

Stage 01: Proposal

0389:

Simplification of points of telemetry

Simplification of the points of telemetry described within Annex E-1 of the Offtake Arrangements Document.



The Proposer recommends that this self-governance modification should be considered by the Panel in September 2011



High Impact:  
N/A



Medium Impact:  
N/A



Low Impact:  
National Grid Transmission and the Distribution Transporters

What stage is this document in the process?

- 01 Proposal
- 02 Workgroup Report
- 03 Draft Modification Report
- 04 Final Modification Report

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

Version 4

Page 1 of 4

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## Contents

- 1 Summary
- 2 Why Change?
- 3 Solution
- 4 Relevant Objectives
- 5 Impacts and Costs
- 6 Implementation
- 7 The Case for Change
- 8 Legal Text
- 9 Recommendation

## About this document:

This document is an amended Modification Proposal. The changes reflect industry feedback received on the original published version 1.0 which was presented by the Proposer to the Modification Panel on 21 July 2011 and subsequently discussed at the Offtake Arrangements Workgroup.



### 3 Any questions?

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David.Corb@uk.ngrid.com



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[commercial.enquiries](mailto:commercial.enquiries@xoserve.com)

[@xoserve.com](mailto:commercial.enquiries@xoserve.com)



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0389

Simplification of Points of

Telemetry

Deleted: xxx

16<sup>th</sup> Aug

Deleted: 20

Version 4

Deleted: June

Page 2 of

Deleted: 1

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# 1 Summary

## Is this a Self Governance Modification

The proposer believes this is a Self Governance Modification as it concerns arrangements for the ongoing efficient and economic provision of point of telemetry items between Transporters. As such, the modification:

- (i) is unlikely to have a material effect on:
  - (aa) existing or future gas consumers; and
  - (bb) competition in the shipping, transportation or supply of gas conveyed through pipes or any commercial activities connected with the shipping, transportation or supply of gas conveyed through pipes; and
  - (cc) the operation of one or more pipe-line system(s); and
  - (dd) matters relating to sustainable development, safety or security of supply, or the management of market or network emergencies; and
  - (ee) the uniform network code governance procedures or the network code modification procedures; and
- (ii) is unlikely to discriminate between different classes of parties to the uniform network code/relevant gas transporters, gas shippers or DN operators.

In July 2011 the Modification Panel agreed that this proposal meets the self governance criteria.

## Why Change?

The Enduring Distribution Networks Arrangements (EDNA) Project Team was established by UNC Transporters to discuss what arrangements were required to manage the interface between the Transmission and the Distribution Network Operator systems post System Operator Managed Service Agreement (SOMSA).

One of the recommendations of the EDNA Project Team was that the points of telemetry as defined within the Offtake Arrangements Document (OAD), Section E Annex E-1, should be revised to reflect the operational requirements, as identified in the development of the Distribution Networks Control System (DNCS). It was identified at that time that the current list of points of telemetry in Annex E-1 are not all operationally required, and therefore the UNC does not reflect the proposed operational practice and the subsequent design of the interface between the DNCS and National Grid Transmission (NGT) systems.

## Solution

This modification proposes to replace the tables in Annex E-1 (Parts 1 through to 5) with a simpler structure and split into 4 Parts. It is also proposed to rationalise the list of points of telemetry contained in these tables.

## Impacts & Costs

This Modification aims to bring the UNC in line with the new systems and operational processes employed. No systems changes have been identified as required to support the implementation of this Modification Proposal. No costs are anticipated to implement this Modification Proposal.



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Version 4 **Deleted:** June

Page 3 of **Deleted:** 1

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## Implementation

In July 2011 the Modification panel agreed this proposal as a self-governance modification. Accordingly implementation will be 16 business days after a Modification Panel decision to implement is received.

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## The Case for Change

The rationalisation of the data items required to be transferred across the interface between DNCS and National Grid Transmission's systems increases the efficiency of the coordination between the DNs' systems and the National Transmission System. Therefore, this modification supports Relevant Objective C: Coordinated, efficient and economic operation of the combined pipe-line system.

