

Action from the Offtakes Work Group 30/10/12

Updates from ITEs

Keith Vugler 29/10/12

Professor Malalasekera gave a presentation on the latest results of the CFD model. He stated that he had populated a different turbulence model to the one he had been using in earlier tests with a much improved “mesh concentration” and improved calculation method obtaining excellent correlation against a number of the site flow tests results. This has given me improved confidence that we can now use these CFD results to support the flow tests. However, I require him to provide an additional set of results to ensure the model is completely traceable and believe that Ben Kirkman will shortly be contacting you (or Trevor) to request extra funds to complete this work.

- Providing the additional set of results are acceptable, I see the following timeline developing as follows;
- Await completion of additional CFD testing, arrange a meeting with Professor Malalasekera and Ben to discuss and agree the results (November/December 2012).
- Arrange to have the CFD results “peer checked” by an independent specialist company as per my response to the British Gas comment 5. This will require a SGN PO to be raised on the appropriate company against a scope of work established by the IE’s. Over the next few days I will be discussing the requirement with NEL to confirm that they can provide this service and a budgetary cost for your review (December 2012/January 2013).
- Once the “peer review” is complete (with hopefully favourable feedback), I can then incorporate the current CFD analysis results within my report (January/February 2013).
- Arrange a “penultimate” JO presentation to share my provisional findings in addition to incorporating a detailed CFD presentation by Professor Malalasekera (February 2013).
- When the JO are satisfied that my review incorporates all possible technical areas and are comfortable with the results, I will meet with Ben to agree our combined report and presentation (as required by the JO) (February/March 2013).
- Arrange the final JO presentation (March/April 2013).

Ben Kirkman 29/10/12

The CFD results were presented earlier today and look suitable to support the experimental data. I have requested that the study is extended to include the case that was present for the last week or two of the error (counter reading of 99950). It was not included in the original scope because the experimental results have higher uncertainties at this point so I thought it best to use the more accurate data first. Now that I have confidence in the CFD results I think it would be valuable to set up this test case and get some results. The other ITE is initiating a peer review process following the comments received but I will not have any input into this. This will keep it as independent and robust as possible to reflect the magnitude of the error. This work will look to be completed in the next two months and will then be presented to the Joint Office before the final report is issued.