

Maintenance & Capacity Expansion Programme

April 2013 - Oct 2013

Final Version 1.3

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Introduction

National Grid has produced a Final version of the gas National Transmission System (NTS) Maintenance programme to provide customers with information on NTS Maintenance that has an impact on entry or exit capacity.

This 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.

We work closely with our customers to ensure minimum impact to supply and endeavour to meet our firm exit obligations. Where NTS System Exit Points are affected, we will issue Maintenance Day notices to our customers at least 30 days in advance of the scheduled Maintenance work.

This document only includes maintenance activities on the NTS, which are to be undertaken by National Grid NTS. 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.

If you have any queries or questions regarding the information contained within this document, please contact Tony Hanaphy, National Grid, Gas Operations, National Grid House, Gallows Hill, Warwick, CV34 6DA (Tel: 01926 655057).

We would welcome any feedback from you in relation to the information provided, if you would like to provide feedback please contact us via email on Box.gasops.ntsmaint@nationalgrid.com

Maintenance Work by Month

April 2013

Compressor Station Outages	Dates	Maintenance Description
Warrington	Complete	Non-Return Valve Replacement
Huntingdon	Underway	Non-Return Valve Modifications

Pipeline Work	Dates	Maintenance Description
Feeder 4 - Warburton to Partington	Complete	Pipeline Shutdown
Feeder 11 – Lockerbie to Waterbeck	Now 2014	Pipeline Shutdown
Feeder 4 - Warburton to Holmes Chapel	Complete	Pipeline Shutdown
Feeder 13 – Ovington to Lanchester	Complete	Pressure Restriction
Feeder 13 – Chillingham to Guyzance	Complete	Pressure Restriction
Feeder 10 – Aberdeen to Muirskie	Complete	Pipeline Shutdown
Feeder – 2 Frankton to Churchover Comp Tee	Complete	Pipeline Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 16 – Barrow to Lupton	Complete	In Line Inspection
Feeder 18 – Peterborough to Huntingdon	Awaiting new dates	In Line Inspection
Feeder 13 – St Fergus to Aberdeen	Complete	In Line Inspection
Feeder 4 – Blaby to Alrewas	Complete	In Line Inspection
Feeder 8 – Theddlethorpe to Hatton	Complete	In Line Inspection

May 2013

Compressor Station Outages	Dates	Maintenance Description
Aberdeen	Complete	Routine Maintenance
Moffat	Complete	Routine Maintenance
Warrington	Complete	Non-Return Valve Replacement
Carnforth	Complete	Control system and NRV Replacement
Hatton	Complete	Exhaust Stack Replacement
Cambridge	Complete	Non-Return Valve Replacement
Huntingdon	Complete	Non-Return Valve Modifications

Pipeline Work	Dates	Maintenance Description
Feeder 4 - Warburton to Partington	Complete	Pipeline Shutdown
Feeder 4 - Warburton to Holmes Chapel	Complete	Pipeline Shutdown
Feeder 7 – Tydd to Huntingdon	Complete	Pressure Restriction
Feeder 12 – Tow Law to Crook	Now 2014	Pipeline Shutdown
Feeder 13 – Lonformarcus to Polwarth	Complete	Pressure Restriction
Feeder 13 – Ovington to Lanchester	Complete	Pressure Restriction
Feeder 13 – Chillingham to Guyzance	Complete	Pressure Restriction

In Line Inspections	Dates	Maintenance Description
Feeder 8 – Theddlethorpe to Hatton	Complete	In Line Inspection
Feeder 6 – Elton to Pickering	Complete	In Line Inspection
Feeder 15 – Wheelock to Warmingham	Complete	In Line Inspection

