

## UNC Mods 498/502 NG NTS actions update



Transmission Workgroup  
4<sup>th</sup> September 2014  
National Grid NTS  
Ritchard Hewitt / Dennis Rachwal

## Action 805 – Comparison of CO<sub>2</sub> limits

---

### Ofgem open letter 20<sup>th</sup> Sept 2004 Establishing a Gas Quality Review Group

<https://www.ofgem.gov.uk/publications-and-updates/establishing-gas-quality-review-group-gas-quality-open-letter>

Annex 3 Gas Quality Specifications at the individual sub-terminals

This included CO<sub>2</sub> limits in “legacy agreements”:-

- 4% at Burton Point, St Fergus Mobil & St Fergus Total
- 2.9% at Teesside BP and PX
- 2% at all others

### UNC Mod 049 implemented 23<sup>rd</sup> December 2005

Allowed the inert gas limits at sub-terminals to be revised following agreement between the relevant Delivery Facility Operator (DFO) and the Transporter without the need to raise a further modification proposal. Specifically, the code modification **enabled the limit for carbon dioxide to be increased from 2.0% to 2.5%** and the prevailing limits for nitrogen to be removed.

No other UNC Modifications since this date have sought to change CO<sub>2</sub> limits

## Proportion supplied to GB with higher CO<sub>2</sub> limit

### Volume of GB gas supplied in Gas Year 2011 and 2012 by terminal

#### higher CO<sub>2</sub> limit

**Teesside supplied ~6%**

**St. Fergus supplied ~24%**

**Burton Point supplied ~1%**

#### Lower CO<sub>2</sub> limit

**Others ~70%**

[http://www2.nationalgrid.com/uk/industry-information/future-of-energy/Winter and Summer Outlook/Reports](http://www2.nationalgrid.com/uk/industry-information/future-of-energy/Winter%20and%20Summer%20Outlook/Reports)

|                     | Winter      |            |             |            | Summer    |             |           |             | Whole Gas Year |             |             |             |
|---------------------|-------------|------------|-------------|------------|-----------|-------------|-----------|-------------|----------------|-------------|-------------|-------------|
|                     | 2011/12     |            | 2012/13     |            | 2012      |             | 2013      |             | 2011/12        |             | 2012/13     |             |
|                     | bcm         | %          | bcm         | %          | bcm       | %           | bcm       | %           | bcm            | %           | bcm         | %           |
| Bacton              | 12          | 22%        | 13          | 22%        | 6         | 18%         | 7         | 19%         | 18             | 21%         | 20          | 23%         |
| Barrow              | 2           | 3%         | 1           | 3%         | 1         | 3%          | 1         | 3%          | 3              | 3%          | 2           | 2%          |
| Burton P.           | 0.2         | 0%         | 0.5         | 0%         | 0         | 0%          | 0         | 0%          | 0.2            | 0%          | 0.5         | 1%          |
| Easington inc Rough | 14          | 27%        | 17          | 27%        | 7         | 21%         | 7         | 19%         | 21             | 24%         | 24          | 27%         |
| Isle of Grain       | 3           | 5%         | 1           | 5%         | 1         | 3%          | 1         | 3%          | 4              | 5%          | 2           | 2%          |
| Milford H.          | 5           | 10%        | 3           | 10%        | 6         | 18%         | 5         | 14%         | 11             | 13%         | 8           | 9%          |
| St Fergus           | 11          | 21%        | 12          | 21%        | 8         | 24%         | 10        | 28%         | 19             | 22%         | 22          | 25%         |
| Teesside            | 3           | 5%         | 2           | 5%         | 2         | 6%          | 2         | 6%          | 5              | 6%          | 4           | 5%          |
| Theddlethorpe       | 2           | 3%         | 1           | 3%         | 2         | 6%          | 2         | 6%          | 4              | 5%          | 3           | 3%          |
| MRS & SRS           | 1           | 2%         | 2           | 2%         | 1         | 3%          | 1         | 3%          | 2              | 2%          | 3           | 3%          |
| <b>Total</b>        | <b>53.2</b> | <b>98%</b> | <b>52.5</b> | <b>98%</b> | <b>34</b> | <b>100%</b> | <b>36</b> | <b>100%</b> | <b>87.2</b>    | <b>100%</b> | <b>88.5</b> | <b>100%</b> |

## Action 605 (b) Impact on IPs

---

- IUK (August meeting) “highly unlikely to experience any impact”
- GasLink
  - Mainly supplied by gas from St Fergus
  - If Teesside limit increased to 4% it will not increase the upper CO<sub>2</sub> limit of what expected at Moffatt
  - Modelled scenarios do not show Teesside gas reaching Moffatt, but physically this could happen

## Action 605 (a) Network flow impacts

---

**“Understand the network flow impacts in relating to pressure/volumes/CV shrinkage”**

- **NG NTS has written to DNs: SGN e-mail is included in July minutes. Action on NG NTS closed**
- **NTS assessment:**
  - **BP/PX indicated CV reduction of ~“1.15%”**
  - **Pressure/volume impact - not considered to be material**
  - **CV Shrinkage – risk of FWACV capping – provisional view – no significant increase in risk**

## Action 802 Variability Data

---

- **NG NTS has gas quality alarms that receive within day updates**
- **NG NTS does not currently have capability to routinely publish such data**
- **Aim to provide an illustrative historic example of data shortly**

## Action 806 – Comparison Info on Gas Quality

---

**“Gas Quality at Teesside....information on the gas quality at both entry and exit for comparison and assessment of effects”**

- **Appears to be duplication of Actions 601 (a) (ii) and Action 601 (b)**
- **601 (b) was closed in August**
- **601 (a) (ii) No substantive update this month**
- **Propose Action 806 is duplication so close it**