



Minutes of Exhaust Systems PG Meeting

26 & 27 May 2015, Brussels, Belgium

Attendees:

Stefano Cassola	GE Oil & Gas
Paul Setchfield	Mjorud
Joerg Gottwald	Statoil
Ugo Simeoni	ETN

1. Introduction by Chair/ETN Officer

U. Simeoni opened the meeting and welcomed the sub-project group members. Apologies were received from A. Pesquet and A. Dambour.

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.

3. Review of comments on the WHRES Standard

During the meeting, the present sub-PG members reviewed the remaining Fraser Nash comments in the draft standard, item by item together with the additional comments notified by Mjorud and those arising during the review.

The following actions need to be reviewed for progressing towards the final version of the standard.

- 1) Check and rationalize the correct use of *Tube Bundles*, *coils* and *pressure parts* into the text.
- 2) It was noted and considered that references to *supplementary and auxiliary firing and burners* in the standard are incomplete and thus confusing. Accordingly the meeting proposed that all references and text be removed and the exclusion be added to Item 1 – Scope (page 7) such that all fired versions of WHRU products are excluded from the standard. This is easily edited and can be incorporated now.
- 3) It was considered that paragraphs 8.4 Fabrication and 8.5 Welding would better be placed in a new Appendix D for the guidance of those requiring it. This change is also easily effected, but if this is adopted then Item 8. Structure and Fabrication should be re-organised to retain the remaining Item 8 texts (which add value to the standard.) See below a 'post meeting' proposal :-

ITEM NO.	EXISTING TEXT	PROPOSED CHANGE	COMMENT
8	STRUCTURE AND FABRICATION	DELETE	
8.1	Steel Structures, Stairs, Ladders and Platforms	Support Structure Stairs, Ladders and Platforms relocate / re-number as 7.13	Is part of Exhaust System Design & Engineering
8.2	Surface Preparation and Treatment	Relocate / re-number as 7.6.4 – & sub-sections accordingly	Refers to the casing and ducting
8.3	Preservation and Packing	Relocate / re-number as 7.14 –	Is part of Exhaust System

		& sub-sections accordingly	Design & Engineering
8.4	Fabrication	Move to new Appendix D	As guidance only – add a note to that effect at Item 1 – Scope
8.5	Welding	Move to new Appendix D	As guidance only – add a note to that effect at Item 1 – Scope
8.6	Inspection and Testing	Relocate / re-number as 7.15 – & sub-sections accordingly	Relates to Exhaust System Design & Engineering
	APPENDIX A & B – Application of CFD to Exhaust System Design / Application of Thermal & Structural Analytical Techniques to Exhaust System Design	Add a note at Item 1 Scope – to say that the Purchaser shall specify the extent of use of these Appendices	It is for guidance and not all mandatory and this should be clear
	APPENDIX C – Information to be Provided by Purchaser	Add a note at Item 1 Scope – to say that the Purchaser shall address the requirements of this Appendix in preparing the RFQ and for project execution	Some explanation of all the Appendices will be helpful to the user of the Standard

- 4) Rationalize the use of *Fibre lining* definition in the standard – several words are used for the same purpose – e.g. insulation.
- 5) Review of the chapter 10 *Access and Maintenance*, currently WHRU focused, with the aim to split it in two, one general for the *Exhaust System* and one specific for the *WHRU*.
- 6) The revisions to Section 7 of the standard in hand with A. Pesquet and those arising from this meeting to be implemented and promptly issued to Action Owners so that the further review and editing actions agreed are implemented against the latest text.

4. Next Steps

The sub-PG agreed to target completion of the revision of the standard by 26 June 2015. The standard will be sent to the PG for approval. The standard will be submitted to the ISO/TC 192 by the end of September.

Annex I: Action list

Action Owner	Description	Deadline date*
Mjørud	Review points 1), 4), 5)	31 July 2015
GE Oil & Gas	Review point 2)	31 July 2015
ETN	Review points 3)	31 July 2015
ETN	Formatting and Revision of the entire standard	31 July 2015
ETN	Submission of the standard to the ISO/TC 192	30 September 2015

***Subject to early receipt and review of the edits in hand by U. Simeoni and A. Pesquet**