

**APRIL MAINTENANCE
&
CAPACITY EXPANSION
PROGRAMME**

Summer 2008

Draft Copy
Version 1

National Grid

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1 Introduction

This Draft 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).

The document details the proposed Summer 2008 Maintenance Programme and the expected impact on the Gas Transmission System Entry and Exit Points. Therefore, meeting the requirements for National Grid NTS to publish a Draft of the Maintenance Programme under Section L: 1.5 of the UNC and Section G – Annex G2 of the UNC Offtake Arrangements Document.

The FINAL Maintenance Programme is to be issued by 15th March (OAD) & 1st April (TPD).

In accordance with Section L: 3.2 “Content of Programme” the document includes tables for each Aggregate System Entry Point (ASEP), detailing the maintenance work in proximity to that ASEP and how it has been scheduled during the planned maintenance period, 1st April 2008 to 31st October 2008. The maintenance work includes that which is scheduled at compressor stations and on the National Transmission System (NTS) pipelines. An explanation of the compressor station or pipeline work has been provided.

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

The included graphs show indicative capability for each ASEP, both excluding and including the effect of the annual maintenance schedule. The profiles 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.

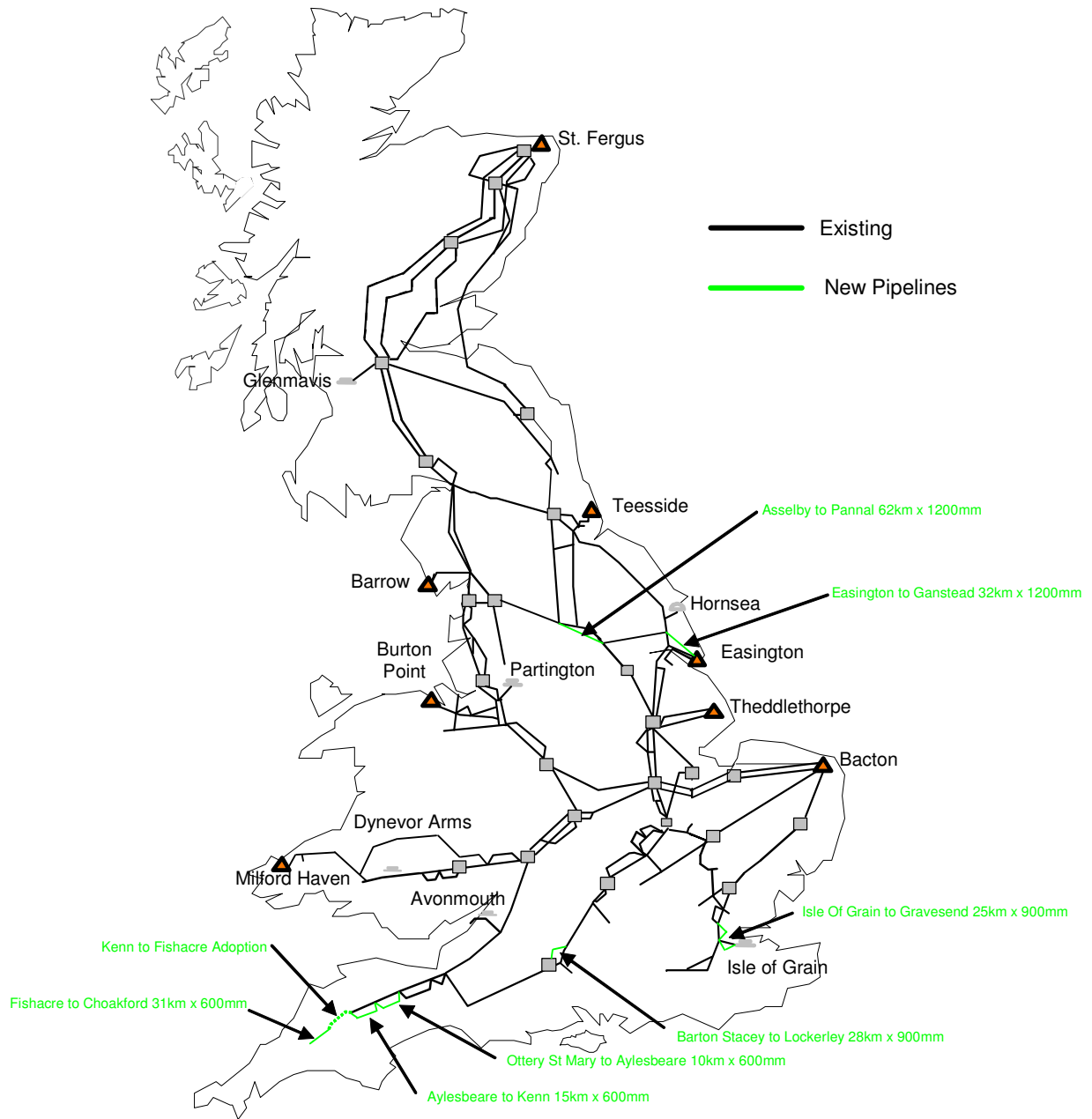
The capability profiles shown for the individual ASEP’s are indicative only. The amount of capability that may be available at any ASEP, on any given day, will depend on the level and distribution of demand and the level of supplies at other terminals.

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 Andy Barwick, Physical Operations Team, National Grid, Gas Operations, National Grid House, Gallows Hill, Warwick, CV34 6DA (Tel: 01926 653235).

