

## HyNet Hydrogen Production Plant 1 – Technical Note

### EPR Response – 11A – Emergency Generators

#### Summary

##### Problem Statement

Advise the net rated thermal input of the diesel Firewater Pump.

#### Response

##### Summary

Kent received pump proposals from four (4) vendors during the FEED phase of the project. The most detailed proposal for the firewater pumps was from SPP Pumps. They selected the following engine for their diesel engine driven firewater pump package:

<b>DRIVER TYPE</b>	Diesel Engine
➤ Manufacturer	Cummins
➤ Model	CFP9E-F50
➤ Speed	1480rpm (Nominal)
➤ Rating (Gross)	208kW
➤ Listing	FM Approved & UL Listed

**Fig. 1: SPP Pumps Driver Selection for the Diesel Driven Firewater Pump.**

Catalogue information about this diesel engine is included in Attachment 1.

The net rated thermal input of this diesel engine is approximately 568.3 kW.

This is the best estimate available at the moment, as no full technical bid evaluations have been carried out yet and a Vendor has not been formally selected. This activity will be carried out during the next phase of the project.

##### Updates to Design

None required. Clarification has been answered directly.

Catalogue information on the proposed engine for the SPP package solution is included in Attachment 1.

Attachment 1: Cummins CFP9E-F50 Engine Specification Sheet