

**UNC Workgroups 0498/0502 Minutes**  
**Amendment to Gas Quality NTS Entry Specification at BP**  
**Teesside System Entry Point**  
**Thursday 02 October 2014**  
**ENA, Dean Bradley House, 52 Horseferry Road, London SW1P 2AF**

**Attendees**

Les Jenkins (Chair)	(LJ)	Joint Office
Ian Hollington (Secretary)	(IH)	Joint Office
Andrew Pearce	(AP)	BP Gas
Andy Giles	(AG)	GDF Suez
Andy Heppel	(AH)	TGPP
Andy Macauley	(Ma)	BP
Anna Shrigley	(AS)	ENI UK
Antony Miller	(AMi)	Centrica Storage
Charles Ruffell	(CR)	RWEst
Colin Hamilton	(CH)	National Grid NTS
Colin Williams	(CW)	National Grid
David Reilly	(DRe)	Ofgem
Dennis Rachwal	(DRa)	National Grid NTS
Francisco Goncalves	(FG)	Gazprom
Graham Jack	(GJ)	Centrica
Jeff Chandler	(JCh)	SSE
Julie Cox	(JCx)	Energy UK
Kirsten Elliott-Smith	(KES)	Cornwall Energy
Lucy Field (part)	(LF)	Poyry Consulting
Mathew Bacon	(MB)	DECC
Natasha Ranatunga	(NR)	EDF Energy
Nick Wye	(NW)	Waters Wye Associates
Phil Hobbins	(PH)	National Grid
Richard Fairholme*	(RF)	E.ON
Rosie Firth	(RF)	Centrica Storage

\*via teleconference

Copies of papers are available at: [www.gasgovernance.co.uk/0498/021014](http://www.gasgovernance.co.uk/0498/021014)

Modification 0498 - Amendment to Gas Quality NTS Entry Specification at BP Teesside System Entry Point

Modification 0502 - Amendment to Gas Quality NTS Entry Specification at the px Teesside System Entry Point

The Workgroup Report (combined 0498 and 0502) is due to be presented at the UNC Modification Panel by 20 November 2014.

## 1.0 Review of Minutes and Actions

### 1.1 Minutes

RH had proposed the following changes to the minutes of the previous meeting.

Pages 6 and 11 - **ACTION 0901:** National Grid NTS (RH) to write to Terminal Operators and request they provide 13 months of CO2 data (entry and exit) for the following sub terminals: Bacton, Easington, St Fergus, Barrow and Theddlethorpe and also the 2 sub

terminals from BP directly to the workgroup.

Following agreement of this amendment the minutes were accepted and will be re-published accordingly.

## 1.2 Actions

**0801:** Invite DECC to provide a view on these modifications for inclusion in the Workgroup's report.

**Update:** MB was in attendance at today's meeting to represent DECC. **Closed.**

**0802:** *Variability Data for major entry/exit points:* DRa to consider what can be made available (if already collected), or what can be recovered and provided on a regular basis if not already gathered.

**Update:** DRa gave a presentation showing UK variations in CO<sub>2</sub> levels and the nature of this information was discussed. It was agreed that a good approach would be to initially identify one day where there were high variations and following analysis expand the scope to investigate up to six similar days.

The analysis is to include: the demand on that day: the hourly average and its effect on the system: the frequency of this occurrence: where the affected exit points were located. AH, AM, AP and DRa to work together to provide this analysis. **It was agreed that this closed action 0802**

**NEW ACTION 1001: AH,AM, AP and DRa to provide an analysis of examples of high variations in CO<sub>2</sub> levels to include: the demand on that day: the hourly average and its effect on the system: the frequency of this occurrence: where the affected exit points were located.**

**0803:** *Variability Data for major entry/exit points:* All parties to review the UNCORM Data Dictionary (<http://www.gasgovernance.co.uk/tpddocs>) and other recognised data sources, and assess and report on the capability of providing sufficiently current and accurate data to inform Workgroup views.

**Update:** The presentation given by DRa included this topic. JC voiced his concerns that a number of wider issues could have an effect on any information provided. It was agreed to leave this item open, **Carried forward**

**0804:** *Assessment of Environmental Impacts* - For each Modification, the Proposers to review and consider providing appropriate information to meet the requirements necessary under the UNC.