2 Map of National Transmission System – Key Projects for 2008



3. The primary investment drivers for the NTS

The primary investment drivers for the NTS

- Increased peak entry capacity for supplies.
- Increased peak exit capacity for generic growth, interconnectors and large specific loads.
- Ongoing serviceability of the network to ensure supply security and meet legislative requirements.
- Projects to deliver additional flexibility and security.

The maintenance outages, which have been scheduled for Summer 2008, are for routine and non-routine compressor maintenance, pipeline work and reinforcement. Together these meet the drivers outlined above.

4 ASEP Capability Profiles

The included graphs show indicative capability for each ASEP up to the obligated baseline capacity level, both excluding and including the effect of the Summer 2008 Maintenance Programme. The profiles are displayed in monthly tranches and are based on appropriate Seasonal Normal Conditions.

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

Maximum Monthly ASEP Capability - Excluding Maintenance

The green bar represents this figure.

This is the potential maximum ASEP capability for each month. It is based on Seasonal Normal Demand conditions for the week in the month that has scheduled maintenance that most adversely affects the particular ASEP's capability. The maximum figure has been generated by National Grid and assumes the particular ASEP is favoured at the expense of other terminals. The figure excludes any effect of the Summer 2008 Maintenance Programme.

Monthly ASEP Capability - Including Maintenance

The blue bar represents this figure.

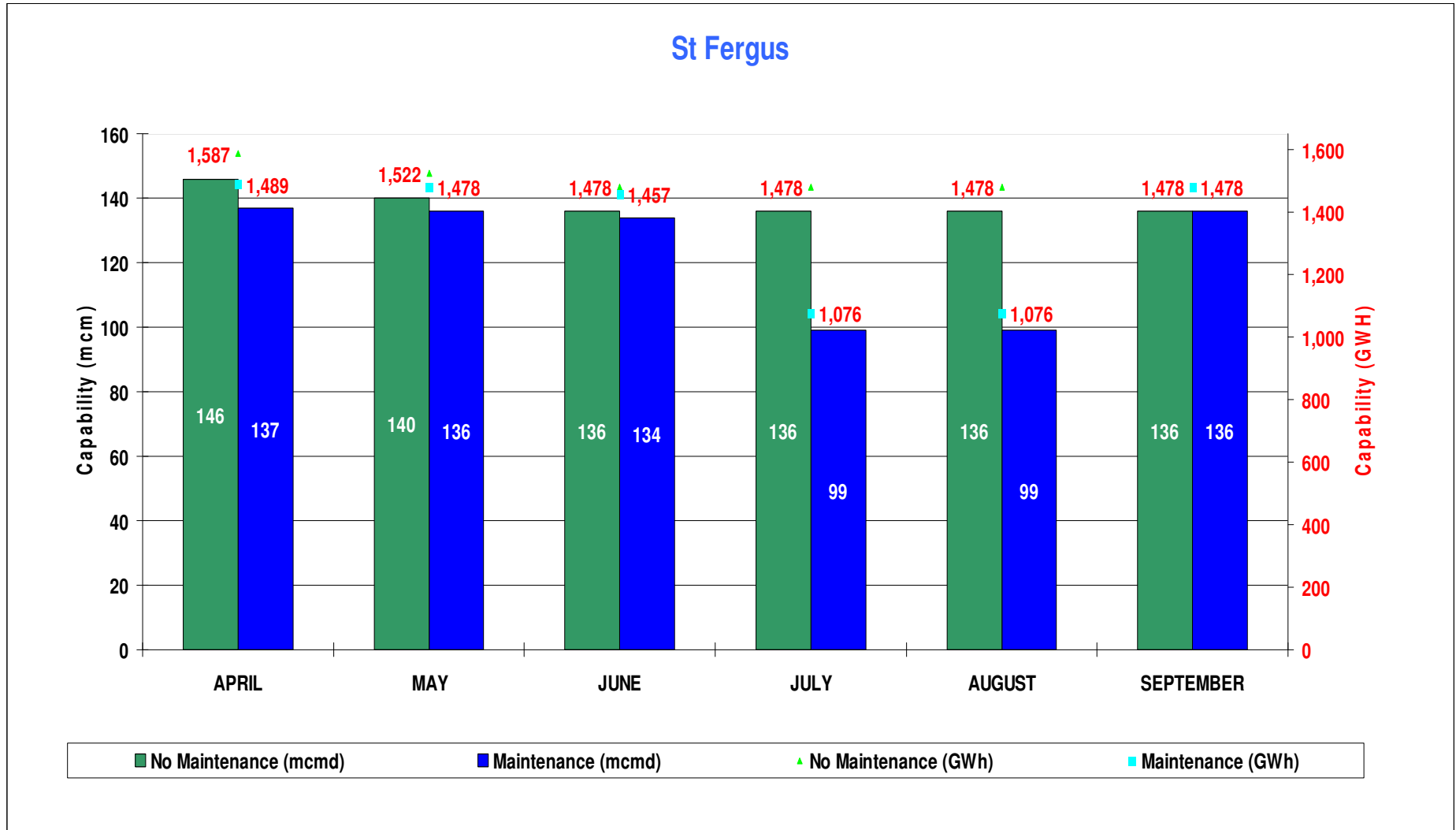
This is the ASEP capability for each month that includes any effect of the Summer 2008 Maintenance Programme. It is based on Seasonal Normal Demand conditions for the week in the month that has scheduled maintenance that most adversely affects the particular ASEP's capability. The figure has been generated by National Grid and assumes the particular ASEP is favoured at the expense of other terminals.

