Proposed Amended Rule 1146 – Emissions of Oxides of Nitrogen from Industrial, Institutional, and Commercial Boilers, Steam Generators, and Process Heaters

PUBLIC WORKSHOP
OCTOBER 8, 2020

Join Zoom Meeting
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Background

• Rule 1146 was adopted on September 9, 1988
  ➢ Reduces NOx emissions from industrial, institutional and commercial operations boilers, steam generators, and process heaters ≥5 million BTU per hour

• Rule 1146 was last amended on December 7, 2018
  ➢ Expanded applicability units at facilities in Regional Clean Air Incentives Market (RECLAIM)
  ➢ NOx emission limits updated to reflect Best Available Control Retrofit Technology (BARCT) levels
  ➢ Amendments included an ammonia limit for new and modified air pollution control equipment, such as Selective Catalytic Reduction (SCR) that operates with ammonia injection
Regulation XIII - New Source Review
Requirements for Ammonia Emissions

• Ammonia emissions from new installations of SCR will trigger Regulation XIII – New Source Review

• Under Regulation XIII the increased ammonia emissions must meet a Best Available Control Technology (BACT) limit of 5 ppm

• Based on evaluation of Regulation XIII and Rule 1146, staff concluded that the ammonia emission limit is a Regulation XIII issue and should be evaluated in the permitting process rather than Rule 1146
  ➢ Allows permit engineers to evaluate the ammonia limit for new and modified SCRs on a case-by-case basis to ensure the Rule 1146 NOx limit can be achieved
Proposed Amendments

- Proposed Amended Rule 1146 will remove the ammonia concentration limit of 5 ppm for new and modified pollution controls with ammonia emissions
  - Ammonia limits will be addressed under Regulation XIII
  - Prevents conflicts with implementing Regulation XIII - New Source Review
Proposed Amendments (cont.)

- Proposed Amended Rule 1146 retains the compliance demonstration requirements for new, replaced and modified air pollution control equipment subject to an ammonia emission limit in the permit, including:
  - Quarterly source tests for the first year of operation and annual source tests requirements thereafter
  - Utilizing an ammonia Continuous Emissions Monitoring System certified under an approved protocol
Next Steps

• Close of comments on October 23, 2020
• Set Hearing on November 6, 2020
• Public Hearing on December 4, 2020
  ➢ Determined to be exempt from CEQA
  ➢ No adverse socioeconomic impacts