQI) request regarding changes to the **National Ambient Air Quality Standards for Particulate Matter** Dec 23, 2015 Air Quality: EPAs 2013 Changes to the Particulate Matter (PM) Standard for the revised 2013 primary annual PM_{2.5} standard. EPA **Air Quality: EPAs 2013 Changes to the Particulate Matter (PM** Nov 12, 2015 R42934 Air Quality EPAs 2013 Changes to the Particulate Matter (PM) Standard.