In cases during the maintenance period where the blue and green bars have the same value, this indicates that the maintenance scheduled for the time has no adverse effects on the ASEP capability.

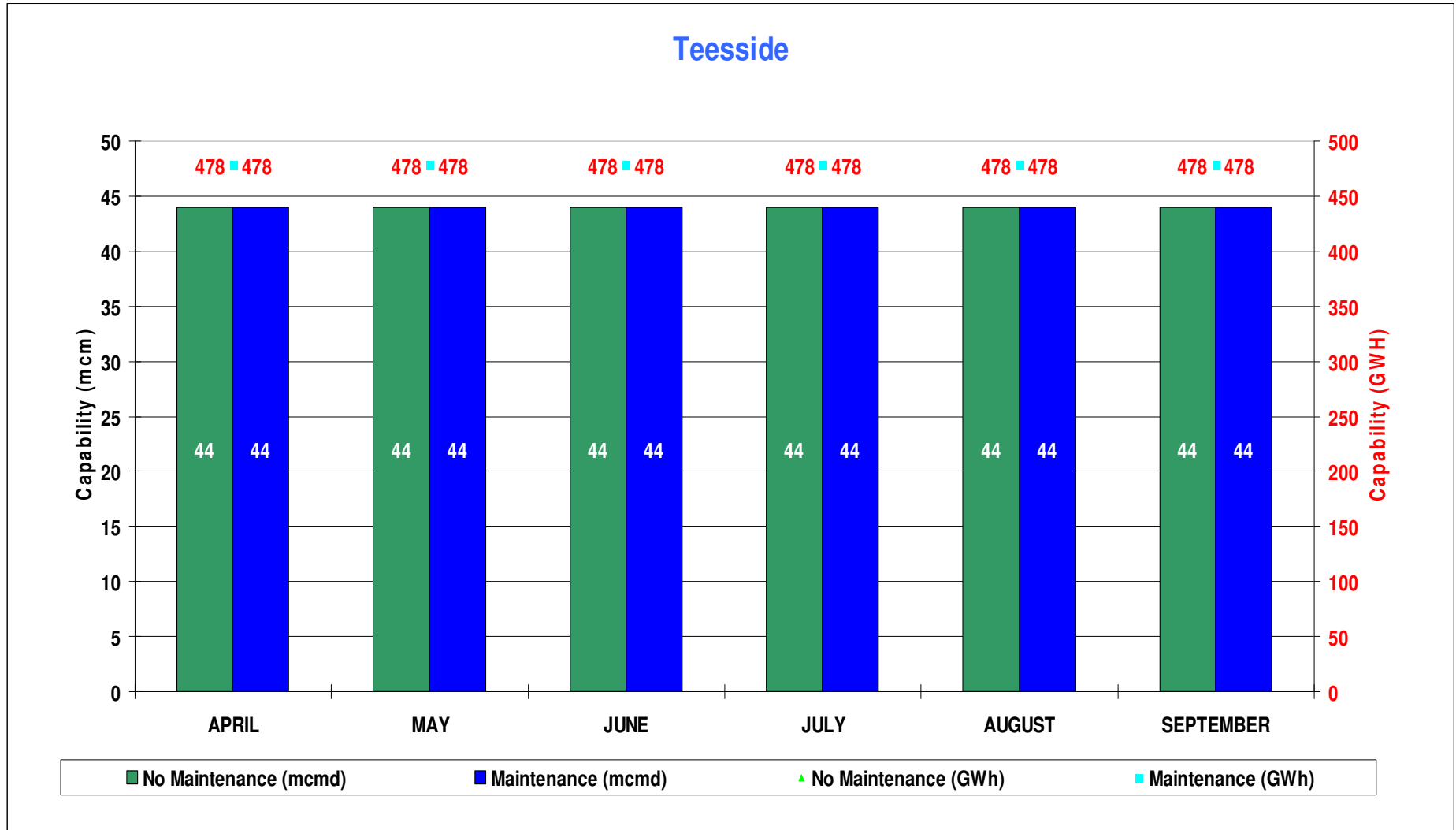
The capability profiles shown for the individual ASEP's are indicative only, but do represent a consistent operational view.

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 up to the Maximum Capability - Excluding Maintenance.