June 2013

Compressor Station Outages	Dates	Maintenance Description
Aberdeen	Complete	Routine Maintenance
Kirriemuir	Complete	Routine Maintenance
Avonbridge East	Complete	Routine Maintenance
Carnforth	Complete	Control system and Non-Return Valve Replacement
Warrington	Complete	Non-Return Valve Replacement
Hatton	Complete	Exhaust Stack Replacement
Cambridge	Complete	Non-Return Valve Replacement
Lockerley	Complete	Routine Maintenance
Huntingdon	Complete	Non-Return Valve Modifications

Pipeline Work	Dates	Maintenance Description
Feeder 12 – Tow Law to Crook	Now 2014	Pipeline Shutdown
Feeder 12 – Longtown to Tow Law	Complete	Pipeline Shutdown
Feeder 14 – Pucklechurch to Severnside	Complete	Pressure Restriction / Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 4 – Shocklach to Weston Point	Complete	In Line Inspection
Feeder 2 – Bacton to Wisbech Nene West	Awaiting new dates	In Line Inspection
Feeder 4 – Bacton to Wisbech	Now 2014	In Line Inspection
Feeder 15 – Wheelock - Warmingham	Complete	In Line Inspection

July 2013

Compressor Station Outages	Dates	Maintenance Description
Avonbridge East	Complete	Routine Maintenance
Avonbridge West	Complete	Routine Maintenance
Carnforth	Complete	Control system and Non-Return Valve Replacement
Churchover	Complete	Routine Maintenance
Nether Kellet	Complete	Non-Return Valve Replacement
Peterborough	Complete	Control System
Lockerley	Complete	Routine Maintenance
Hatton	Complete	Exhaust Stack Replacement
Kirriemuir	Complete	Routine Maintenance

Pipeline Work	Dates	Maintenance Description
Feeder 12 – Longtown to Tow Law	Complete	Pipeline Shutdown
Feeder 22 – Hatton to Braceborough	Complete	Pressure Restriction
Feeder 22 – Silk Willoughby to Aslackby	Complete	Pipeline Shutdown
Feeder 10 – Thrunton to Saltwick Isolation	Complete	Pipeline Shutdown
Feeder 3 – Bacton to Felthorpe	Complete	Pipeline Shutdown
Feeder 14 – Sapperton to Easton Grey	Complete	Pipeline Shutdown
Feeder 14 – Pucklechurch to Severnside	Complete	Pipeline Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 5 – Gravesend Thames S to Tatsfield	1 further run to be completed in Nov	In Line Inspection
Feeder 9 – Steppingley to East Isley	Complete	In Line Inspection

August 2013

Compressor Station Outages	Dates	Maintenance Description
Wooler	Complete	Routine Maintenance
Nether Kellet	Complete	Non-Return Valve Replacement
Alrewas	Underway	Fire and Gas System Mods
Hatton	Complete	Non-Return Valve Replacement
Peterborough	Complete	Control System
Aylesbury	Complete	Control System
Wormington	Complete	Routine Maintenance
Wisbech	Underway	Control System
Kirriemuir	Complete	Routine Maintenance & Tie in for new unit
Huntingdon	Complete	Non-Return Valve Modifications

Pipeline Work	Dates	Maintenance Description
Feeder 7 – Nuffield to East Ilsley	Complete	Pipeline Shutdown
Feeder 9 – Peterborough to Luton	Complete	Pipeline Shutdown
Feeder 10 – Thrunton to Saltwick Isolation	Complete	Pipeline Shutdown
Feeder 11 – Brechin to Kirriemuir	Complete	Pipeline Shutdown
Feeder 13 – Lochside to Barnhead	Cancelled	Pressure Restriction
Feeder 22 – Silk Willoughby to Aslackby	Complete	Pipeline Shutdown
Feeder 3 – Bacton to Felthorpe	Complete	Pipeline shutdown
Feeder 9 – Brocklesby to Swallow	Now 2014	Pressure Restriction
Feeder 12 Longtown to Tow Law	Complete	Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 7 – Pannal to Cawood	Complete	In Line Inspection
Feeder 2 – Wormington to Treadow	Complete	In Line Inspection
Feeder 7 – Blyborough to Brigg	Complete	In Line Inspection
Feeder 17 – Theddlethorpe to Hatton	Complete	In Line Inspection
Feeder 9 – Steppingley to East Ilsley	Complete	In Line Inspection

