



Minutes of Exhaust Systems PG Meeting

12-13 January 2015, Dorking, UK

Attendees:

David Champneys	BIHL
David Lybek	Dresser-Rand
Graham Hawkes	Frazer-Nash
Stefano Cassola	GE Oil & Gas
Ole E. Torp	Mjorud
Paul Setchfield	Mjorud
Amaury Dambour	Solar Turbines
Joerg Gottwald	Statoil
Arne Skjelbakken	TechPart
Claude Prebende	Total
Ugo Simeoni	ETN

1. Introduction by Chair/ETN Officer

U. Simeoni opened the meeting and welcomed the project group members. He relayed the apologies of Amelie Pesquet, who unfortunately could not attend due to business reasons. In absence of A. Pesquet, Ole Torp, as co-chairperson chaired the meeting.

2. Short report on the status of the revised standard

U. Simeoni reported the status of the revised standard and went through the actions agreed during the last meeting in Brussels.

With regards to the table in section 7.2.2, it was revised by GE Oil & Gas and agreed during the meeting. GE Oil & Gas has reworded the section 7.8.2.2 and it was accepted by the PG.

It was discussed the decision taken in the last meeting to remove the GT exhaust gas collector section from the standard and it was agreed to specify in the Chapter 1 "Scope" of the Standard that, even if the GT exhaust gas collector is not covered in this standard, certain technical requirements contained within this standard may be relevant when designing it.

3. Review of comments on the WHRES Standard

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

The text was edited progressively in accordance with the discussion and the agreed changes. The excel spreadsheet was edited, deleting all the comments already discussed and implemented.

It was decided to move the section 7.11.2 to add it as subparagraph of the section 7.6.

It was agreed to add the paragraph 8.2 "Surface Preparation and Treatment". U. Simeoni would send out the paragraph to PG for additional comments about the content. All the comments have to be sent to ETN not later than 26th of January.

It was agreed that, before submitting to the ISO Committee, the draft had to be proof-read and all the normative referenced had to be updated. G. Hawkes has volunteered to carry out a proof-reading to identify and comment on any clear issues such as typos, repetition and 'structural' inconsistencies.

ETN would send to the PG a standard's draft with proof-read comments, updated normative references and the review of the section 8.2 in 'Track Changes' for additional comments.

A second stage review of the standard was proposed to be performed by a sub-project group composed of 4-5 partners. The sub-group will review the final draft, for which a meeting is proposed, and issue comments to all towards finalising the Standard for issue by ETN and into the ISO process.

ETN would send out an email to ask for potential interest among the PG members in being part of the sub-project group. It was agreed that the sub-group should include representation from all industry perspectives – i.e. Users / OEM's / Suppliers etc.

4. WHRES Standard – ISO process

U. Simeoni presented the steps required to initiate an ISO process and asked to the PG whether they would prefer to submit the draft standard to the ISO Committee as a Working Draft (WD) or a Committee Draft (CD). The PG agreed to submit the draft standard as CD.

5. GT Testing Programme

G. Hawkes presented to the PG the GT testing programme that was proposed to be part of the ISO standard in 2012. The purpose of this testing programme is to acquire data with which to validate the different type of CFD analyses on the Exhaust System. The programme was not implemented in 2012 due to the unavailability of a GT on which the tests could be performed. The PG agreed to circulate among the ETN members the project's outline of the programme in order to verify the interest in starting the programme. ETN would send out the project's outline to ETN's members.

6. Next Meeting

The PG agreed to schedule the next meeting upon the response of the Secretary of the ISO Committee to the draft submission.

Annex I: Action list

Action Owner	Description	Deadline date
ETN	Sent to the PG Section 8.2	16 January 2015
All	Comment the section 8.2	26 January 2015
ETN	Send to the PG email to constitute sub-project group.	27 January 2015
ETN	Send to ETN's members the project's outline of the GT Testing Programme.	27 February 2014
G. Hawkes	Proof-read the document	6 February 2015
ETN	Issue the standard's draft to the PG for comments prior the sub-group review.	13 February 2015