

Network Innovation Competition Full Submission

Supplementary Answer Form

Tick if this answer is Confidential: ☐

Tick if this answer has been provided verbally: ☐

Project code:	NGGTGN01	Question Number	23
Question date	03 October 2013	Answer date	10 October 2013
Submission section question relates to			
Topic			
Question	<p>Explain how the IPR arrangements for the project provide consumers with value for money. In particular: how will the IPR arrangements impact on the replication of this technique on the 75% of the fleet which are non-Rolls Royce compressors? How will the 'know how' from the trial of the application be disseminated to other manufactures?</p>		
Notes on question			
Answer	<p>Frazer Nash's enquiries show that Dresser-Rand, GE, Solar and Man Turbo have explored to varying degrees, aspects of the application of inlet guide vanes to gas pipeline compressors in the past and have the capability to develop the 'know-how' without needing access to Rolls Royce IP (see table 4 of Fraser Nash report). Siemens, apparently, have not, but it is not credible to consider that they could not develop this technology if they had a business driver. Based on the above, all OEMs appear to have the ability to develop VECTOR technology.</p> <p>We have reached an outline agreement with Rolls Royce which will result in Rolls Royce funding their own design costs. Therefore the IPR developed by this project will relate to the installation and performance of the VECTOR technology which we will disseminate in line with default IPR arrangements.</p> <p>However VECTOR project involves the following stages of knowledge generation:</p> <p>STAGE 1: → Design – including software modelling & prototyping</p> <p>STAGE 2: → On-site Installation</p>		

	<p>STAGE 3: → Commissioning</p> <p>STAGE 4: → Performance Trials & Development of Operating Philosophy</p> <p>Rolls Royce's IP concerns Stage 1 only – design. The other areas of knowledge generation would not be limited by Rolls Royce's IP. The OEMs could independently develop a safe and effective design which achieves VECTOR functionality for their equipment utilising the learning from this project.</p> <p>The result of the VECTOR project would enable NGGT to specify the following in its specification documents:</p> <ul style="list-style-type: none"> • Functionality; • Performance requirement and performance guarantees; • Acceptable installation criteria; • Acceptable operational criteria e.g. Mean Time Between Failures, Mean Time To Repair; • Safety Requirement. <p>Therefore consumers will be funding the demonstration of this technology and proving its value in the transition to the low carbon economy which will stimulate the demand for other manufacturers to offer this technology to the UK market in response to NGGT including it in our future specifications.</p>
Attachments	
Verbal Clarifications (Consultants)	