September 2013

Compressor Station Outages	Dates	Maintenance Description
Bishop Auckland	Complete	Routine Maintenance
Alrewas	Underway	Fire and Gas System Mods
Aylesbury	Complete	Control System
Wisbech	Underway	Control System
Wooler	Underway	Routine Maintenance
Kirriemuir	Complete	Routine Maintenance & Tie in for new unit

Pipeline Work	Dates	Maintenance Description
Feeder 11 – Longtown to Wetheral	Now 2014	Pipeline shutdown for River Eden Diversion
Feeder 9 – Brocklesby to Swallow	Now 2014	Pressure Restriction
Feeder 9 – Peterborough to Luton	Complete	Pipeline Shutdown
Feeder 9 – Steppingley to Whitwell	Complete	Pipeline Shutdown
Feeder 10 - Falahill to Penicuik	Complete	Pipeline Shutdown
Feeder 10 Lennel N to Lennel S	Underway	Pipeline Shutdown
Feeder 11 – Brechin to Kirriemuir	Complete	Pipeline Shutdown
Feeder 4 – Drointon to Alrewas	Underway	Pipeline Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 2 – Dowlais to Dyffryn Clydach	Awaiting new dates	In Line Inspection
Feeder 11 – Grayrigg to Samlesbury	Sep - Oct	In Line Inspection
Feeder 14 – Sapperton to Cirencenster	Now 2014	In Line Inspection
Feeder 14 – Austrey to Shustoke	Now 2014	In Line Inspection

October 2013

Compressor Station Outages	Dates	Maintenance Description
Alrewas	Aug – Oct	Fire and Gas System Modifications
Wisbech	Aug - Oct	Control System Replacement

Pipeline Work	Dates	Maintenance Description
Feeder 10 - Lennel N to Lennel S	September - October	Pipeline Shutdown
Feeder 2 & 23 - Treadow to Llanvetherine	Oct – Dec	Pipeline Shutdown
Feeder 11 – Melkinthorpe to Grayrigg	Oct – Nov	Pipeline Shutdown
Fdr 4 Drointon to Alrewas	Sep - Oct	Pipeline Shutdown

In Line Inspections	Dates	Maintenance Description
Feeder 11 – Grayrigg to Samesbury	Sep - Oct	In Line Inspection
Feeder 13 Arbroath to Haddington	Oct	In Line Inspection
Feeder 11 – Grayrigg to Salmesbury	Oct	In Line Inspection
Feeder 10 – Bathgate to Glenmavis	Oct	In Line Inspection
Feeder 10 – Coldstream to Thrunton	Oct – Nov	In Line Inspection

ASEP Capability Table – 2013 Maintenance

The included table shows indicative capability for each ASEP, including the effect of the summer 2013 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 capability for each month, based on Seasonal Normal Demand conditions and for the period in the month 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 is expected to have no adverse effect 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 at other appropriate ASEP's.

	Apr	May	Jun	Jul	Aug	Sep	Oct
St Fergus	105 (1155)	82 (902)	No impact	98 (1078)	101 (1111)	No impact	No impact
Teesside	No impact	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	No impact
Easington	No impact	No impact	No impact	No impact	No impact	No impact	No impact
Theddlethorpe	No impact	No impact	No impact	No impact	No impact	No impact	No impact
Bacton	No impact	No impact	No impact	No impact	No impact	No impact	No impact
Isle of Grain	No impact	No impact	No impact	64 (704)	No impact	60 (660)	No impact
Milford Haven	No impact	No impact	67 (737)	66 (726)	64 (704)	No impact	No impact

Values in MCM & (GWH)

(Conversion from MCM 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 to all relevant parties for the work detailed in this Final April 2013 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.