

# April Maintenance & Capacity Expansion Programme

Summer 2010

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# Introduction

This final version of the Maintenance Programme has been produced by National Grid NTS to satisfy its obligations under Section L: 1.5 of the UNC – Transportation Principal Document (TPD) and Section G of the UNC - Offtake Arrangements Document (OAD).

In accordance with Section L: 3.2 “Content of Programme” the document covers work scheduled at compressor stations and on National Transmission System (NTS) pipelines impacting NTS exit points and ASEPs, providing an indication of the revised ASEP capability.

Notification of affected NTS System Exit points will be through Maintenance Day notices sent directly to affected parties.

This document only includes maintenance activities on the NTS, which are to be undertaken by National Grid NTS, as defined in Section L: 1.1.4 of the UNC (TPD) and UNC (OAD) Section G 1.2

It does not include maintenance carried out upstream of the NTS by Delivery Facility Operators (DFO's) / Producers or downstream of the NTS by the Distribution Networks.

Any comments should be sent to Jacky Carroll, Physical Operations Manager, National Grid, Gas Operations, National Grid House, Gallows Hill, Warwick, CV34 6DA (Tel: 01926 653235).

# Maintenance Work by Month

April

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 3 Great Wilbraham – Cambridge	April	Pipeline shutdown

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 28 Felindre – Three Cocks	April	On line inspection
Feeder 28 Three Cocks – Tirley	April	On line inspection
Feeder 13 Cowpen Bewley – Yafforth	April – May	On line inspection
Feeder 13 Yafforth – Towton	April – May	On line inspection

May

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement
Kirriemuir	May	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
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<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 12 Aberdeen – Kirriemuir	May – June	On line inspection
Feeder 18 Tilbury – Matching Green	May	On line inspection
Feeder 9 Barton Stacey – Lockerley	May	On line inspection
Feeder 13 Cowpen Bewley – Yafforth	April – May	On line inspection
Feeder 13 Yafforth – Towton	April – May	On line inspection
Feeder 7 Micklemersh to Braishfield	May	On line inspection

## June

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement
Wormington	June	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 P'boro MJ – P'boro Tee	June – July	A1073 diversion

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 18 Isle of Grain – Gravesend	June	On line inspection
Feeder 12 Aberdeen – Kirriemuir	May – June	On line inspection
Feeder 4 Helsby – Shell Star	June	On line inspection
Feeder 7 Chalgrove – Didcot	June	On line inspection

## July

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement
Aberdeen	July	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 P'boro MJ – P'boro Tee	June – July	A1073 diversion
Feeder 4 P'boro MJ – Crowland	July	A1073 diversion
Feeder 5 Gravesend – Farningham	July – August	Pipeline shutdown – Insulation Joint replacement

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 10 Bathgate – Penicuik	July	On line inspection
Feeder 6 Teesside – Cowpen Bewley	June – July	On line inspection
Feeder 7 Cawood – Susworth	July	On line inspection

## August

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 5 Gravesend – Farningham	July – August	Pipeline shutdown – Insulation Joint replacement
Feeder 3 Bacton – Swanton Abbot	August	Pipeline shutdown – Nitrogen sleeve removal

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 Wisbech Nene East – Duddington	August	On line inspection
Feeder 7 Old Warden – Chalgrove	August	On line inspection

## September

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Hatton	April – September	Control system replacement

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
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<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 7 Bishop Auckland – Pannal	September	On line inspection
Feeder 21 Mawdesley – Warburton	September	On line inspection
Feeder 10 & 11 Aberdeen – Kirriemuir	September	On line inspection
Feeder 7 Barton Stacey – Mappowder	September	On line inspection

# ASEP Capability Table

The included table shows indicative capability for each ASEP including the effect of the summer 2010 Maintenance Programme. The volumes are displayed in monthly tranches and are based on appropriate Seasonal Normal Conditions.

In generating the ASEP capabilities, no account has been taken of any supply side (DFO) maintenance outages.

The value represents the ASEP capacity for each month, based on Seasonal Normal Demand conditions and for the period where scheduled maintenance has most impact on capability. The figure has been generated by National Grid and assumes the particular ASEP is favoured at the expense of other terminals.

Where no volume has been given, this indicates that the maintenance scheduled has no adverse effects on the ASEP capability.

The capability volumes shown for the individual ASEP's are indicative only.

On any given day, the amount of capability that may be available at any ASEP will depend upon the level and distribution of the demand and the level of supplies at other terminals. In cases where scheduled maintenance has an adverse effect on an ASEP's capability, National Grid may be able to make additional capability available.

	April	May	June	July	August	September
St Fergus	No impact	118 (1298)	No impact	115 (1265)	No impact	No impact
Teesside	No impact	No impact	No impact	No impact	No impact	No impact
Barrow	No impact	No impact	No impact	No impact	No impact	No impact
Easington	116 (1276)	111 (1221)	106 (1166)	106 (1166)	98 (1078)	111 (1221)
Theddlethorpe	56 (616)	54 (594)	52 (572)	52 (572)	52 (572)	54 (594)
Bacton	93 (1023)	No impact	91 (1001)	91 (1001)	92 (1012)	No impact
Isle of Grain	No impact	No impact	29 (319)	No impact	No impact	No impact
Milford Haven	48 (528)	55 (605)	45 (495)	No impact	No impact	No impact

Values in Mcm & (GWH)

(Conversion from MCM to GWH using CV of 39.6 MJ/m<sup>3</sup>)

# Maintenance Affected Exit Points

Some Exit Points may have supply disruptions whilst NTS maintenance is being completed. Where possible, this is co-ordinated with the end user to avoid supply disruption.

Shippers, End-Users and Distribution Networks will be advised in accordance with the Uniform Network Code timescales.

Maintenance day(s) notifications will be issued to all relevant parties for the work detailed in this Final April 2009 Maintenance plan.

Should any changes or additions to the requested Maintenance days be required, all relevant parties will be notified as per the timescales detailed in the Uniform Network Code.