



Nitric Acid Production Protocol V2.2

Protocol Summary

Project Definition

The installation of nitrous oxide (N₂O) abatement technology at an existing, upgraded and/or relocated nitric acid plant (NAP) that results in the reduction of N₂O emissions that would otherwise have been vented to the atmosphere. A facility may contain more than one project if it contains multiple nitric acid plants.

Includes:

- A secondary catalyst project that installs a dedicated N₂O abatement catalyst inside or immediately below the ammonia oxidation reactor
- A tertiary catalyst project that installs a dedicated N₂O abatement catalyst in the tail gas leaving the absorption tower
 - The N₂O abatement technology can either be catalytic decomposition or a non-selective catalytic reduction (NSCR) nitrogen oxide (NO_x) abatement technology used to reduce N₂O along with NO_x
 - Projects located at an NAP with an existing NSCR unit may install a new tertiary catalyst in the tail gas leaving the NSCR unit; the unit must remain in operation throughout the life of the project

Project Eligibility Requirements

Location: Project must be within the U.S. and its territories.

Start Date: Project must be submitted no more than twelve months after the project start date.

Performance Standard Test: By installing one of the following N₂O abatement systems, the project passes the performance standard test:

- A secondary N₂O abatement catalyst
- A tertiary N₂O abatement catalyst, including catalytic decomposition or NSCR

Legal Requirement Test: Project developer attests that there are no legal requirements for abatement of N₂O at the project site and must sign the Attestation of Voluntary Implementation. The project is subject to a review of the legal requirement test for each verification period.

Regulatory Compliance: Project activities and project NAP must be in material compliance with all applicable federal, state and local regulations. Project developer must sign the Attestation of Regulatory Compliance for each verification period.

Crediting Period: The crediting period is approximately ten years in length, aligning with the end of the last full campaign that begins in the tenth year of reporting, or until the project activity is required by law. Project may apply for a second crediting period.

Reporting and Verification Schedule: A reporting period may exceed twelve months in length when a single campaign exceeds twelve months; the reporting period may match the length of the campaign. Sub-annual and sub-campaign reporting and verification are allowed. Verification must occur once per reporting period.

Other Eligibility Requirements

- Clear ownership of greenhouse gas (GHG) emissions reductions must be established
- Project must not be registered with any other registry for the same vintages of reductions
- Project must conduct proper accounting and monitoring

Project Is Ineligible If:

- The nitric acid plant restarted after December 2, 2007 after being idle for more than 24 months
- The nitric acid plant was constructed after December 2, 2009, unless construction permit was obtained before this date

Important Note: This is a summary of the protocol. Please read the full protocol for a complete description of project requirements.