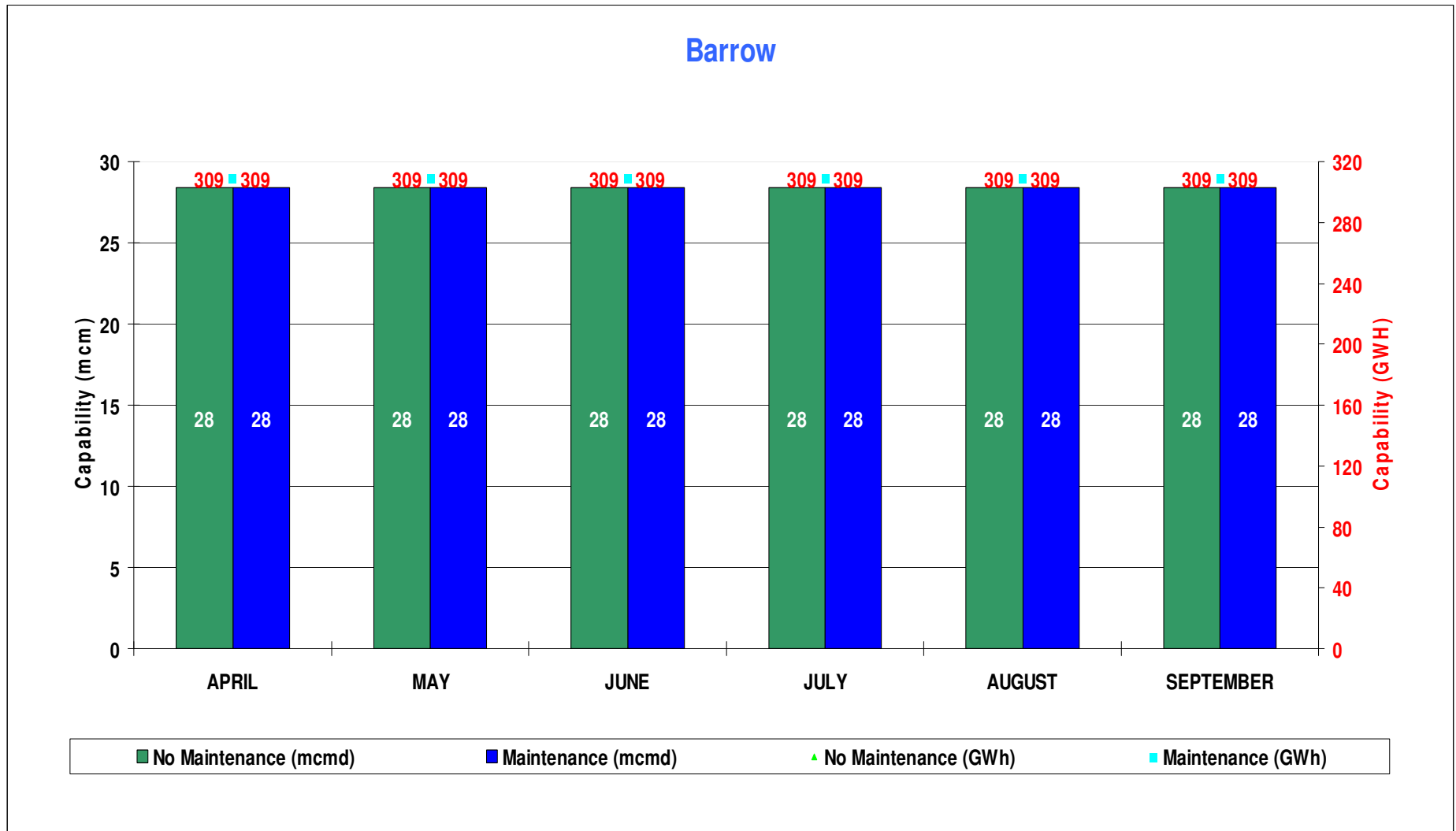
St Fergus



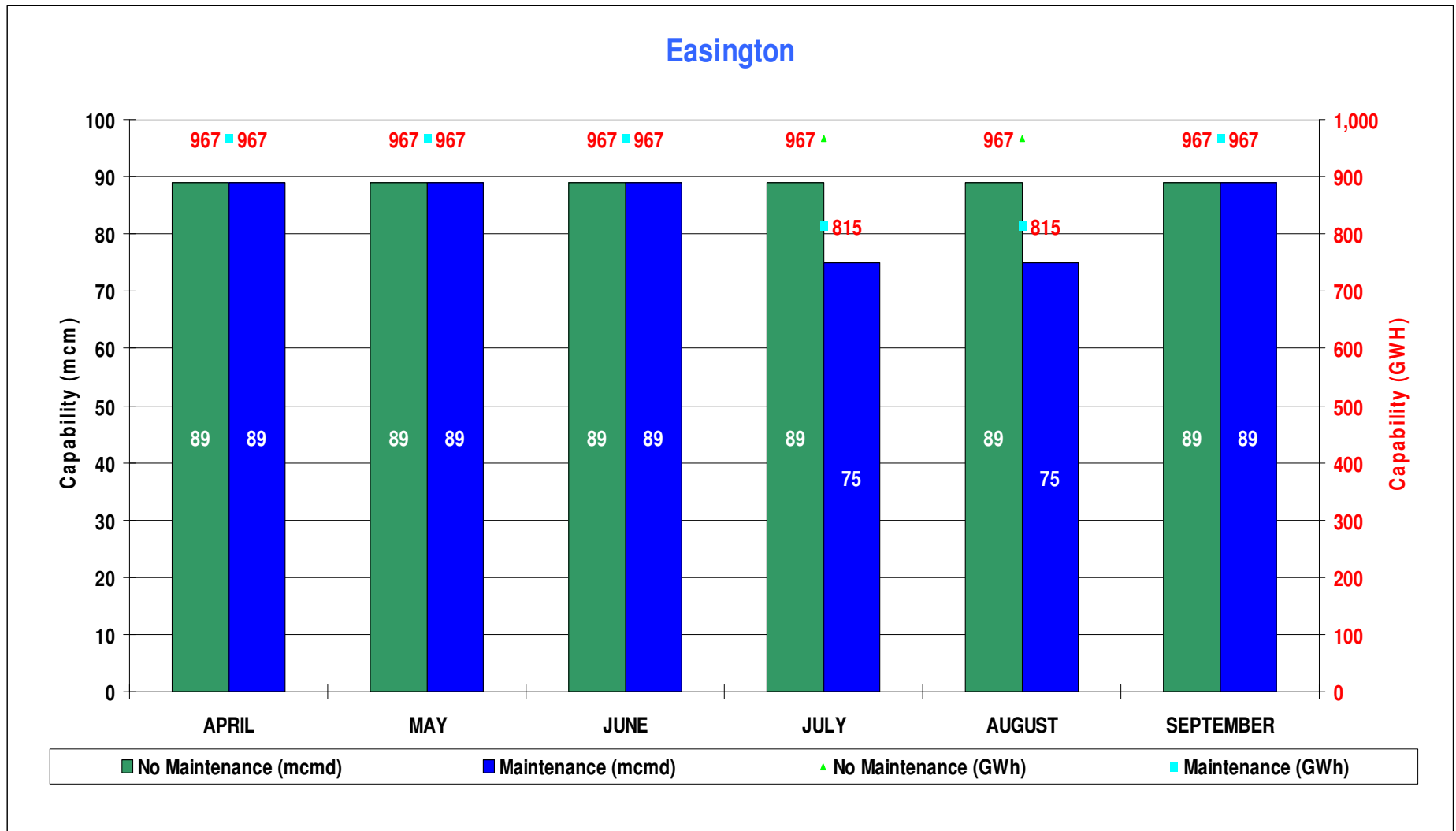
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