



Nitric Acid Production Project Protocol Version 2.0 ERRATA AND CLARIFICATIONS

The Climate Action Reserve (Reserve) published its Nitric Acid Production Project Protocol Version 2.0 in September 2011. While the Reserve intends for the Nitric Acid Production Project Protocol V2.0 to be a complete, transparent document, it recognizes that correction of errors and clarifications will be necessary as the protocol is implemented and issues are identified. This document is an official record of all errata and clarifications applicable to the Nitric Acid Production Project Protocol V2.0.¹

Per the Reserve's Program Manual, both errata and clarifications are considered effective on the date they are first posted on the Reserve website. The effective date of each erratum or clarification is clearly designated below. All listed and registered nitric acid production projects must incorporate and adhere to these errata and clarifications when they undergo verification. The Reserve will incorporate both errata and clarifications into future versions of the protocol.

All project developers and verification bodies must refer to this document to ensure that the most current guidance is adhered to in project design and verification. Verification bodies shall refer to this document immediately prior to uploading any Verification Statement to assure all issues are properly addressed and incorporated into verification activities.

If you have any questions about the updates or clarifications in this document, please contact Policy at policy@climateactionreserve.org or (213) 891-1444 x3.

¹ See Section 4.3.4 of the Climate Action Reserve Program Manual for an explanation of the Reserve's policies on protocol errata and clarifications. "Errata" are issued to correct typographical errors. "Clarifications" are issued to ensure consistent interpretation and application of the protocol. For document management and program implementation purposes, both errata and clarifications are contained in this single document.

Errata and Clarifications (arranged by protocol section)

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Section 5

1. Calculation of CPV_{cap} (CLARIFICATION – October 4, 2013)

Section: 5.1.3.1 Baseline Sampling Period

Context: Section 5.1.3.1 discusses the baseline sampling period and the required steps for adjusting the data collected during the baseline sampling period before calculating the baseline emission factor. Step 1 details the method for calculating the campaign production volume cap (CPV_{cap}), and eliminating baseline data beyond the CPV_{cap} . CPV_{cap} is defined as the average campaign production volume in metric tons of HNO_3 for the campaigns used to define allowable operating conditions, which are generally the five previous campaigns. The CPV_{cap} is meant to ensure that the baseline sampling campaign is representative of “business as usual” nitric acid production. The variables HNO_{3max} and $HNO_{3max,scaled}$, which are also based on HNO_3 production volumes from historical data, serve a similar purpose for the project campaign, namely ensuring that the *project* campaign is representative of “business as usual” nitric acid production. For the calculation of HNO_{3max} , the protocol explicitly allows the project developer to exclude a justifiably anomalous campaign and instead include the next available historic campaign. The protocol is not clear that excluding a justifiably anomalous campaign when calculating CPV_{cap} is similarly allowed.

Clarification: The CPV_{cap} shall be calculated from the five consecutive historic campaigns used to define allowable operating conditions, except if one of the campaigns used to define allowable operating conditions is determined to be justifiably anomalous, in which case the project may instead use five non-consecutive historical campaigns (i.e. exclude the anomalous campaign and add another campaign from the next available historical record). If the project developer excludes an anomalous campaign, the verification body must use professional judgment to review the justification and relevant data to make a determination as to whether the anomalous campaign is in fact justifiably anomalous and should be excluded from the CPV_{cap} calculations.

Section 7

2. Reporting on Routine Maintenance Periods (CLARIFICATION – April 16, 2015)

Section: 7.4 Reporting Period and Verification Cycle

Context: Section 7.4 states that reporting periods must be contiguous and that there can be no time gaps in reporting during the crediting period of a project once the initial reporting period has commenced. It goes on to state that a reporting period must represent a full campaign, defined as the full length of operation of one set of primary catalyst gauzes (i.e. the time between new catalyst installations or new charges of catalyst gauze). However, the protocol does not address how routine maintenance periods shall be treated. During these maintenance periods, ammonia is not flowing to the AOR, and no nitric acid is produced.

Clarification: Additional text shall be added to Section 7.4 to clarify as follows:

Reporting periods must be contiguous; there can be no time gaps in reporting during the crediting period of a project once the initial reporting period has commenced. A reporting

period must represent a full campaign, defined as the full length of operation of one set of primary catalyst gauzes (i.e. the time between new catalyst installations or new charges of catalyst gauze), except as otherwise allowed in Section 7.4.1. Occasionally, certain types of maintenance activities may be required at the plant that may interrupt project activities. Such maintenance periods, defined as a period during which no ammonia is flowing and no nitric acid is produced, are permissible with the following caveats to ensure continuous reporting for the project:

- Maintenance periods must be included within the dates of a reporting period to ensure continuous reporting.
- The data generated during the maintenance period (e.g. OH, F, $\text{N}_2\text{O}_{\text{conc}}$, T, P) shall be excluded when performing the calculations in Section 5.
- Monitoring equipment may be removed during these maintenance periods, as necessary, and the related QA/QC requirements may be suspended during that time.
- Once production commences following a maintenance period, daily QA/QC requirements must be met, and the schedule of quarterly, semi-annual, and annual QA/QC requirements must resume in a timely manner, so as to continue to meet the requirements of Section 6.
- The project developer must demonstrate to the verifier that no ammonia was flowing and no nitric acid was produced during a maintenance period.