



JI DETERMINATION REPORT FORM

(version 02)

(to be completed by an AIE requesting the publication of a determination pursuant to paragraph 33 of the JI guidelines)

Accredited independent entity (AIE) submitting form TÜV SÜD

Proposed JI activity

Reference number and title of proposed JI activity YARA Köping S2 N2O abatement project in Sweden (0221)

Host Party(ies) Sweden

Parties involved in the JI activity Sweden, Netherlands

Coordinating entity (applicable to JI PoA only) NA

Project participants YARA AB, N.serve Environmental Services GmbH

Type of JI activity: **large scale** **small scale** **LULUCF** **PoA**

Brief description of the JI activity The project activity involves the installation of a new N2O abatement technology: a pelleted catalyst that will be installed inside the Ammonia Oxidation Reactor (AOR), underneath the precious metal gauzes. It is expected that this catalyst will reduce approximately 90% of current N2O emissions on average over its lifetime. Project activity will not affect other emissions such as NOx or nitric acid production.

Determination report

Please confirm that all requirements of Article 6 of the Kyoto Protocol, the JI guidelines and further relevant requirements defined by the CMP or the JISC with regard to determinations pursuant to paragraph 33 of the JI guidelines are met:

Yes

No

General information on determination

Please describe:

- The scope of the determination process, including all documentation that has been reviewed and list the names of persons interviewed during the determination process, as applicable;
- The AIE's determination team, including a list of all persons involved in the determination process and a description of the functions assumed.

➤ **Determination Scope:**

The determination objective is an independent assessment by a Third Party (Accredited Independent Entity, AIE) of a proposed project activity against all defined criteria set for the registration under the Joint Implementation scheme (JI). Determination is part of the JI project cycle and will finally result in a conclusion by the executing AIE whether a project activity is valid and should be submitted for registration to the Joint Implementation Supervisory Committee by UNFCCC. The ultimate decision on the registration of a proposed project activity rests on the JISC decision and the Parties involved.

➤ **Interviewed persons:**

Mr. Gilles Raskopf Plant Manager	YARA AB
Mr. Axel Pallin Process Engineer	YARA AB
Mr. Pär Höök Production Manager	YARA AB
Mr. Lars Håkan Karlsson HESQ-Manager	YARA AB
Mr. Jozef Meglic Automation Engineer	YARA AB

Albrecht von Ruffer Managing Director N-Serve

Mr. Rebecca Cardani-Strange Project Manager N-Serve

➤ **AIE's determination team:**

Mr. Nikolaus Kröger TÜV SÜD headquarters, Assessment Team Leader

Ms. Olena Maslova TÜV SÜD, GHG Lead Auditor/ Determiner, Project Manager

Mr. Martin Hammer TÜV SÜD, GHG Auditor (T)

Documentation that has been reviewed: see annex 2 of the determination report

Description of determination process

Please briefly describe and refer to:

- The review of the JI PDD/PoA DD and additional documentation attached to it;
- The assessment against JI requirements, e.g. by using a determination protocol;
- The report of findings by the AIE, including the use of different types of findings (e.g. corrective action requests, clarifications or observations etc.).

Statements or assessments should be included in section "Conclusions, final comments and determination opinion".