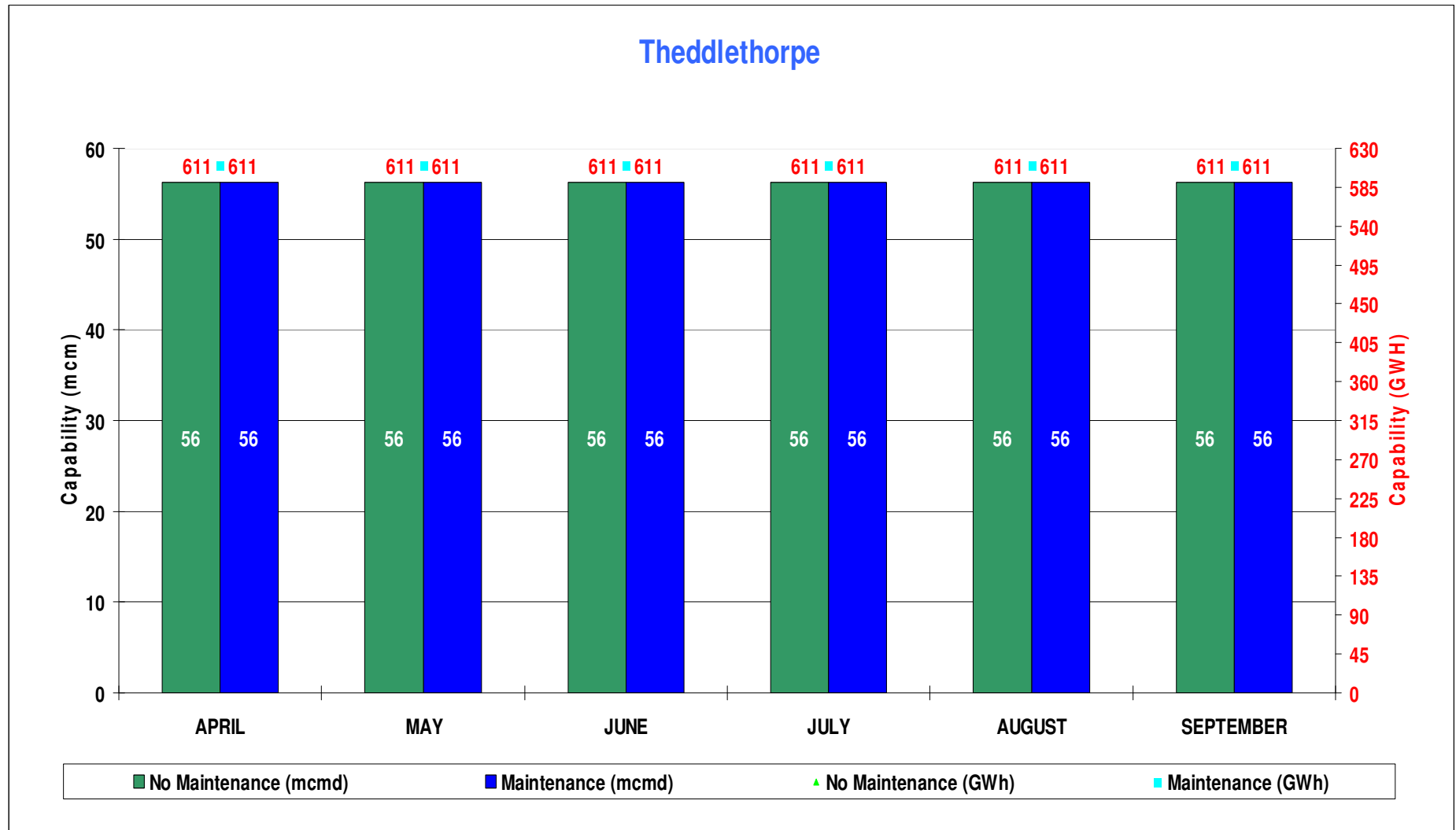
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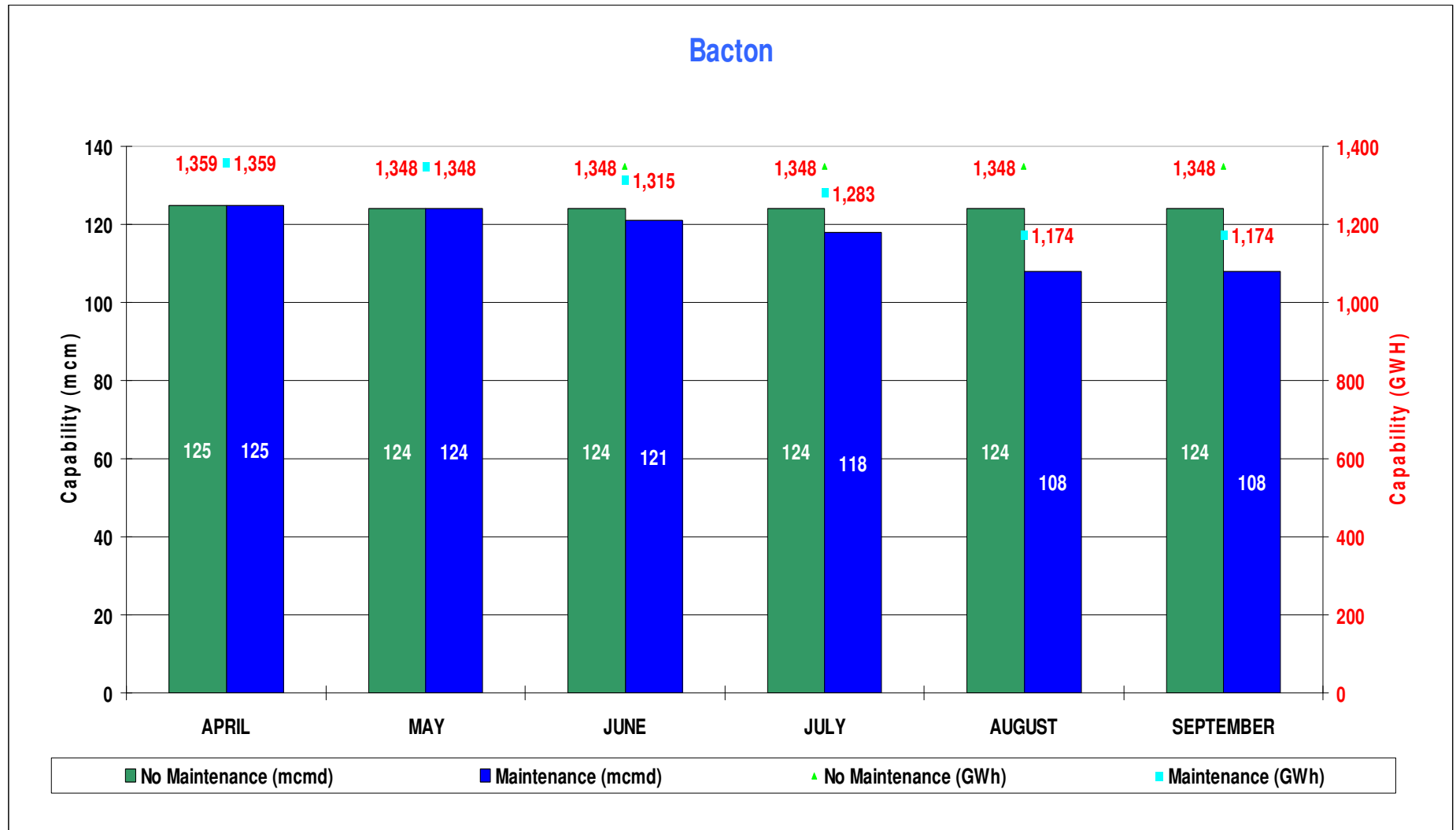
