

April Maintenance & Capacity Expansion Programme

Summer 2011

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Introduction

This final 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 National Transmission System (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

Compressor Station Outages	Dates	Maintenance Description
Kirriemuir	April	Routine maintenance
Hatton	April – August	Control system replacement
Wisbech	April	Routine maintenance
Diss	April	Routine maintenance

Pipeline Work	Dates	Maintenance Description
Feeder 12 – Aberdeen to Kirriemuir	April	Pipeline shutdown
Feeder 4 – Warburton to Partington	April – May	Pipeline shutdown
Feeder 21 – Mawdesley to Warburton	April – May	Pipeline shutdown

On Line Inspections	Dates	Maintenance Description
Feeder 20 – Wormington to Sapperton	April	On line inspection
Feeder 14 – Alrewas to Churchover	April	On line inspection
Feeder 10 – Kirriemuir to Bathgate	April	On line inspection
Feeder 11 – Kirriemuir to Bathgate	April – May	On line inspection
Feeder 12 – Kirriemuir to Bathgate	April – May	On line inspection

May

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

Pipeline Work	Dates	Maintenance Description
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

On Line Inspections	Dates	Maintenance Description
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
Feeder 11 – Longtown to Grayrigg	May – June	On line inspection

June

Compressor Station Outages	Dates	Maintenance Description
Aberdeen	June	Routine maintenance
Avonbridge (East)	May – June	Routine maintenance
Moffat	June – July	Routine maintenance
Hatton	April – August	Control system replacement
Alrewas	June – July	Routine maintenance
Churchover	June	Routine maintenance
Aylesbury	June – July	Routine maintenance
Chelmsford	June – July	Routine maintenance
Cambridge	May – June	Routine maintenance

Pipeline Work	Dates	Maintenance Description
Feeder 2 – Treaddow to Llanvetherine	May – June	Peterstow rationalisation
Feeder 2 – Ross on Wye to Llanvetherine	June	Peterstow rationalisation
Feeder 2 – Churchover to Duddington	June – July	Pipeline shutdown
Feeder 6 – Teesside to Cowpen Bewley	June	Pressure restriction
Feeder 21 – Elworth to Audley	June	Pipeline shutdown
Feeder 9 – Barton Stacey to Lockerley	June – July	Pipeline shutdown
Feeder 5 – Roxwell to Luxborough Lane	June	Pipeline shutdown

On Line Inspections	Dates	Maintenance Description
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	May – June	On line inspection
Feeder 16 – Pennington to Sellafeld	June	On line inspection
Feeder 13 – Aberdeen to Arbroath	June – July	On line inspection

July

Compressor Station Outages	Dates	Maintenance Description
Moffat	June – July	Routine maintenance
Alrewas	June – July	Routine maintenance
Aylesbury	June – July	Routine maintenance
Warrington	July – September	Routine maintenance
Huntingdon	July – August	Routine maintenance
Hatton	April – August	Control system replacement
Chelmsford	June – July	Routine maintenance

Pipeline Work	Dates	Maintenance Description
Feeder 9 – Barton Stacey to Lockerley	June – July	Pipeline shutdown
Feeder 2 – Churchover to Duddington	June – July	Pipeline shutdown
Feeder 2 – Duddington to Wisbech Nene East	July	Pipeline shutdown
Feeder 21 – Elworth to Birch Heath	July	Pipeline shutdown
Feeder 13 – Yafforth to Towton	July	Pipeline shutdown

On Line Inspections	Dates	Maintenance Description
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

Compressor Station Outages	Dates	Maintenance Description
Wooler	August	Routine maintenance
Warrington	July – September	Routine maintenance
Hatton	April – August	Control system replacement
Huntingdon	July – August	Routine maintenance
Peterborough	August - September	Routine maintenance
Lockerley	August	Routine maintenance
Felindre	August	Routine maintenance

Pipeline Work	Dates	Maintenance Description
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
Feeder 18 – Tilbury Thames North to Horndon	August - September	Pipeline shutdown
Feeder 13 – St Fergus to Aberdeen	August – September	Pipeline shutdown
Feeder 8 – Hatton to Theddlethorpe	August – September	Pipeline shutdown

On Line Inspections	Dates	Maintenance Description
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 24 – Easington to Paull	August	On Line Inspection
Feeder 9 – Silk Willoughby to Staythorpe	August	On Line Inspection

September

Compressor Station Outages	Dates	Maintenance Description
Peterborough	August - September	Routine maintenance
Warrington	July – September	Routine maintenance
Nether Kellet	September	Routine maintenance
Kings Lynn	September	Routine maintenance

Pipeline Work	Dates	Maintenance Description
Feeder 18 – Tilbury Thames North to Horndon	August - September	Pipeline shutdown
Feeder 8 – Hatton to Theddlethorpe	August – September	Pipeline shutdown
Feeder 2 – Bacton to Kings Lynn	September	Pipeline shutdown
Feeder 13 – St Fergus to Aberdeen	August – September	Pipeline shutdown
Feeder 7 – Cawood to Susworth Trent North	September	Pipeline shutdown

On Line Inspections	Dates	Maintenance Description
Feeder 14 – Pucklechurch to Seabank	August – September	On line inspection
Feeder 13 – Corbridge to Bishop Auckland	September	On line inspection
Feeder 3 – Great Wilbraham to Whitwell	September	On Line Inspection
Feeder 12 – Longtown to Bishop Auckland	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
St Fergus	112 (1232)	No impact	97 (1067)	No impact	No impact	116 (1276)
Teesside	No impact	No impact	12 (132)	No impact	No impact	No impact
Barrow	No impact	No impact	No impact	No impact	No impact	No impact
Easington	131 (1441)	130 (1430)	129 (1419)	128 (1408)	125 (1375)	130 (1430)
Theddlethorpe	52 (572)	54 (594)	55 (605)	55 (605)	35 (385)	No impact
Bacton	109 (1199)	No impact	118 (1298)	118 (1298)	111 (1221)	111 (1221)
Isle of Grain	No impact	No impact	No impact	No impact	37 (407)	No impact
Milford Haven	No impact	54 (594)	61 (671)	53 (583)	66 (726)	65 (715)

Values in MSCM & (GWh)

(Conversion from MSCM to GWh using CV of 39.6 MJ/m³)

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 Final 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.