**Update:** AH advised that he was working on this assessment with colleagues from BP and expected to be able to present it at the next meeting. LJ noted an aspiration for the assessment to have been considered and completed within the next three months. **Carried forward**

**0807:** *'Rate of change' issues for operating equipment* - Consider providing examples or information where this sort of problem had been experienced/encountered before.

**Update:** JC advised that he is preparing a paper on this topic. **Carried forward**

**0808: CATS and TGPP infrastructure** – Provide revised schematic to confirm how facilities will be configured, what will be upgraded and likely combined costs.

**Update:** AH requested this item is carried forward. **Carried forward**

**0809: Offshore Development Opportunities** – Proposers to describe what these are and their timings, and the potential forecast variations in CO<sub>2</sub>, and then assess the potential effects on Teesside gas entry quality. (BP also to confirm if the forecast information is the most up-to-date.)

**Update:** AP advised that as well as the Jackdaw field there are two additional minor fields with high levels of CO<sub>2</sub>, however as the gas from these can be blended their affects were minimal. LJ asked if there was need to look at the possibility of further similar fields being developed and although the group thought this unlikely MB agreed to check if a document had been published listing future development plans, even if aggregated. **NEW ACTION 1002: MB to advise if any information on the development of proposed new gas fields has been published and to provide this to the workgroup if available.**

**0810: ETS and venting of CO<sub>2</sub> emissions** – Proposers to confirm what is included/excluded and how dealt with.

**Update:** AP requested that this item be carried forward. AH advised that they were still working on the offshore position but could confirm that when CO<sub>2</sub> is extracted onshore it will be vented to atmosphere. The extraction process burns gas to remove the Volatile Organic Compounds meaning that, under the EU ETS scheme the CO<sub>2</sub> released will have to be declared. **Carried forward**

**0901: National Grid NTS (RH) to write to Terminal Operators and request they provide 13 months of CO<sub>2</sub> data (entry and exit) for the following sub terminals: Bacton, Easington, St Fergus, Barrow and Theddlethorpe and also the 2 sub terminals from BP directly to the workgroup**

DRa confirmed that National Grid had written to a number of terminal operators requesting information and what had been received had been published on the Joint Office web site. He advised that not all of the companies contacted had provided information, with some refusing on the grounds of confidentiality and some not replying.

The lack of response was discussed as was the possible reasons. It was suggested that DECC are the only organisation with any influence in this area and AH agreed to discuss this further with them.

DRa said he would send the latest update to the Joint Office for publication and it was agreed to leave this item open. **Carried forward.**

**NEW ACTION 1003: AH to discuss with DECC how the organisations involved can be encouraged to participate in order to improve the levels of response to the requests for information.**

**0902: NTS Compressor Historical Data (CO<sub>2</sub> variability) - National Grid NTS (RH) to ascertain if this data can be made available, and if so provide to Workgroup.**

**Update:** This topic was included in the presentation given by DRa in which he confirmed that National Grid did not have CO<sub>2</sub> data and that carbon emission factors were used. **Closed.**

**NEW ACTION 0903: MH to acquire gas quality data from known fields that flow gas into St Fergus.**

**Update:** Please refer to action item 0901. **Closed.**

**0904: CV Shrinkage - risk of FWACV capping - National Grid NTS to clarify its interpretation of the term 'significant', and the starting point and quantify the effect.**

DRa discussed a slide covering shrinkage and advised that the annual NTS shrinkage of 1% was considered to be small overall. He went on to say that the potential impact of a change in the CO<sub>2</sub> allowance at Teeside would also be considered small in National Grid's opinion. After opening this up to the group for discussion there was no disagreement to his view.

The group discussed if this model could be used to forecast CO<sub>2</sub> levels. When DRa pointed out that the figures were only an indication given in order to be able to forecast shrinkage it was decided that it would not be suitable.

Together with the presentation given under action 0802 this was considered to be closed.

**Action Closed**

## 2.0 Discussion

LJ gave an overview of what he considered to be the five key themes that needed to be addressed in the Workgroup Report. These were, in no particular order:

- CO<sub>2</sub> variability/high absolute values and its effect on exit points;
- the impact on consumers - warranty, operational and emissions related;
- CO<sub>2</sub> removal and whether this was best carried out onshore or offshore;
- Completion of a carbon cost assessment, which he estimated would involve three months work, and;
- the future outlook for similar gas sources in terms of setting precedents, the context and value / cost for the UK together with the view from DECC.