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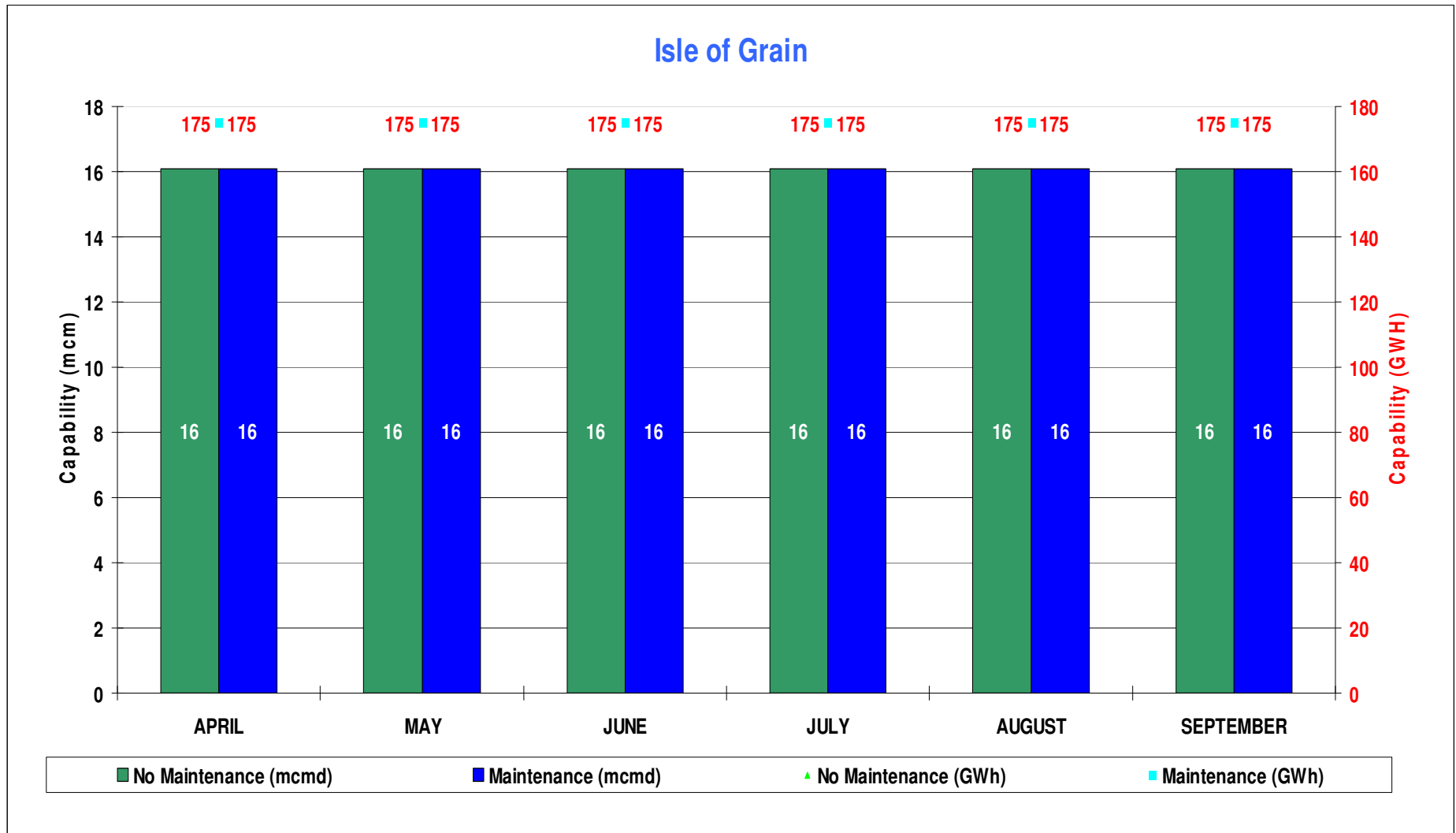
Theddlethorpe