## Recommendations

The proposer asks that the Modification Panel consider this Modification Proposal as a Self-Governance Modification and consider that it move directly to Consultation.

0389

Simplification of Points of  
Telemetry

16<sup>th</sup> Aug

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Version 4

**Deleted:** June

Page 4 of

**Deleted:** 1

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## 2 Why Change?



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### To align UNC with operational requirements

The EDNA Project Team was established by Transporters to discuss what arrangements were required to manage the interface arrangements between the Transmission and the Distribution Network Operator Systems post System Operator Managed Service Agreement (SOMSA). The EDNA Project Team identified a number of improvements that should be made for the enduring regime, one of which is being addressed through this Modification.

The points of telemetry to be provided by DNOs to NGT are described in the Offtake Arrangements Document (OAD), Section E Annex E-1. During the development of DNCS it was identified that the current list of points of telemetry in Annex E-1 does not match the operational requirements and the subsequent design of the new interface between DNCS and NGT systems. A number of the existing points of telemetry currently listed in UNC are no longer required, and the existing definitions of the individual points of telemetry can be updated to provide increased clarity.

[This Modification proposes to bring the UNC, OAD Section E Annex E-1 in line with current operational requirements.](#)

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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**Deleted:** 20

Version 4

**Deleted:** June

Page 5 of

**Deleted:** 1

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# 3 Solution



## 3.1 Background

Currently Annex E-1 shows 5 tables (table 2 has 2 parts):

- 1 "General Analogues"
- 2a "FWACV Analogues – CV-Directed Offtakes"
- 2b "FWACV Analogues NTS/LDZ Offtakes which are not CV-Directed Offtakes"
- 3 "States (All Sites)"
- 4 "Controls"
- 5 "Counters"

These tables contain columns showing the point of telemetry, whether the requirement is relevant to any offtake, or if the requirement is relevant only for a specific site, and an associated comment.

## 3.2 Proposal

This modification proposes that the tables currently detailed in Annex E-1 are replaced by the following revised tables (see below). The revised tables shall be split into the following 4 parts:

- "Analogues"
- "Digitals"
- "Valve Monitoring / Control"
- "Integrators"

Note that the change in names to the parts of the tables, as well as the change in names to the points of telemetry themselves, more accurately describe the data and therefore enhance clarity.

The existing tables in Annex E1 include points of telemetry that are no longer required. The points of telemetry detailed in the proposed revised tables, below, represent a reduced list of points of telemetry that exclude the items no longer required.

For the avoidance of doubt, the revised list of points of telemetry, below, include only four new points of telemetry (detailed in 3.2.1 below) that are not already provided in the current Code. These four new points of telemetry do not represent any data beyond that currently being provided to IGMS via the SCADA link from DNCS.

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

Version 4

Page 6 of

Deleted: xxx

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Deleted: June

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### 3.2.1 Revised points of telemetry

The tables presented below detail the points of telemetry currently shown in OAD Section E Annex E1 (in the "Current OAD Annex Ref" column) versus the proposed revised points of telemetry (in the "Proposed OAD Annex Ref" column). The third column details the proposed revised table that the point of telemetry shall be categorised under.

Where the "Proposed OAD Annex Ref" column is blank this represents a point of telemetry that the modification proposes to eliminate, reducing the obligation on the DNOs.


Current OAD Annex Table 1;

<u>Current OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>
<u>Pressures(s)</u>	<u>Feeder/Inlet pressure</u>	<u>Analogues</u>
<u>Outlet Pressure(s)</u>	<u>Outlet Pressure</u>	<u>Analogues</u>
<u>Interstage Pressure(s)</u>		
<u>Temperature(s)</u>	<u>Outlet Gas Temperature</u>	<u>Analogues</u>
<u>Orifice DP(s)</u>	<u>Orifice Standby Differential Pressure</u>	<u>Analogues</u>
<u>Orifice DP(s)</u>	<u>Orifice 'In Use' Differential Pressure</u>	<u>Analogues</u>
<u>Filter DP</u>	<u>Filter Differential Pressure</u>	<u>Analogues</u>
<u>FCV position(s)</u>		-
<u>Flow Setpoint(s)</u>		-
<u>Low Pressure Override Setpoints</u>		-
<u>High Pressure Override Setpoints</u>		-
<u>Outlet Pressure set point</u>		-
<u>Compressibility</u>	<u>Compressibility</u>	<u>Analogues</u>
<u>Flow meter temperature</u>	<u>Flow Meter Temperature</u>	<u>Analogues</u>