LJ went on to discuss the timeline for this modification and advised he would ask Panel for a six months extension to May 2015.

AMa expressed his concern at the length of time this modification was taking and LJ advised that it was within the Proposers gift to apply further resources and accelerate the process if they wished to.

Summarising that the assessment was now at the point of requiring more detailed analysis LJ asked if this modification should be held on a series of standalone days. This was agreed and the dates for the next meetings are 10 November at the Energy Networks Association, Dean Bradley House, 52 Horseferry Road, London SW1P 2AF and 8 December at Elexon Ltd 5th Floor, 350 Euston Road, London, NW1 3AW.

## 3.0 Legal Text

None available for review/discussion.

## 4.0 Workgroup Report

This aspect was not discussed at today's meeting.

**5.0 Any Other Business**

None

**6.0 Diary Planning**

Further details of planned meetings are available at: [www.gasgovernance.co.uk/Diary](http://www.gasgovernance.co.uk/Diary)

Going forward Workgroup 0498/0502 will hold it's own meetings. The next ones will take place on Monday 10 November at Energy Networks Association, Dean Bradley House, 52 Horseferry Road, London SW1P 2AF and Monday 8 December 2014 at Elexon Ltd 5th Floor, 350 Euston Road, London, NW1 3AW

**Action Table – Combined Workgroup 0498/0502 (04 September 2014)**

Action Ref	Meeting Date	Minute Ref	Action	Owner	Status Update
<b>0601 (a)(ii)</b> (Action expanded at August Meeting)	05/06/14	2.0	<p><i>Issue 1: What is the impact on gas quality at the entry and exit points for a change in the CO<sub>2</sub> to 4% in relation to:</i></p> <ul style="list-style-type: none"> <li>• CV</li> <li>• Wobbe</li> <li>• Variability in h/d/w timeframes</li> <li>• for operation (eg maintenance and performance).</li> </ul> <p>(a)(ii) Provide historical/forecast data on gas quality at other entry points.</p> <p>DRA to consider if the following can be provided and analysed to produce comparisons with Teesside data:</p> <p><i>Entry Points:</i> Bacton, Easington, St Fergus, Barrow and Theddlethorpe and also the 3 sub terminals from BP.</p> <p><i>Gas Quality Elements:</i> Historic CO<sub>2</sub>, Wobbe, and GCV.</p>	NTS (DRa)	<b>Closed</b>
<b>0601 (a)(iii)</b>	07/08/14	2.0	DRA to consider analysing and comparing GCV for entry points on the East coast.	NTS (DRa)	<b>Closed</b>

<b>Action Ref</b>	<b>Meeting Date</b>	<b>Minute Ref</b>	<b>Action</b>	<b>Owner</b>	<b>Status Update</b>
<b>0603</b>	05/06/14	2.0	<i>Issue 3: What is the impact on OEM Warranties if increased levels of CO<sub>2</sub>/inerts are seen?</i> Seek views from Energy UK members, regarding volumes/types/ locations/limits.	Energy UK (JCx)	<b>Closed</b>
<b>0605(a)</b>	05/06/14	2.0	<i>Issue 5: What is the local impact on the DN and NTS operators?</i> a) Understand the network flow impacts (see the GrowHow representation) – in relation to pressure/volumes/CV shrinkage.	NTS (DRa)	<b>Closed</b>
<b>0605(b)</b>	05/06/14	2.0	<i>Issue 5: What is the local impact on the DN and NTS operators?</i> b) Consider any impact on IPs.	NTS (DRa)	<b>Closed</b>
<b>0801</b>	07/08/14	1.2	Invite DECC to provide a view on these modifications for inclusion in the Workgroup's report.	Proposer (AH)	<b>Closed</b>
<b>0802</b>	07/08/14	1.2	<i>Variability Data for major entry/exit points</i> - DRa to consider what can be made available (if already collected), or what can be recovered and provided on a regular basis if not already gathered.	NTS (DRa)	<b>Closed</b>
<b>0803</b>	07/08/14	1.2	<i>Variability Data for major entry/exit points</i> - All parties to review the UNCORM Data Dictionary ( <a href="http://www.gasgovernance.co.uk/tpddocs">http://www.gasgovernance.co.uk/tpddocs</a> ) and other recognised data sources, and assess and report on the capability of providing sufficiently current and accurate data to inform Workgroup views.	ALL parties	<b>Carried forward</b>