- The determination process starts with appointment of team covering the technical scope(s), sectoral scope(s) and relevant host country experience for evaluating the JI project activity. A first version of the PDD was submitted to the AIE in December 2009. Editorial corrections were required, resulting in PDD version 03, which was made publicly available in February 2010. This PDD and additional background documents related to the project design and baseline were reviewed to verify the correctness, credibility and interpretation of the presented information, furthermore a cross-check between information provided and information from other sources have been done as initial step of the determination process. A complete list of all documents and proofs reviewed is attached as annex 2 of the determination report. In the period of February 17-18, 2010 TÜV SÜD performed interviews and physical site inspection with project stakeholders to confirm relevant information and to resolve issues identified in the first document review. The on-site visit, the desk review comments and review of additional documents led to changes in the PDD, resulting in final version of the PDD (September 2011).
- The project assessment applies standard auditing techniques to assess the correctness of the information provided by the PPs. The assessment is based on the DVM. TÜV SÜD developed methodology-specific checklists and protocol customised for the project. The protocol shows, in a transparent manner, criteria (requirements), the discussion of each criterion by the assessment team and the results from validating the identified criteria. The determination protocol serves the following purposes: it organises, details and clarifies the requirements the particular JI Track-2 project is expected to meet; it ensures a transparent determination process where the determiner will document how a particular requirement has been validated and the result of the determination and any adjustment made to the project design. The completed determination protocol is enclosed in annex 1 to the determination report.
- During the determination process, the team makes reference to the available information related to similar projects or technologies as the proposed JI Track-2 project activity. The documentation has also been reviewed against the approved methodology(s) applied with several adjustments to confirm the appropriateness of formulae and correctness of calculations.
- The next step is a resolution of clarification and corrective action requests. The objective of this phase of the determination is to resolve the requests for corrective actions and clarifications and any other outstanding issues which needed to be clarified for TÜV SÜD's conclusion on the project design. The forward action requests inform the project participants of the issues relating to the project implementation that need to be reviewed during the first verification of the project.

The CARs and CRs raised by TÜV SÜD were resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the determination process, the concerns raised and responses that have been given are documented in more detail in the determination protocol in Annex 1. Finally a determination report is prepared.
- The prepared determination report and other supporting documents then undergo an internal quality control by the CB "climate and energy" before submission to the JISC.

Comments received from Parties, stakeholders and UNFCCC accredited observers

Please:

- Summarise the comments received pursuant to paragraph 32 of the JI guidelines; and
- Provide a report of how due account was taken of these.

TÜV SÜD published the project documents on UNFCCC website by installing a link to TÜV SÜD's own website and invited comments by the Parties, stakeholders and non-governmental organisations during a

period of 30 days, starting from 17.02.2010.

One comment has been received. The comment is related to the legal requirements for nitric acid plants in Sweden with consideration of the European requirements.

The comment was submitted by
Dr. Karsten Karschunke
Federal Environment Agency
German Emissions Trading Authority

The issues raised and responses by TÜV SÜD are discussed in Final Determination Report attached.

Conclusions, final comments and determination opinion

Please provide:

- Conclusions describing how each of the requirements of Article 6 of the Kyoto Protocol and the JI guidelines and further relevant requirements defined by the CMP or the JISC, in particular those referred to in paragraph 33 of the JI guidelines, have been met, including assessments and findings (e.g. corrective action requests, clarifications or observations) related to each requirement, and statements on whether all issues raised have been addressed to the AIE's satisfaction;
- Final comments and a determination opinion.

TÜV SÜD has performed a determination of the following proposed JI project activity: "YARA Köping S2 N2O abatement project in Sweden".

Standard auditing techniques have been used for the determination of the project. Methodology-specific checklists and protocol customised for the project have been prepared to carry out the audit and present the outcome in a transparent and comprehensive manner. The review of the project design documentation, the subsequent follow-up interviews and the further cross check of references have provided TÜV SÜD with sufficient evidence to determine the fulfilment of stated criteria in the protocol. In our opinion, the project meets all relevant UNFCCC requirements for the JI as well as all the requirements set by host country (Sweden) for approving projects under JI – Track 2. Hence, TÜV SÜD can recommend the project for registration under JI Track 2 in case letter of approval of at least Host Party is available. An analysis as provided by the applied methodology demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are, hence, additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions as specified within the final PDD version. The determination has been performed following the UNFCCC requirements, relevant host country requirements and is based on the information made available to us and the engagement conditions detailed in this report.

List of documents attached to the determination report form

Please attach relevant documents used in the determination process and check mark below accordingly

- PDD of the proposed JI activity**
- Determination report**
- Written approvals by the Parties involved, listed in the JI PDD**
- Modalities of Communication**
- Other relevant documents:**
 - Determination protocol**
 - List of persons interviewed included in annex 2 of the determination report**
- Any other documents (please list):**
 - E1 - S2_GC_confidential**

The AIE herewith declares that undertaking the determination for the proposed JI activity referred to above does not constitute a conflict of interest which is incompatible with the role of an AIE

Authorized officer signing for the AIE

Martina Burri

Date and signature

09/12/2011