Current OAD Annex Table 2 (A and B);

<u>Current OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>
<u>Calorific Value</u>	<u>Calorific Value</u>	<u>Analogues</u>
<u>Relative Density</u>	<u>Relative Density</u>	<u>Analogues</u>
<u>Nitrogen</u>	<u>Nitrogen</u>	<u>Analogues</u>
<u>Carbon Dioxide</u>	<u>Carbon Dioxide</u>	<u>Analogues</u>
<u>Wobbe</u>	<u>Wobbe</u>	<u>Analogues</u>
<u>24 Hour Average CV</u>	<u>24 Hour Average CV</u>	<u>Analogues</u>
<u>24 Hour Average RD</u>	<u>24 Hour Relative RD</u>	<u>Analogues</u>
<u>Inst. Volume Flow(s)</u>	<u>Instantaneous Flow</u>	<u>Analogues</u>
<u>Inst. Energy Flow(s)</u>	<u>Instantaneous Energy Flow</u>	<u>Analogues</u>
<u>CV Tracker</u>	<u>24 Hour Average CV</u>	<u>Analogues</u>
<u>RD Tracker</u>	<u>24 Hour Relative RD</u>	<u>Analogues</u>

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

Version 4

Page 7 of 7

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Current OAD Annex Table 3:

In this table there are a number of proposed points of telemetry not corresponding to the Current OAD Annex. With the exception of the bottom three these do not represent new points of telemetry, but instead are redefined expansions of the existing OAD.

For example, the current "Instrument Fault" point of telemetry has a comment in the OAD Annex which reads "If fitted (may include RTU communications faults, barrier faults etc)". The proposed revision splits this point of telemetry into "Barrier", "Local Comms Link Status", "RTU Fault" and "Watchdog". This removes the ambiguity in the current OAD and provides clarity as to the exact Instrument Fault points of telemetry to be provided.

The same principle follows for the current "Site Charger Alarm", "Generator Running / Locked Out" and "Metering Alarm" points of telemetry.

The last three proposed points of telemetry (Valve Position, Comms Routing and Outstation) are not detailed in the current OAD column as they represent data items currently being provided via the SCADA link, but not detailed in the current OAD.

<u>Current OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>	<u>Proposed OAD Annex Table</u>	<u>Deleted: Integrators</u>	<u>Deleted: Point Name</u> ... [5]
<u>Filter</u>	<u>Filter</u>	<u>Digitals</u>		
<u>Slam Shut</u>		-		
<u>Maintenance Key</u>	<u>Maintenance Key</u>	<u>Digitals</u>		
<u>Inlet pressure alarm</u>		-		
<u>Outlet pressure alarm</u>		-		
<u>Heater/boiler status alarms</u>		-		
<u>Instrument fault</u>	<u>Barrier</u>	<u>Digitals</u>		
-	<u>Local Comms Link Status</u>	<u>Digitals</u>		
-	<u>RTU Fault</u>	<u>Digitals</u>		
-	<u>Watchdog</u>	<u>Digitals</u>		
<u>Intruder</u>	<u>Intruder</u>	<u>Digitals</u>		
<u>System Alarm(s)</u>	<u>Gas Quality System Alarm</u>	<u>Digitals</u>		
<u>Instrument Gas Fail</u>		-		
<u>Override</u>	<u>Pressure Override Alarm</u>	<u>Digitals</u>		
<u>Site Mains Supply</u>	<u>Power</u>	<u>Digitals</u>		
<u>Site Charger Alarm</u>	<u>Charger</u>	<u>Digitals</u>		
-	<u>Site UPS</u>	<u>Digitals</u>		
<u>Generator running/locked out</u>	<u>Generator Alarm</u>	<u>Digitals</u>		
-	<u>Generator Available</u>	<u>Digitals</u>		
-	<u>Generator Bypass</u>	<u>Digitals</u>		
-	<u>Generator Trip</u>	<u>Digitals</u>		
-	<u>Generator Running</u>	<u>Digitals</u>		
-	<u>Generator Status</u>	<u>Digitals</u>		
<u>Metering alarm</u>	<u>Metering Alarm</u>	<u>Digitals</u>		
-	<u>Meter Stream Change</u>	<u>Digitals</u>		