Action Ref	Meeting Date	Minute Ref	Action	Owner	Status Update
0804	07/08/14	2.0	<i>Assessment of Environmental Impacts</i> - For each Modification, the Proposers to review and consider providing appropriate information to meet the requirements necessary under the UNC.	Proposers (AC and AH)	<b>Carried forward</b>
0805	07/08/14	2.0	<i>Ofgem document (dated 20 September 2004) relating to Gas Quality</i> – NR to provide link to document to DRa and DRa to check currency of information relating to sub terminals, and establish of the 13 sub terminals which take some domestic gas, which of them take 4mol%.	EDF Energy (NR) and NTS (DRa)	<b>Closed</b>
0806	07/08/14	2.0	<i>Gas Quality at Teesside</i> – DRa to consider providing information on the gas quality at both entry and exit for comparison and assessment of effects.	NTS (DRa)	<b>Closed</b>
0807	07/08/14	2.0	<i>'Rate of change' issues for operating equipment</i> - Consider providing examples or information where this sort of problem had been experienced/encountered before.	SSE (JC)	<b>Carried forward</b>
0808	07/08/14	2.0	<i>CATS and TGPP infrastructure</i> – Provide revised schematic to confirm how facilities will be configured, what will be upgraded and likely combined costs.	TGPP (AH)	<b>Carried forward</b>
0809	07/08/14	2.0	<i>Offshore Development Opportunities</i> – Proposers to describe what these are and their timings, and the potential forecast variations in CO <sub>2</sub> , and then assess the potential effects on Teesside gas entry quality. (BP also to confirm if the forecast information is the most up-to-date.	<i>It was agreed that BP should lead on this action.</i> BP Gas (AC/AP)	<b>Carried forward</b>

Action Ref	Meeting Date	Minute Ref	Action	Owner	Status Update
0810	07/08/14	2.0	<i>ETS and venting of CO2 emissions</i> – Proposers to confirm what is included/ excluded and how dealt with.	Proposers (AC/AP and AH)	<b>Carried forward</b>
0901	04/09/14	1.2	National Grid NTS (RH) to write to Terminal Operators and request they provide 13 months of CO2 data (entry and exit) for the following sub terminals: Bacton, Easington, St Fergus, Barrow and Theddlethorpe and also the 2 sub terminals from BP directly to the workgroup	National Grid NTS (RH)	<b>Pending</b>
0902	04/09/14	1.2	<i>NTS Compressor Historical Data (CO<sub>2</sub> variability)</i> - National Grid NTS (RH) to ascertain if this data can be made available, and if so provide to Workgroup.	National Grid NTS (RH)	<b>Closed</b>
0903	04/09/14	1.2	MH to acquire gas quality data from known fields that flow gas into St Fergus.	Oil & Gas UK (MH)	<b>Closed</b>
0904	04/09/14	1.2	<i>CV Shrinkage - risk of FWACV capping</i> - National Grid NTS to clarify its interpretation of the term 'significant', and the starting point and quantify the effect.	National Grid NTS (RH)	<b>Closed</b>
1001	02/10/14	1.2	An analysis of examples of high variations in CO2 levels to be provided. To include: the demand on that day: the hourly average and its effect on the system: the frequency of this occurrence: where the affected exit points were located.	National Grid (DRa) to work with AH and AM)	<b>Pending</b>
1002	02/10/14	1.2	MB to advise if any information on the development of proposed new gas fields has been published and to provide this to the workgroup if available.	DECC (MB)	<b>Pending</b>



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<b>Action Ref</b>	<b>Meeting Date</b>	<b>Minute Ref</b>	<b>Action</b>	<b>Owner</b>	<b>Status Update</b>
1003	02/10/14	1.2	Discussions to be held with DECC on how the organisations involved can be encouraged to participate in order to improve the levels of response to the requests for information.	TGPP (AH)	Pending