

# Modification 0581S: Amending the Oxygen Content Limit Specified in the NEAs at Grain LNG

Workgroup Meeting

7<sup>th</sup> July 2016

## Action 0602

---

- National Grid NTS to carry out an assessment to establish the farthest points where gas from Grain LNG with increased oxygen levels (low, medium and high flows) might reach
  - i.e. a 'heat map' to show how this propagates through the NTS network

# Introduction

---

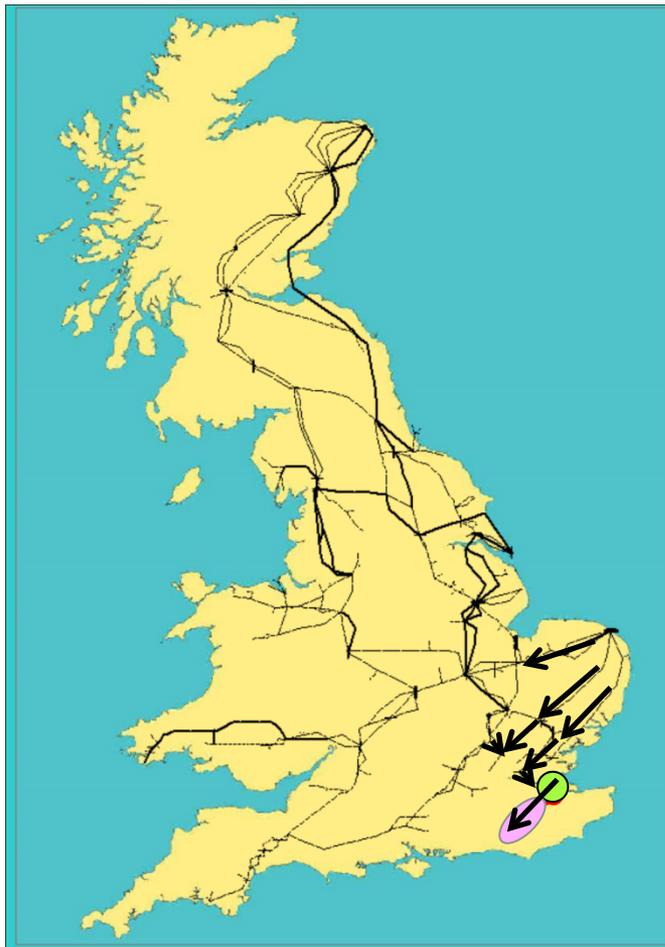
- National Grid NTS performs a two-part process each year to gauge the long term (10 year) adequacy, utilisation and development needs of the NTS
  - Scenario Definition
    - Consultation with industry stakeholders via the Future Energy Scenarios (FES) process to help define scenarios of future flow into and out of the NTS
  - Flow Modelling
    - Modelling of potential flow patterns which may arise from these future scenarios and their impact on NTS network development, the results of which are summarised in the Gas Ten Year Statement (GTYS)

## Analysis

---

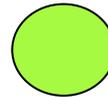
- The results of the 2015/16 modelling cycle were examined in order to determine the likely future penetration of Grain gas into the NTS
- The degree of penetration depends on a number of factors, particularly the seasonal and geographic pattern of supplies and demands

# Analysis



**HIGH DEMAND**  
(High 1-in-20 Winter)

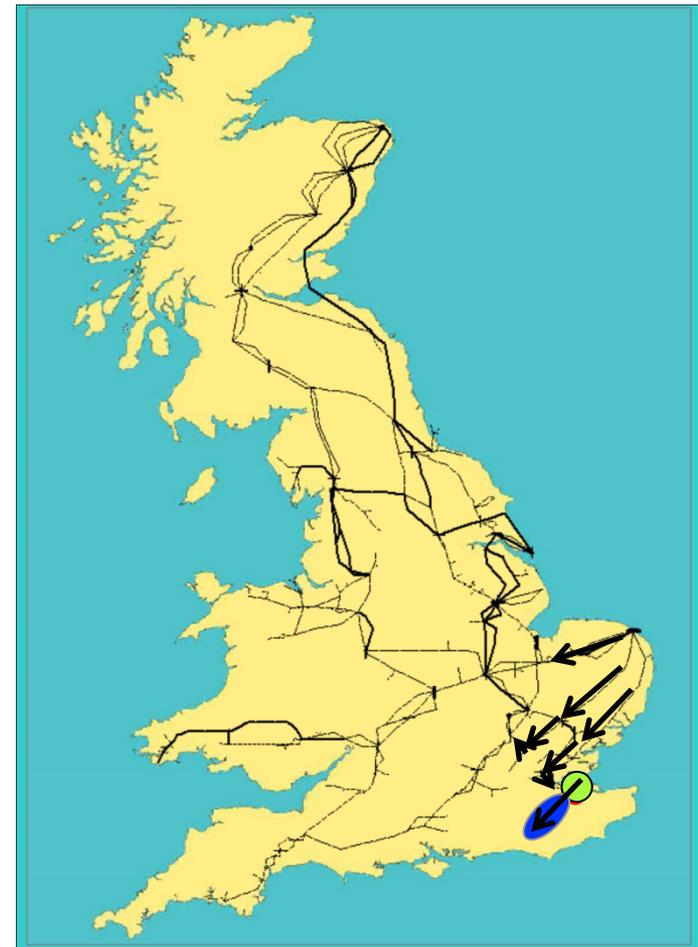
>75%  
Isle of Grain  
Gas



50% to 75%  
Isle of Grain  
Gas



25% to 50%  
Isle of Grain  
Gas



**LOW DEMAND**  
(Typical Summer Day)

## Conclusions

---

- Based on the latest available FES scenarios, we do not currently expect Grain LNG gas to either:
  - Penetrate beyond the south-east extremity of the NTS; or
  - Reach a UK storage facility connected to the NTS
- Other ASEPs are expected to meet demand requirements elsewhere on the NTS