0389

Simplification of Points of Telemetry

<u>16<sup>th</sup> Aug</u>	<u>Deleted: xxx</u>
<u>Version 4</u>	<u>Deleted: 20</u>
<u>Page 8 of 8</u>	<u>Deleted: June</u>
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<u>Remotely Operable Meter Valves</u>	<u>Meter Valve Position</u>	<u>Digitals</u>
<u>CV or tracker UPS alarm</u>	<u>Gas Quality System UPS</u>	<u>Digitals</u>
<u>CV Not Valid</u>	<u>CV Not Valid</u>	<u>Digitals</u>
<u>CV Not Attributable</u>	<u>CV Not Attributable</u>	<u>Digitals</u>
<u>FWACV Remote Access alarm</u>		-
<u>Status Local/Remote</u>	<u>Status Local/Remote</u>	<u>Digitals</u>
<u>FCV Selected</u>		-
<u>FCV Parallel</u>		-
<u>Mode SPC/DVC</u>		-
<u>Override in DVC</u>		-
<u>Local Valve Indications</u>		-
<u>Pump A common alarm</u>		-
<u>Pump B common alarm</u>		-
<u>Tank low level</u>		-
<u>Power Supply</u>		-
	<u>Valve Position of Feeder / Inlet isolation Valves</u>	<u>Digitals</u>
-	<u>Comms Routing Status</u>	<u>Digitals</u>
-	<u>Outstation Comms Status</u>	<u>Digitals</u>

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Current OAD Annex Table 4:

<u>Current OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>	<u>Proposed OAD Annex Table</u>
<u>Remote Flow Control Valves</u>		-
<u>Remotely Operable Meter Valves</u>		-
<u>FCV Select</u>		-
<u>SPC/DVC Select</u>		-
<u>Override in DVC</u>		-
<u>FCV Parallel</u>		-
<u>Flow Setpoint</u>		-
<u>DVC Control</u>		-
<u>Low Pressure Override</u>		-
<u>High Pressure Override</u>		-
-	<u>Control function for Remotely Operable Valves operated by National Grid NTS</u>	<u>Controls</u>

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The last proposed point of telemetry (Control Function for Remotely Operable Valves...) represents a data item currently being provided via the SCADA link, but not detailed in the current OAD.

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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Version 4

Deleted: June

Page 9 of

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Current OAD Annex Table 5:

<u>Current OAD Annex Ref</u>	<u>Proposed OAD Annex Ref</u>	<u>Proposed OAD Annex Table</u>
<u>Volume integrators</u>	<u>Offtake Flow Integrator</u>	<u>Integrators</u>
<u>Boiler Volume Integrators</u>	<u>Fuel Gas for Pre-Heater Volume Integrator</u>	<u>Integrators</u>
<u>Boiler Energy Integrators</u>	<u>Fuel Gas for Pre-Heater Energy Integrator</u>	<u>Integrators</u>
<u>Energy integrators</u>	<u>Offtake Energy Integrator</u>	<u>Integrators</u>
<u>Pump A flow integrator</u>	-	-
<u>Pump B flow integrator</u>	-	-

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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Version 4

