

Minutes of Exhaust Systems PG Meeting

16 October 2014, ETN office, Brussels, Belgium

Attendees:

Dingo Kist	Aarding
David Champneys	BIHL
Elisabet Syverud	Dresser-Rand
Graham Hawkes	Frazer-Nash Consultancy
Marco Simoncini	GE Oil & Gas
Stefano Culp	GE Oil & Gas
Terje Kasperesen	HalvorenTec
Ole E. Torp	Mjorud
Paul Setchfield	Mjorud
Amaury Dambour	Solar Turbines
Joerg Gottwald	Statoil
Amelie Pesquet	Total
Dominique Orhon	Total
Claude Prebende	Total
Christer Björkqvist	ETN
Ugo Simeoni	ETN

1. Introduction by Chair/ETN Officer

Christer Björkqvist welcomed the project group to the ETN office and reported an expressed interest from the gas turbine users' community towards the Exhaust System Project and the development of an ETN/ ISO standard as well as the development in general of common standards which can be used as a reference to address many issues in this industry sector.

2. Short report on the status of the revised standard

Ugo Simeoni reported that many comments have been submitted for the last revision of the standard due to the higher involvement of OEMs. Therefore the previous scheduled deadline would need to be shifted and the ETN standard could most likely not be released by the end of 2014. Nevertheless it was highlighted that the scope of the standard is to provide guidelines for the industry sector and therefore new project group's members should be welcomed and their comments should not be restrictive.

3. Review of comments on the WHRES Standard

During the meeting, the present project group members reviewed the summary of comments in the draft standard item by item.

The first general comment brought to the attention of the project group was the introduction of ASME normative in the new comments submitted by GE Oil & Gas. Therefore it was discussed if other normative, in addition to ISO, should be considered into the standard (e.g. ASME, API). Since the standard would involve many partners who usually work with other normative rather than ISO, it was agreed that, where needed, new normative should be introduced.

It was recommended to contact the API to see their developments for WHRU recommended.

The normative references shouldn't be dated and the most recent version will be considered. If in the standard a reference is made to a norm's specific section in a specific version, the date of the version will then be specified locally in the text of the standard.

The text was edited progressively in accordance with the discussion and the agreed changes. The excel spreadsheet has been edited, deleting all the comments already discussed and implemented. The comments highlighted in yellow needs further discussions at the next meeting.

The following comments were to be further reworked:

Action Owner	Description	Deadline date
BIHL	Contact API for new recommended practices for WHRU	11 November 2014
GE Oil & Gas	Propose a table for the fouling factors for the section 7.2.2	11 November 2014
SOLAR	Review the wording for section 7.3.a with reference to ISO 3744	11 November 2014
Statoil	Review the section 7.4.3	11 November 2014
GE Oil & Gas	Rephrase the section 7.4.4	11 November 2014
Total	Update the reference normative and check if all norms referenced to are in the standard and likewise	11 November 2014
Total	Review the Standard reporting all the Temperature in °C and the ΔT in K	11 November 2014
Total	Review the Standard updating all heating medium or process fluid by HTM.	11 November 2014
SOLAR	complete their comment review	11 November 2014

4. WHRES Standard – The way forward (requirements and steps to initiate the ISO process)

Ugo Simeoni reported to the project group the requirements to create an ISO Standard sent by the Secretary of the ISO/TC 192, Robin Proctor. The draft Standard has been sent informally to Robin Proctor in order to get some initial feedbacks and advice on the next steps. The response of Robin Proctor has been very positive, encouraging the project group to proceed in the release of a Working Draft that can be presented to the ISO Committee.

Ugo Simeoni stated that there are time scales for the process steps which need to be followed and only one timescale extension is allowed. Therefore the project group decided to initiate the process after all the current comments on the standard have been implemented.

5. Next Meeting

In order to finalise the review of the standard, the group decided to set up the next meeting in November. After this meeting, the list of comments on the standard should be clarified and/or implemented in order to have the standard ready by the end of 2014 after which the project group will initiate the ISO process.

Frazer-Nash Consultancy and GE Oil & Gas proposed to host the next meeting in their promises. Due to the involvement of several departments of GE Oil & Gas in this last stage of review of the standard, it was decided that the meeting would take place at GE Oil & Gas hub, in Florence. Ugo Simeoni would send out a doodle for potential meeting dates as soon as GE Oil & Gas has verified available dates to host the meeting. The meeting will be held over a two day workshop.

In order to optimize the next meeting, each comment owner is requested to prepare their reason or requirement for the working group to review.