UNC Workgroup 0714 Minutes

Amendment to Network Entry Provision at Perenco Bacton terminal Thursday 05 March 2020

at Elexon, 350 Euston Road, London, NW1 3AW

Attendees

Alan Raper (Chair)	(AR)	Joint Office
Helen Bennett (Secretary)	(KV)	Joint Office
Loraine O'Shaughnessy	(LOS)	Joint Office
Adam Bates	(AB)	South Hook Gas
Alex Barnes	(ABa)	Waters Wye Associates
Andrew Pearce	(AP)	BP
Angus Paxton	(APa)	Afry
Anna Shrigley	(AS)	Eni Trading & Shipping
Anna Stankiewicz	(ASt)	National Grid
Ashley Adams	(AA)	National Grid
Bethan Winter	(BW)	Wales & West Utilities
Bill Reed*	(BR)	RWE
Chris Wright	(CW)	ExxonMobil
David Mitchell*	(DM)	SGN
David Adlam	(DA)	Cadent
Debra Hawkin	(DH)	TPA Solutions
Emma Buckton*	(EB)	Northern Gas Networks
Jeff Chandler*	(JC)	SSE
Jennifer Randall	(JR)	National Grid
John Costa	(JCo)	EDF Energy
Julie Cox	(JCx)	Energy UK
Kamila Nugumanova	(KN)	ESB
Kamla Rhodes	(KR)	Conoco Phillips
Lea Slokar	(LS)	Ofgem
Leyon Joseph*	(LJ)	SGN
Malcolm Montgomery	(MM)	National Grid
Paul Youngman*	(PY)	Drax
Phil Hobbins	(PH)	National Grid
Richard Fairholme*	(RF)	Uniper
Richard Pomroy	(RP)	Wales & West Utilities
Steve Pownall	(SP)	Xoserve
Steven Britton	(SB)	Cornwall Energy
Terry Burke	(TB)	Equinor
Tracy Brogan*	(TB)	Neptune Energy
Will Webster	(WW)	Oil & Gas UK

*via teleconference

Copies of all papers are available at: www.gasgovernance.co.uk/0714/050320

The Workgroup Report is due to be presented at the UNC Modification Panel by 16 April 2020.

1.0 Introduction and Status Review

1.1. Approval of Minutes (23 January 2020)

The minutes from the previous meeting were accepted.

2.0 Initial Representation - Uniper

See update to outstanding Action 0202.

3.0 Review of HSE timings

PH provided a presentation which covered the following:

Flow Weighted Average CV (FWACV) - Recap

FWACV Calculation

CV Shrinkage

Modification 0714 FWACV Analysis Billing CV Maps: 2019/20 Base Case Billing CV Maps: 2025/26 Base Case Billing CV Maps: 2019/20 Scenario 1 Billing CV Maps: 2025/26 Scenario 1 Billing CV Maps: 2019/20 Scenario 2 Billing CV Maps: 2025/26 Scenario 2 Billing CV Maps: 2019/20 Scenario 3 Billing CV Maps: 2025/26 Scenario 3 Conclusions

During the presentation PH advised that National are no longer proposing to pursue the HSE Exemption and are now looking at exploring a solution within the terminal. PH is looking to see if National Grid can setup an arrangement to operate the terminal in such a way the Wobbe Index of the terminal output gas is not impacted.

For now, the Modification is staying as-is and he is hopeful an amended Modification will be submitted in time for the next Workgroup meeting in April 2020.

In summary, PH concluded:

Scenarios 1 and 3 result in CV capping affected by the low CV gas coming in from Perenco but are unlikely to occur in reality.

Scenario 2 does not result in CV capping that is due to the low CV of gas coming in from Perenco. Scenario 2 is more realistic, though still takes a worst-case view of Perenco CV.

During these discussions, it was suggested that biomethane flows could, in theory have a large impact on capping, as shown in Scenario 2. In reality, however, CV capping due to biomethane sites should not occur as they are currently required to enrich to a higher CV.

4.0 Review of impacts on downstream customers

This was not considered at this meeting.

5.0 Amended Modification

The Modification has not been amended since the last Workgroup meeting, however, PH confirmed it will be amended, the revised solution is actively being worked on and the amended Modification will be submitted within the next 2-3 weeks.

6.0 Development of Workgroup Report

This was not considered at this meeting.

7.0 Review of outstanding actions

Action 1203: Neptune Energy/Centrica (TB) to contact Ofgem to ascertain if there was a requirement for them to undertake an Impact Assessment.

Update: No update. **Carried forward**

Action 0201: National Grid (PH) to investigate the FWACV impacts on this proposed change.