Deleted: June

Page 10

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## 4 Relevant Objectives

Implementation is expected to better facilitate the achievement of **Relevant Objective F: Promotion of efficiency in the implementation and administration of the Code.**

Proposer's view of the benefits against the Code Relevant Objectives

Description of Relevant Objective	Identified impact
a) Efficient and economic operation of the pipe-line system.	
b) Coordinated, efficient and economic operation of (i) the combined pipe-line system, and/ or (ii) the pipe-line system of one or more other relevant gas transporters.	Rationalisation of code to reflect the operational requirement for point of telemetry data between DNCS and NGT systems.
c) Efficient discharge of the licensee's obligations.	
d) Securing of effective competition: (i) between relevant shippers; (ii) between relevant suppliers; and/or (iii) between DN operators (who have entered into transportation arrangements with other relevant gas transporters) and relevant shippers.	
e) Provision of reasonable economic incentives for relevant suppliers to secure that the domestic customer supply security standards... are satisfied as respects the availability of gas to their domestic customers.	
f) Promotion of efficiency in the implementation and administration of the Code	

### Coordinated, efficient and economic operation of the combined pipe-line system

The proposer considers that this change rationalises the UNC to reflect the operational requirement for point of telemetry data transfer between DNCS and NGT systems thereby enhancing the coordinated, efficient and economic operation of the combined pipe-line system.



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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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Version 4

Deleted: June

Page 11

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## 5 Impacts and Costs



This Modification proposes to change the OAD such that it is in-line with the revised point of telemetry data items specified as part of the requirements for DNCS development.

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### Costs

Indicative industry costs – User Pays

No costs identified.

### Impacts

Impact on Transporters' Systems and Process

Transporters' System/Process	Potential impact
UK Link	None
Operational Processes	Improvement in the efficiency of passage of data between transporters.
User Pays implications	None

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Impact on Users

Area of Users' business	Potential impact
Administrative and operational	None
Development, capital and operating costs	None
Contractual risks	None
Legislative, regulatory and contractual obligations and relationships	None

Impact on Transporters

Area of Transporters' business	Potential impact
System operation	None
Development, capital and operating costs	None
Recovery of costs	None
Price regulation	None
Contractual risks	None

0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug Deleted: xxx

Version Deleted: 20

Page 12 Deleted: June

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Impact on Transporters	
Legislative, regulatory and contractual obligations and relationships	None
Standards of service	None

Impact on Code Administration	
Area of Code Administration	Potential impact
Modification Rules	None
UNC Committees	None
General administration	None

Impact on Code	
Code section	Potential impact
Offtakes Arrangements Document, Section E, Annex E-1	As described in Section 3 of this document.

Impact on UNC Related Documents and Other Referenced Documents	
Related Document	Potential impact
Network Entry Agreement (TPD I1.3)	None
Network Exit Agreement (Including Connected System Exit Points) (TPD J1.5.4)	None
Storage Connection Agreement (TPD R1.3.1)	None
UK Link Manual (TPD U1.4)	None
Network Code Operations Reporting Manual (TPD V12)	None
Network Code Validation Rules (TPD V12)	None
ECQ Methodology (TPD V12)	None
Measurement Error Notification Guidelines (TPD V12)	None
Energy Balancing Credit Rules (TPD X2.1)	None
Uniform Network Code Standards of Service (Various)	None

### Impact on Core Industry Documents and other documents

0389

Simplification of Points of Telemetry

16 <sup>th</sup> Aug	Deleted: xxx
Version 4	Deleted: 20
Page 13	Deleted: June
	Deleted: 1

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Impact on Core Industry Documents and other documents

Document	Potential impact
Safety Case or other document under Gas Safety (Management) Regulations	None
Gas Transporter Licence	None

Other Impacts

Item impacted	Potential impact
Security of Supply	None
Operation of the Total System	Enables continued efficient operation of Transmission and Distribution systems
Industry fragmentation	None
Terminal operators, consumers, connected system operators, suppliers, producers and other non code parties	None

0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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Version 4

