

**Gas  
Transmission**

# Modification 0714 Update

**Amendment to Network Entry  
Provision at Bacton Perenco Terminal**

**Transmission Workgroup  
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# Mod 0714: Recap

**Mod 0714 was raised in January 2020**

**<https://www.gasgovernance.co.uk/sites/default/files/ggf/book/2020-06/Final%20Modification%20Report%200714%20v2.0.pdf>**

**It is an ‘enabling’ Modification that seeks consent for National Grid and Perenco to amend the lower limit for Wobbe Index at the Perenco system entry point from the GS(M)R lower limit of 47.2 MJ/m<sup>3</sup> to 46.5 MJ/m<sup>3</sup> for a temporary period**

**Proposes that National Grid would accept delivery of such non-GS(M)R compliant gas into its terminal at Bacton, provided that a compliant blend could be achieved within its terminal by blending with other gas delivered at Bacton**

# **Mod 0714: Current Status**

**Mod 0714 was consulted upon in May-June 2020**

**Consultation responses and subsequently Panel supported implementation**

**The Modification envisaged that further work was required prior to implementation:**

- **Development of operational controls at Bacton to ensure that the risk of off-spec gas exiting Bacton terminal is not increased**
- **Amendment of the National Grid GS(M)R Safety Case**

**National Grid and Ofgem agreed that a decision on Mod 0714 should follow after this further work had been completed**

**National Grid has worked with the Bacton UKCS terminal operators and Neptune Energy to develop engineering solutions which are now agreed in principle and are described on the next two slides**

# Perenco Control Solution

Flow-rate data from the Shell terminal is to be transmitted via National Grid's control system to the Perenco control system

If Shell deliveries approach a level which would be too low to deliver a GS(M)R compliant blended gas, the Perenco system would automatically curtail the off-spec Cygnus gas

The purpose is to stop Perenco delivering any gas into the National Grid terminal below the GS(M)R lower limit of  $47.2\text{MJ/m}^3$  before the supply of blend gas from Shell is no longer adequate / available

# National Grid Monitoring Solution

National Grid's control system at Bacton is to be configured such that it monitors whether a compliant blend of Shell and Perenco gas is present within the terminal

The National Grid control system shall continually calculate a flow-weighted Wobbe Index from the prevailing Shell and Perenco flow-rates and Wobbe Indexes

Alarm functionality and appropriate tolerances are to be applied to enable Bacton terminal to curtail Perenco flows if the calculated flow-weighted Wobbe Index approaches non-compliance

# Planned Next Steps

**Technical review and sign-off of the proposed control solutions within National Grid**

**Submission of amendments to the National Grid GS(M)R Safety Case to HSE**

**Ofgem decision on Mod 0714**

**Execution of amendment to Network Entry Provisions between National Grid and Perenco**

**Technical implementation and testing activities between National Grid and Perenco**

**Temporary blending arrangement operational late May 2021**