

HyNet Hydrogen Production Plant 1 – Technical Note

EPR Response – 5e – Emission Monitoring in the Stacks

Summary

Problem Statement

Confirm emission monitoring in the stacks of the Feed Gas Heater and Steam Boiler will comply with the requirements of standard BS EN 15259:2007 'Requirements for measurement sections and sites and for the measurement objective, plan and report.'

Response

Summary

The comment applies to Project Datasheets for the Feed Fired Heaters (Document Number. 5194812-000-45ED-4-0003) and the MP Steam Boiler (Document Number, 5194812-000-45ED-4-0013).

The requisition packages ask for emission monitoring ports but do not detail their location or that they should comply with BS EN 15259:2007.

Kent received proposals for the Feed Fired Heaters from two (2) vendors during the FEED stage:

- Verga Engineering
- BIHL

Kent received proposals for the MP Steam Boilers from two (2) vendors during the FEED stage:

- Rentech
- Macchi

All Vendors were asked to confirm if emission monitoring in the stacks will comply with the requirements of BS EN 15259:2007. Verga Engineering, BIHL and Rentech replied with the following:

Verga Engineering: Confirmed. Proper connections (at specific locations) can be foreseen to comply with BS EN15259:2007

BIHL: Confirmed.

Rentech: We confirm emission monitoring ports and access ladders and platforms in the stacks will comply with the requirements of BS EN 15259:2007. CEMS is not included.

Macchi has not provided a response yet.

The Vendors who have replied confirm that the stacks will be provided with emission monitoring ports that comply with the requirements of BS EN 15259:2007.

Updates to Design

The project datasheets have been marked up ready for the next issue to request stacks to comply with the requirements of standard BS EN 15259:2007. During Detailed Design it should be determined if the CEMS should be included in the scope of supply of these packages or bought separately.

Updates are required to the project datasheet (Document No. 5194812-000-45ED-4-0003) as follows:

ADD, Page 9: Note 3, Emission Monitoring the stacks to comply with the requirements of BS EN 15259:2007.

ADD Page 8: Note 3, Emission Monitoring the stacks to comply with the requirements of BS EN 15259:2007.

These are shown as red line markups in Attachment 1 and 2.

ATTACHMENT 1: Project Datasheet Red Line Mark-Up

(Datasheet No. 5194812-000-45ED-4-0013)

ATTACHMENT 1: Project Datasheet Red Line Mark-Up

(Datasheet No. 5194812-000-45ED-4-0003)