Deleted: June

Page 14

Deleted: 1

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## 6 Implementation



Proposed Implementation Timetable	
Activity	Date
Development Workstream	<u>August 2011</u>
Modification proposed to Panel for Consultation	<u>September</u> 2011
Consultation	<u>September</u> 2011 – <u>October</u> 2011
Panel consideration	<u>October</u> , 2011
Ofgem Decision	<u>N/A</u>
Implementation	<p><u>In July 2011 the Modification panel agreed this proposal as a self-governance modification.</u></p> <p><u>Accordingly implementation will be 16 business days after a Modification Panel decision to implement is received.</u></p>

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Alternatively, if the decision is received between 15/10/2011 and 15/12/2011 then Implementation can take place on 1<sup>st</sup> January 2012.¶  
Alternatively, if the decision is received after 15/12/2011 then the proposal will be implemented on the 1<sup>st</sup> business day of the month following the date of decision.

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0389

Simplification of Points of Telemetry

16<sup>th</sup> August **Deleted:** xxx

Version **Deleted:** 20

Page 15 **Deleted:** June

**Deleted:** 1

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## 7 The Case for Change

In addition to that identified the above, the Proposer has identified the following:

### Advantages

None identified further to Section 2, above.

### Disadvantages

None identified.



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0389

Simplification of Points of

Telemetry

16<sup>th</sup> Aug

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Deleted: 20

Version

Deleted: June

Page 16

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## 8 Legal Text

Suggested legal text

### **OAD Annex E-1**

Delete the table in Annex E-1 and replace as follows:

#### **Analogues**

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Point Name

... [7]

<u>Point Name</u>	<u>Minimum Requirement</u>	<u>Site Specific Option</u>	<u>Comments</u>
<u>Feeder/Inlet pressure</u>	<u>Yes</u>		
<u>Outlet Pressure</u>	<u>Yes</u>		
<u>Instantaneous Volume Flow</u>	<u>Yes</u>		
<u>Instantaneous Energy Flow</u>	<u>Yes</u>		
<u>Outlet Gas Temperature</u>		<u>Yes</u>	
<u>Calorific Value</u>	<u>Yes</u>		
<u>Relative Density</u>	<u>Yes</u>		
<u>Nitrogen</u>	<u>Yes</u>		<u>Except Tracker-only sites</u>
<u>Carbon Dioxide</u>	<u>Yes</u>		<u>Except Tracker-only sites</u>
<u>Wobbe</u>	<u>Yes</u>		<u>Except Tracker-only sites</u>
<u>24 Hour Average CV</u>	<u>Yes</u>		
<u>24 Hour Average RD</u>	<u>Yes</u>		
<u>Orifice Standby Differential Pressure</u>	<u>Yes</u>		<u>ODPn</u>
<u>Orifice Meter 'In Use' Differential Pressure</u>		<u>Yes</u>	<u>METER_DPn</u>
<u>Flow Meter Temperature</u>		<u>Yes</u>	
<u>Compressibility</u>		<u>Yes</u>	
<u>Filter Differential Pressure</u>		<u>Yes</u>	

#### **Digitals**

<u>Point Name</u>	<u>Minimum Requirement</u>	<u>Site Specific Option</u>	<u>Comments</u>
<u>Power</u>	<u>Yes</u>		<u>Mains/Phase Fail</u>

