

# April Maintenance & Capacity Expansion Programme

Summer 2011

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# Introduction

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

This document provides information on NTS maintenance which has an impact on entry or exit capacity

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

National Grid works closely with its customers to ensure minimum impact to supply and endeavours to meet its firm exit obligations and 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.

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# Maintenance Work by Month

April

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Aberdeen	April	Routine maintenance
Kirriemuir	April	Routine maintenance
Hatton	April – August	Control system replacement
Wisbech	April	Routine maintenance
Diss	April	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 Ross to Llanvetherine	April – May	Peterstow rationalisation
Feeder 4 Warburton to Partington	April – May	Pipeline shutdown
Feeder 21 Mawdesley to Warburton	April – May	Pipeline shutdown

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 20 – Wormington to Sapperton	April	On line inspection
Feeder 14 – Alrewas to Churchover	April	On line inspection
Feeder 20 – Barrington to Kenn South	April – May	On line inspection
Feeder 10 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 11 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 12 – Kirriemuir to Bathgate	April – May	On line inspection

## May

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Avonbridge (West)	May	Routine maintenance
Bishop Auckland	May	Routine maintenance
Carnforth	May	Routine maintenance
Hatton	April – August	Control system replacement
Alrewas	May – June	Routine maintenance
Wormington	May	Routine maintenance
Cambridge	May – June	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 Ross to Llanvetherine	April – May	Peterstow rationalisation
Feeder 2 Treaddow to Llanvetherine	May – June	Peterstow rationalisation
Feeder 4 Warburton to Partington	April – May	Pipeline shutdown
Feeder 21 Mawdesley to Warburton	April – May	Pipeline shutdown

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 20 – Barrington to Kenn South	April – May	On line inspection
Feeder 10 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 11 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 12 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 7 – Nuffield to Winkfield	May	On line inspection
Feeder 11 – Bathgate to Longtown	May	On line inspection
Feeder 12 – Bathgate to Longtown	May	On line inspection

## June

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Avonbridge (West)	June	Routine maintenance
Moffat	June	Routine maintenance
Hatton	April – August	Control system replacement
Alrewas	May – June	Routine maintenance
Aylesbury	June	Routine maintenance
Chelmsford	June – July	Routine maintenance
Cambridge	May – June	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 2 Treaddow to Llanvetherine	May – June	Peterstow rationalisation
Feeder 21 – Elworth to Audley	June	Pipeline shutdown
Feeder 13 – Cowpen Bewley to Yafforth	June	Pipeline shutdown
Feeder 9 – Barton Stacey to Lockerley	June – July	Pipeline shutdown
Feeder 18 – Matching Green to Tilbury Thames North	June	Pressure restriction

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 7 – Chalgrove to Barton Stacey	June – July	On line inspection
Feeder 7 – Mappowder to Ilchester	June	On line inspection
Feeder 11 – Longtown to Grayrigg	June	On line inspection
Feeder 16 – Pennington to Sellafield	June	On line inspection
Feeder 13 Aberdeen to Arbroath	June – July	On line inspection

## July

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Warrington	July – August	Routine maintenance
Hatton	April – August	Control system replacement
Chelmsford	June – July	Routine maintenance
Peterborough	July	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 9 – Barton Stacey to Lockerley	June – July	Pipeline shutdown
Feeder 2 – Churchover to Duddington	July	Pipeline shutdown
Feeder 21 – Elworth to Birch Heath	July	Pipeline shutdown
Feeder 13 – Yafforth to Towton	July	Pipeline shutdown

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 7 – Chalgrove to Barton Stacey	June – July	On line inspection
Feeder 13 – Aberdeen to Arbroath	June – July	On line inspection
Feeder 13 – Simprim to Corbridge	July	On line inspection
Feeder 13 – Haddington to Simprim	July – August	On line inspection

## August

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Wooler	August	Routine maintenance
Warrington	July – August	Routine maintenance
Hatton	April – August	Control system replacement
Churchover	August	Routine maintenance
Huntingdon	August	Routine maintenance
Lockerley	August	Routine maintenance
Felindre	August	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 10 – Falahil to Hume	August	Pipeline diversion
Feeder 3 – Bacton to Roudham Heath	August	Pipeline shutdown
Feeder 29 – Easington to Asselby	August	Pipeline shutdown
Feeder 29 – Asselby to Pannal	August	Pipeline shutdown
Feeder 7 – Barton Stacey to Mappowder	August	Pressure restriction

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 13 – Haddington to Simprim	July – August	On line inspection
Feeder 2 – Churchover to Wormington	August	On line inspection
Feeder 14 – Wormington to Pucklechurch	August	On line inspection
Feeder 14 – Pucklechurch to Seabank	August – September	On line inspection
Feeder 13 – Corbridge to Bishop Auckland	August – September	On line inspection
Feeder 9 – Silk Willoughby to Staythorpe	August	On Line Inspection

## September

<b>Compressor Station Outages</b>	<b>Dates</b>	<b>Maintenance Description</b>
Nether Kellet	September	Routine maintenance
Kings Lynn	September	Routine maintenance

<b>Pipeline Work</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 8 – Hatton to Theddlethorpe	September	Pipeline shutdown
Feeder 2 – Bacton to Kings Lynn	September	Pipeline shutdown
Feeder 13 – St Fergus to Aberdeen	September	Pipeline shutdown
Feeder 7 – Cawood to Susworth Trent North	September	Pipeline shutdown

<b>On Line Inspections</b>	<b>Dates</b>	<b>Maintenance Description</b>
Feeder 14 – Pucklechurch to Seabank	August – September	On line inspection
Feeder 13 – Corbridge to Bishop Auckland	August – September	On line inspection
Feeder 3 – Great Wilbraham to Whitwell	September	On Line Inspection
Feeder 12 – Longtown to Bishop Auckland	September	On Line Inspection
Feeder 24 – Easington to Paull	September	On Line Inspection

# ASEP Capability Table

The included table shows indicative capability for each ASEP including the effect of the summer 2011 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, but do represent a consistent operational view.

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
<b>St Fergus</b>	119 (1309)	115 (1265)	108 (1188)	No impact	No impact	102 (1122)
<b>Teesside</b>	No impact	No impact	38 (418)	No impact	No impact	No impact
<b>Barrow</b>	No impact	No impact	No impact	No impact	No impact	No impact
<b>Easington</b>	122 (1342)	121 (1331)	120 (1320)	119 (1309)	110 (1210)	122 (1342)
<b>Theddlethorpe</b>	55 (605)	54 (594)	52 (572)	52 (572)	51 (561)	45 (495)
<b>Bacton</b>	No impact	No impact	No impact	No impact	111 (1221)	97 (1067)
<b>Isle of Grain</b>	No impact	No impact	32 (352)	No impact	No impact	No impact
<b>Milford Haven</b>	65 (715)	52 (572)	No impact	50 (550)	58 (638)	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 directly to all affected relevant parties for the work detailed in this Draft April 2011 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 UNC.