Update: Please see update provided and captured as part of agenda item 3.0. Closed

Action 0202: All to provide feedback in relation to the commercial implications of flow weighted averages and the associated impacts of this proposed change.

Update: RF advised that Uniper have submitted an initial representation which is published on the Joint Office website: www.gasgovernance.co.uk/0714/050320. The key points of the initial representation are as follows:

- As the Wobbe Index (WI) reduces the part load CO tends to increase. For most gas turbines it the CO emissions limit that determines what their minimum export load is, thus part load CO issues can limit part load operation when operating on low WI fuels.
- The reduced reactivity of low WI fuels changes the flame structure and position which tends to have an adverse impact on combustion dynamics (pulsations). This can lead to increased pressure oscillations in the combustion chamber which in turn cause vibration in the combustor components. This can lead to increased wear and damage to components and reduced component life. If dynamics reach alarm/action levels deloads or trips will occur.
- Reduced reactivity can result in the flames of some burners lifting resulting in trips due to unacceptable exhaust temperature distributions.
- Ignition of low WI fuels is more difficult due to the reduced reactivity and this can lead to starting problems.

Workgroup offered no questions, however, PY advised he has the same feedback on those types of issues and JC advised he had nothing further to add.

AR clarified that some of the information from the initial representation can go into the Workgroup Report including costs to organisations, wider concerns, risk of blackouts if number of generators trip at the same time.

PH confirmed the modification as proposed at present is not the solution that National Grid are currently looking at. **Closed**

Action 0203: Neptune Energy/Centrica (TB) to provide a proposed solution to cover the outage period.

Update: TB confirmed that Neptune Energy are looking at other means to avoid this impact. The proposed solution means that sub-GS(M)R (Gas Safety (Management) Regulations Network) (Normal Conditions) gas would not enter the GM(S)R governed network.

TB advised that Neptune Energy are looking at a solution to facilitate entry of the gas into the network by blending with other streams, meaning that GS(M)R compliant gas would exit the National Grid terminal. It was confirmed that the proposed solution would still require an amendment to the Network Entry Agreement (NEA). **Carried forward**

Action 0204: Joint Office (AR) and National Grid (PH) to clarify the nature & extent of conversations between the affected parties for inclusion within the Workgroup Report.

Update: AR and PH confirmed this will start this once amended Modification is received. **Carried forward**

Action 0205: National Grid (PH) to contact IUK and BBL, from a commercial Stakeholder perspective, regarding the potential impacts of the proposed change at the Bacton Terminal.

Update: PH confirmed that discussions are ongoing. Carried forward

8.0 Next Steps

AR confirmed that Workgroup will await a revised Modification to be submitted which will set out the new solution and how the highlighted issue would be mitigated.

9.0 Any Other Business

None.

10.0 Diary Planning

 $\textit{Further details of planned meetings are available at:} \ \underline{\textbf{www.gasgovernance.co.uk/events-calendar/month}}$

Workgroup meetings will take place as follows:

Time / Date	Venue	Workgroup Programme
10:00 Thursday 02 April 2020	Radcliffe House, Blenheim Court, Warwick Road, Solihull B91 2AA	 Detail planned agenda items. Amended Modification Consideration of Business Rules Review of Impacts and Costs Review of Relevant Objectives Consideration of Wider Industry Impacts Development of Workgroup Report

Action Table (as at 06 February 2020)

Action Ref	Meeting Date	Minute Ref	Action	Owner	Status Update
1203	05/12/19	1.3.4	Neptune Energy/Centrica (TB) to contact Ofgem to ascertain if there was a requirement for them to undertake an Impact Assessment.	Neptune Energy/Centrica (TB)	Carried forward (Transferred from TXWG)
0201	06/02/20	1.0	National Grid (PH) to investigate the FWACV impacts on this proposed change	National Grid (PH)	Closed
0202	06/02/20	1.0	All to provide feedback in relation to the commercial implications of flow weighted averages and the associated impacts of this proposed change.	ALL	Closed
0203	06/02/20	1.0	Neptune Energy/Centrica (TB) to provide a proposed solution to cover the outage period.	Neptune Energy/Centrica (TB)	Carried Forward
0204	06/02/20	2.1.2	Joint Office (AR) and National Grid (PH) to clarify the nature & extent of conversations between the affected parties for inclusion within the Workgroup Report.	Joint Office (AR) & National Grid (PH)	Carried Forward
0205	06/02/20	2.1.2	National Grid (PH) to contact IUK and BBL, from a commercial Stakeholder perspective, regarding the potential impacts of the proposed change at the Bacton Terminal.	National Grid (PH)	Carried Forward