0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

Deleted: xxx

Deleted: 20

Version

Deleted: June

Page 17

Deleted: 1

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<u>Charger</u>	<u>Yes</u>		
<u>Site UPS</u>		<u>Yes</u>	
<u>Gas Quality System UPS</u>	<u>Yes</u>		
<u>Gas Quality System Alarm</u>	<u>Yes</u>		<u>SYSTEMn</u>
<u>Generator Alarm</u>		<u>Yes</u>	
<u>Generator Available</u>		<u>Yes</u>	
<u>Generator Bypass</u>		<u>Yes</u>	
<u>Generator Trip</u>		<u>Yes</u>	
<u>Generator Running</u>		<u>Yes</u>	
<u>Generator Status</u>		<u>Yes</u>	
<u>Barrier</u>		<u>Yes</u>	
<u>Local Comms Link Status</u>		<u>Yes</u>	
<u>RTU Fault</u>		<u>Yes</u>	
<u>Watchdog</u>		<u>Yes</u>	<u>Includes Computer alarm</u>
<u>Filter</u>		<u>Yes</u>	
<u>Maintenance Key</u>		<u>Yes</u>	
<u>Intruder</u>		<u>Yes</u>	
<u>Metering Alarm</u>	<u>Yes</u>		<u>MTR_SUSP</u>
<u>Meter Stream Change</u>		<u>Yes</u>	
<u>Meter Valve Position</u>		<u>Yes</u>	
<u>Status Local/Remote</u>		<u>Yes</u>	
<u>Pressure Override Alarm</u>		<u>Yes</u>	
<u>CV Not Valid</u>	<u>Yes</u>		
<u>CV Not Attributable</u>	<u>Yes</u>		<u>Except Tracker-only sites</u>
<u>Outstation Comms Status</u>	<u>Yes</u>		
<u>Comms Routing Status</u>	<u>Yes</u>		

**Valve Monitoring/Control**

<u>Point Name</u>	<u>Minimum Requirement</u>	<u>Site Specific Option</u>	<u>Comments</u>
<u>Control function for remotely operable valves operated by National Grid NTS</u>	<u>Yes</u>		

0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

Deleted: xxx

Deleted: 20

Version:

Deleted: June

Page 18

Deleted: 1

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<u>Valve position of all Feeder / Inlet isolation valves</u>	<u>Yes</u>		<u>Valves operated by National Grid NTS and Distribution Networks for isolation of Feeder / inlet of site</u>

**Integrators**

<u>Point Name</u>	<u>Minimum Requirement</u>	<u>Site Specific Option</u>	<u>Comments</u>
<u>Offtake Volume Integrator</u>	<u>Yes</u>		
<u>Offtake Energy Integrator</u>	<u>Yes</u>		
<u>Fuel Gas for Pre-heater Volume Integrator</u>		<u>Yes</u>	
<u>Fuel Gas for Pre-heater Energy Integrator</u>		<u>Yes</u>	

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0389

Simplification of Points of Telemetry

16<sup>th</sup> Aug

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Deleted: 20

Version

Deleted: June

Page 19

Deleted: 1

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## 9 Recommendation



The Proposer invites the Panel to:

- Receive the Workgroup report on or before September 2011.
- DETERMINE that Modification Proposal subsequently progress to Consultation or return to Workgroup as necessary.

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Simplification of Points of

Telemetry

16<sup>th</sup> Aug

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Deleted: 20

Version

Deleted: June

Page 20

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### What is a tracker site?

A tracker site is a site flowing greater than one million cubic meters, and for which NGT has a critical requirement for increased data to ensure the efficient and safe operation of the system.

Point Name	Minimum Requirement	Site Specific Option	Comments
Feeder/Inlet pressure	Yes		
Outlet Pressure	Yes		
Station Flow	Yes		
Instantaneous Volume Flow	Yes		
Instantaneous Energy Flow	Yes		
Gas Temperature	Yes		Except tracker sites
Calorific Value	Yes		
Specific Gravity	Yes		
Nitrogen	Yes		Except tracker sites
Carbon Dioxide	Yes		Except tracker sites
Wobbe	Yes		Except tracker sites
24 Hour Average CV	Yes		
24 Hour Average SG	Yes		
Orifice Differential Pressure	Yes		
Meter Differential Pressure	Yes		
Flow Temperature	Yes		Except tracker sites
Compressibility	Yes		Except tracker sites
Filter Differential Pressure		Yes	