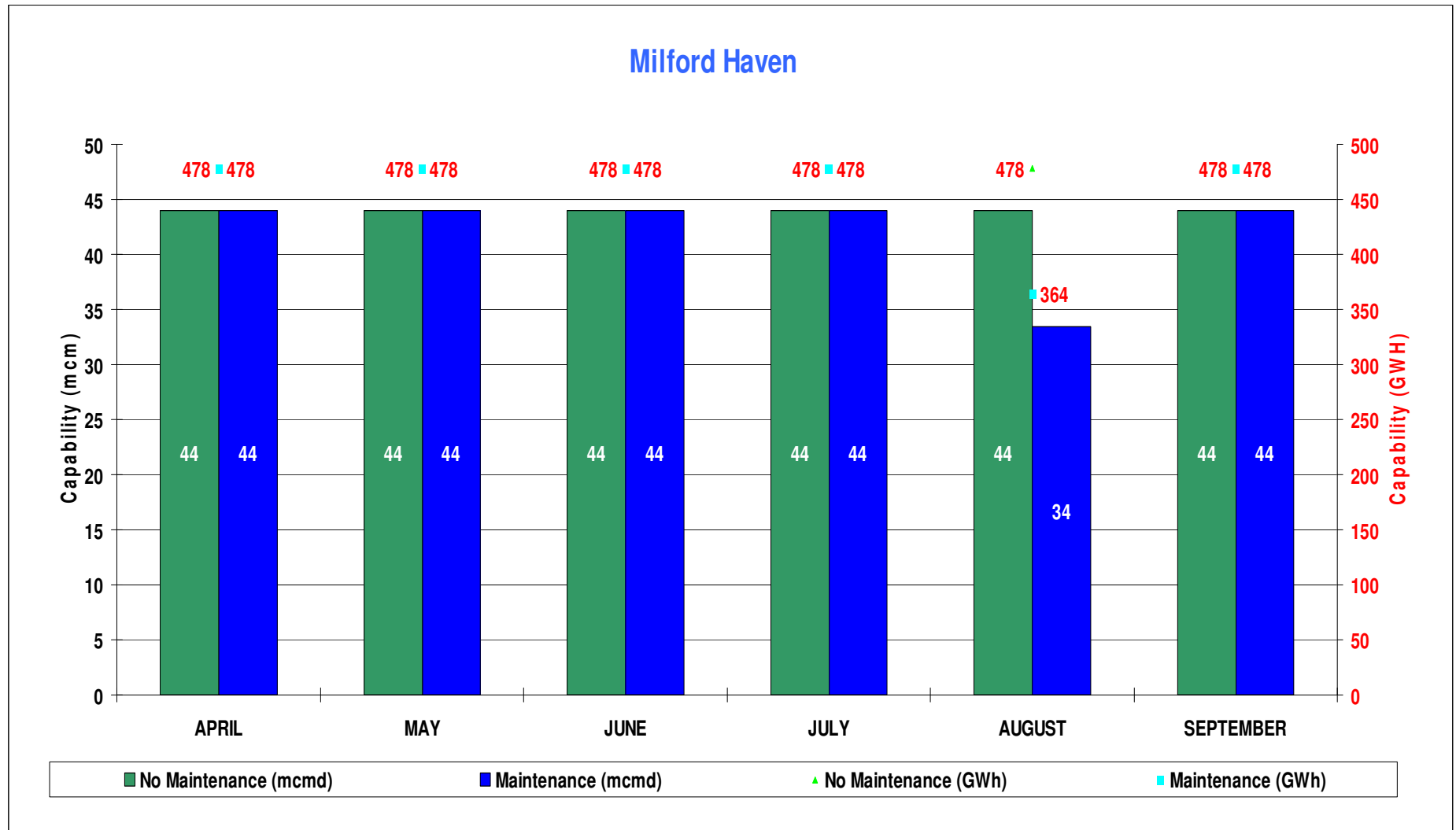
Bacton



Isle of Grain



Milford Haven



5. Maintenance Work by Month

April 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Kirriemuir	07/04 – 18/05	SC	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild

