



Minutes of Exhaust Systems PG Meeting

19 October, Brussels, Belgium

Attendees:

Dingo Kist	Aarding Thermal Acoustics
Herwart Hoenen	RWTH Aachen
David Champneys	BIHL
Pål Kloster	Kanfa-Tec
Ole E. Torp	Mjørud
Paul Setchfield	Mjørud
Joerg Gottwald	Statoil
Arne Skjelbakken	TechPart AS
Amélie Pesquet	Total
Karen Geris	ETN

1. Review of the minutes of last meeting

The minutes of the meeting were approved.

2. CFD Benchmark Case - update

In an earlier teleconference, it was decided to postpone the CFD benchmark case. This would give the Project group additional time to design the necessary measurement set-up as well as to prepare the necessary financial and contractual agreements. During the meeting, Total reconfirmed their support in the CFD Benchmark Case and is currently discussing internally which project would be suitable for the measurements. Total stated there were a couple of suitable projects in Nigeria, one of which is planned to be tested in late 2014.

Statoil stated that there should be clear structure and management for the benchmark project, considering its budget. There should be a project plan with dedicated people, companies and timescales for each activity. Total and RWTH Aachen agreed and committed to make such a plan, as well as a timeline, both for the measurement set-up as well as the financial agreements.

Other O&G users are encouraged to contact ETN if they see a possibility for the measurements to be performed on one of their GT.

In the meantime, the project group will focus on the completion of the exhaust systems standard.

3. Review of comments on the WHRU Standard

The project group members agreed that the standard should not be product specific but it should rather be a discussion of different allowed solutions. It was agreed that the standard should be completed within in the year 2013.

During the meeting, the present project group members reviewed the summary of comments to the standard item by item. The text was edited progressively in accordance with the discussion and the agreed changes. The spreadsheet would later be re-issued for further review. The following comments were to be further reworked:

Action Owner	Description	Deadline date
David Champneys, Paul Setchfield	prepare draft text covering the Scope of the Document, as Introduction	20 January 2013
Paul Setchfield	Send his remarks for comment 13 regarding the design temperatures and the gas turbine trip temperatures to Karen Geris	20 January 2013
?	Comment 15: delete last sentence	20 January 2013
?	Comment 16: delete point	20 January 2013
Paul Setchfield	Rewrite comment 21 on coil vent and drain issues	20 January 2013
David Champneys	Rewrite comment 31 and 32 on tube support issues	20 January 2013

Paul and David agreed to co-operate on above re-writes, such that mutually agreed text be prepared for wider review and comment

4. Next Meetings

In order to finalise the review of the standard as soon as possible, the group decided to have a two-day meeting in January. After the meeting, the standard would be reviewed one more time by all partners and finalized during a meeting in April in Pisa.

ETN would do research into the different standards to find the most suitable for the ETN standard, but would focus the search on ISO standards as this was initially agreed with Shell at the beginning of the project.

Amelie will not be present at the upcoming meetings due to her maternity leave but Claude will represent Total and Ole Torp, co-chairman, can chair the meetings if necessary.

- 22-23 February, hosted by Mjørud in Norway: finalising the review of the comments on the standard
- 18 April, Pisa: finalising the WHRU standard, discussing and deciding upon an international standard format