Point Name	Minimum Requirement	Site Specific Option	Comments
Power	Yes		
Charger	Yes		
Site UPS		Yes	
Gas Quality System UPS	Yes		
Gas Quality System Alarm	Yes		
Generator Alarm		Yes	
Generator Available		Yes	
Generator Bypass		Yes	
Generator Trip		Yes	
Generator Running		Yes	
Generator Status		Yes	
Barrier		Yes	
Filter	Yes		
Maintenance Key		Yes	
Intruder	Yes		
Metering Alarm	Yes		
Meter Stream Change		Yes	
Meter Temperature		Yes	
Status Local/Remote		Yes	If fitted with remotely operable valves controlled by National Grid NTS
Override Alarm		Yes	
RTU Fault		Yes	
Watchdog		Yes	
CV Not Valid	Yes		
CV Not Attributable	Yes		Except tracker sites
Outstation Comms Status	Yes		
Comms Routing Status	Yes		
Local Comms Link Status		Yes	

Point Name	Minimum Requirement	Site Specific Option	Comments
Control function for remotely operable valves operated by National Grid NTS	Yes		
Valve position of all remotely operable valves	Yes		Valves operated by National Grid NTS and Distribution Networks for inlet isolation



**Where can I find details of the UNC Standards of Service?**

In the Revised FMR for Transco's Network Code Modification  
**0565 Transco Proposal for Revision of Network Code Standards of Service** at the following location:  
<http://www.gasgovernance.co.uk/sites/default/files/0565.zip>


**Page 8: [5] Deleted** david.corby 11/08/2011 15:36:00

Point Name	Minimum Requirement	Site Specific Option	Comments
Volume Integrator	Yes		
Energy Integrator	Yes		
Heater Volume Integrator		Yes	
Heater Energy Integrator		Yes	

**Page 12: [6] Deleted** david.corby 17/08/2011 08:48:00

**Page 17: [7] Deleted** david.corby 05/08/2011 13:27:00

**Analogue**

Point Name	Minimum Requirement	Site Specific Option	Comments
Feeder/Inlet pressure	Yes		
Outlet Pressure	Yes		
Station Flow	Yes		
Instantaneous Volume Flow	Yes		

Instantaneous Energy Flow	Yes		
Gas Temperature	Yes		Except tracker sites
Calorific Value	Yes		
Specific Gravity	Yes		
Nitrogen	Yes		Except tracker sites
Carbon Dioxide	Yes		Except tracker sites
Wobbe	Yes		Except tracker sites
24 Hour Average CV	Yes		
24 Hour Average SG	Yes		
Orifice Differential Pressure	Yes		
Meter Differential Pressure	Yes		
Flow Temperature	Yes		Except tracker sites
Compressibility	Yes		Except tracker sites
Filter Differential Pressure		Yes	

### Digitals

Point Name	Minimum Requirement	Site Specific Option	Comments
Power	Yes		
Charger	Yes		
Site UPS		Yes	
Gas Quality System UPS	Yes		
Gas Quality System Alarm	Yes		
Generator Alarm		Yes	
Generator Available		Yes	
Generator Bypass		Yes	
Generator Trip		Yes	
Generator Running		Yes	
Generator Status		Yes	
Barrier		Yes	
Filter	Yes		
Maintenance Key		Yes	
Intruder	Yes		
Metering Alarm	Yes		
Meter Stream Change		Yes	
Meter Temperature		Yes	
Status Local/Remote		Yes	If fitted with remotely operable valves controlled by National Grid NTS
Override Alarm		Yes	
RTU Fault		Yes	



Watchdog		Yes	
CV Not Valid	Yes		
CV Not Attributable	Yes		Except tracker sites
Outstation Comms Status	Yes		
Comms Routing Status	Yes		
Local Comms Link Status		Yes	

### Valve Monitoring/Control

Point Name	Minimum Requirement	Site Specific Option	Comments
Control function for remotely operable valves operated by National Grid NTS	Yes		
Valve position of all remotely operable valves	Yes		Valves operated by National Grid NTS and Distribution Networks for inlet isolation

### Integrators

Point Name	Minimum Requirement	Site Specific Option	Comments
Volume Integrator	Yes		
Energy Integrator	Yes		
Heater Volume Integrator		Yes	
Heater Energy Integrator		Yes	