On Line Inspections	Dates	LDZ	Maintenance Description
Feeder 16	21/04 – 04/05		Barrow to Lupton

May 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Kirriemuir	07/04 – 18/05	SC	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild
Aylesbury	05/05 – 18/05	SO	Routine Maintenance
Cambridge	12/05 – 25/05	EA	Routine Maintenance

Pipeline Work	Dates	LDZ	Maintenance Description
Peterstow MJ	05/05 – 01/06		Construct & commission header linking Feeders 2 and 23
Treadow PRI	05/05 – 18/05		Feeder 2 shutdown for tie-in works

On Line Inspection	Dates	LDZ	Maintenance Description
Feeder 15	05/05 – 18/05		Lupton to Bretherton
Feeder 15	19/05 – 01/06		Bretherton to Warburton

June 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Avonbridge West	09/06 – 22/06	SC	Routine Maintenance
Avonbridge East	16/06 – 29/06	SC	Routine Maintenance
Carnforth	02/06 – 15/06	NW	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Alrewas	30/06 – 13/07	WM	Routine Maintenance
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild
Scunthorpe	23/06 – 13/07	EM	Routine Maintenance
Wisbech	09/06 – 22/06	EA	Routine Maintenance
Peterstow	02/06 – 22/06	SW	Routine Maintenance
Diss	23/06 – 06/07	EA	Routine Maintenance
Chelmsford	02/06 – 15/06	EA	Routine Maintenance

Pipeline Work	Dates	LDZ	Maintenance Description
Isle of Grain Link	09/06 – 13/06		Hot tap

On Line Inspection	Dates	LDZ	Maintenance Description
Feeder 4	30/06 – 13/07		Audley to Shocklach
Feeder 18	16/06 – 29/06		Matching Green to Ryehouse
Feeder 22	02/06 – 15/06		Goxhill to Hatton

July 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Aberdeen	21/07 – 31/08	SC	Routine Maintenance
Moffat	28/07 – 10/08	SC	Routine Maintenance
Bishop Auckland	21/07 – 27/07	NO	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Alrewas	30/06 – 13/07	WM	Routine Maintenance
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild
Scunthorpe	23/06 – 13/07	EM	Routine Maintenance
Hatton	21/07 – 24/08	EM	Routine Maintenance
Peterborough	07/07- 20/07	EA	Routine Maintenance
Diss	23/06 – 06/07	EA	Routine Maintenance

Pipeline Work	Dates	LDZ	Maintenance Description
Feeder 10	21/07 – 03/08		Shutdown between St. Fergus and Aberdeen

On Line Inspection	Dates	LDZ	Maintenance Description
Feeder 4	30/06 – 13/07		Audley to Shocklach
Feeder 6	28/07 – 10/08		Pickering to Burton Agnes
Feeder 14	14/07 – 27/07		Churchover to Wormington

August 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Aberdeen	21/07 – 31/08	SC	Routine Maintenance
Bathgate	25/08 – 07/09	SC	Routine Maintenance
Moffat	28/07 – 10/08	SC	Routine Maintenance
Nether Kellet	11/08 – 24/08	NW	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild
Hatton	21/07 – 24/08	EM	Routine Maintenance
Huntingdon	25/08 – 28/09	EA	Routine Maintenance
Lockerley	25/08 – 14/09	SO	Routine Maintenance
Wormington	04/08 – 24/08	SW	Routine Maintenance
Kings Lynn	25/08 – 07/09	EA	Routine Maintenance

Pipeline Work	Dates	LDZ	Maintenance Description
Treadow PRI	18/08 – 31/08		Commissioning and Tie-In

On Line Inspection	Dates	LDZ	Maintenance Description
Feeder 6	28/07 – 10/08		Pickering to Burton Agnes
Feeder 3	11/08 – 24/08		Whitwell to Peters Green
Feeder 7	18/08 – 31/08		Eastoft to Keadby

September 2008

Compressor Station Outages	Dates	LDZ	Maintenance Description
Bathgate	25/08 – 07/09	SC	Routine Maintenance
Wooler	08/09 – 21/09	NO	Routine Maintenance
Warrington	01/04 – 30/09	NW	Routine Maintenance and Control System Replacement
Churchover	07/04 – 28/09	WM	Routine Maintenance and Junction Rebuild
Huntingdon	25/08 – 28/09	EA	Routine Maintenance
Lockerley	25/08 – 14/09	SO	Routine Maintenance
Kings Lynn	25/08 – 07/09	EA	Routine Maintenance

Pipeline Work	Dates	LDZ	Maintenance Description
Feeder 4	08/09 – 14/09		Shutdown between Blaby and Alrewas

6 Maintenance Affected Exit Points

Some Exit Points may have short duration supply disruptions whilst NTS maintenance is being completed.

Where possible, maintenance at exit points are co-ordinated with the end user maintenance to avoid supply disruption.

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

Maintenance day(s) notifications have been issued to all relevant parties for the work detailed in this Draft April 2008 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 Unified Network Code.