

INITIAL WRITTEN ASSESSMENT for Modification Proposal P220 'Provision of new data items for improving market information'

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This document has been distributed in accordance with Section F2.1.10 of the Balancing and Settlement Code.²

P220 seeks to publish the following new data items on the Balancing Mechanism Reporting Service (BMRS):

- a) Outturn and reference temperatures;
- b) Wind generation forecast;
- c) Instantaneous and half-hourly generation by fuel type;
- d) Daily energy volumes transported across the Transmission System; and
- e) Non-Balancing Mechanism (BM) Short Term Operating Reserve (STOR) instructed volumes.

These new data items would be provided to the Balancing Mechanism Reporting Agent (BMRA) by the Transmission Company. With the exception of the Non-BM STOR data, P220 also proposes that the existing BMRS Electricity Data Summary Page should be expanded to include these new data items.

BSCCO'S RECOMMENDATIONS

On the basis of the initial assessment, BSCCo invites the Panel to:

- **DETERMINE that Modification Proposal P220 should be submitted to the Assessment Procedure;**
- **AGREE the Assessment Procedure timetable such that an Assessment Report should be completed and submitted to the Panel for consideration at its meeting of 14 February 2008;**
- **DETERMINE that the P220 Modification Group be formed from members of the Settlement Standing Modification Group; and**
- **AGREE the Modification Group Terms of Reference.**

¹ ELEXON Ltd fulfils the role of the Balancing and Settlement Code Company ('BSCCo'), pursuant to Annex X-1 of the Balancing and Settlement Code (the 'Code').

² The current version of the Code can be found at <http://www.elexon.co.uk/bscrelateddocs/BSC/default.aspx>.

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SUMMARY OF IMPACTED PARTIES AND DOCUMENTS

As far as BSCCo has been able to assess, the following parties/documents are potentially impacted by Modification Proposal P220.

Please note that this table represents a summary of the full initial impact assessment results contained in Appendix 2.

Parties	Sections of the BSC	Code Subsidiary Documents
Distribution System Operators <input type="checkbox"/>	A <input type="checkbox"/>	BSC Procedures <input checked="" type="checkbox"/>
Generators <input checked="" type="checkbox"/>	B <input type="checkbox"/>	Codes of Practice <input type="checkbox"/>
Interconnectors <input checked="" type="checkbox"/>	C <input type="checkbox"/>	BSC Service Descriptions <input checked="" type="checkbox"/>
Licence Exemptable Generators <input checked="" type="checkbox"/>	D <input type="checkbox"/>	Party Service Lines <input type="checkbox"/>
Non-Physical Traders <input checked="" type="checkbox"/>	E <input type="checkbox"/>	Data Catalogues <input type="checkbox"/>
Suppliers <input checked="" type="checkbox"/>	F <input type="checkbox"/>	Communication Requirements Documents <input type="checkbox"/>
Transmission Company <input checked="" type="checkbox"/>	G <input type="checkbox"/>	Reporting Catalogue <input type="checkbox"/>
Party Agents		
Data Aggregators <input type="checkbox"/>	H <input type="checkbox"/>	Core Industry Documents
Data Collectors <input type="checkbox"/>	I <input type="checkbox"/>	Ancillary Services Agreement <input type="checkbox"/>
Meter Administrators <input type="checkbox"/>	J <input type="checkbox"/>	British Grid Systems Agreement <input type="checkbox"/>
Meter Operator Agents <input type="checkbox"/>	K <input type="checkbox"/>	Data Transfer Services Agreement <input type="checkbox"/>
ECVNA <input type="checkbox"/>	L <input type="checkbox"/>	Distribution Code <input type="checkbox"/>
MVRNA <input type="checkbox"/>	M <input type="checkbox"/>	Distribution Connection and Use of System Agreement <input type="checkbox"/>
BSC Agents		
SAA <input type="checkbox"/>	N <input type="checkbox"/>	Grid Code <input type="checkbox"/>
FAA <input type="checkbox"/>	O <input type="checkbox"/>	Master Registration Agreement <input type="checkbox"/>
BMRA <input checked="" type="checkbox"/>	P <input type="checkbox"/>	Supplemental Agreements <input type="checkbox"/>
ECVAA <input type="checkbox"/>	Q <input checked="" type="checkbox"/>	Use of Interconnector Agreement <input type="checkbox"/>
CDCA <input type="checkbox"/>	R <input type="checkbox"/>	BSCCo
TAA <input type="checkbox"/>	S <input type="checkbox"/>	Internal Working Procedures <input type="checkbox"/>
CRA <input type="checkbox"/>	T <input type="checkbox"/>	BSC Panel/Panel Committees
SVAA <input type="checkbox"/>	U <input type="checkbox"/>	Working Practices <input type="checkbox"/>
Teleswitch Agent <input type="checkbox"/>	V <input checked="" type="checkbox"/>	Other
BSC Auditor <input type="checkbox"/>	W <input type="checkbox"/>	Market Index Data Provider <input type="checkbox"/>
Profile Administrator <input type="checkbox"/>	X <input checked="" type="checkbox"/>	Market Index Definition Statement <input type="checkbox"/>
Certification Agent <input type="checkbox"/>		System Operator-Transmission Owner Code <input type="checkbox"/>
Other Agents		
Supplier Meter Registration Agent <input type="checkbox"/>		Transmission Licence <input type="checkbox"/>
Unmetered Supplies Operator <input type="checkbox"/>		
Data Transfer Service Provider <input type="checkbox"/>		

1 BACKGROUND

1.1 Balancing Mechanism Reporting Service

The Balancing Mechanism Reporting Service (BMRS) provides electricity market participants with a wide range of operational and commercial information relating to the Balancing Mechanism. The BMRS is managed by the Balancing Mechanism Reporting Agent (BMRA) as a BSC Agent on behalf of BSCCo in accordance with Section V 'Reporting' of the Balancing and Settlement Code ('the Code'). A list of all the data currently published on the BMRS can be found in Table 1 of Annex V-1 'Tables of Reports' in the Code. This data is provided by the Transmission Company in accordance with Section Q 'Balancing Mechanism Activities', and definitions of the data items can be found in Annex X-2 'Technical Glossary' of the Code.

The BMRS contains information which is presented from close to real time to a half-hourly resolution, and is available 24 hours a day, 365 days a year. There are two methods of receiving information from the BMRS as follows:

- The **BMRS High Grade Service** is a dedicated private communications network, over which the BMRA data is broadcast to subscribing participants as soon as it is available. Currently, the charts and tables accessed via the BMRS High Grade Service website are 'auto-refreshed' such that users receive near-real-time updates.³ Participants who subscribe to the High Grade Service can also receive data through 'TIBCO' messaging as well as accessing the web pages (i.e. the data is 'pushed' to users). The High Grade Service is available to both BSC Parties ('Parties') and non-Parties at a charge payable to BSCCo.
- The **BMRS Low Grade Service** is a public website (www.bmreports.com), which can be accessed by any internet user free of charge. Data is made available to the High Grade and Low Grade services at the same time, but participants using the Low Grade Service need to use the webpage 'refresh' facility to retrieve the latest data as it becomes available (i.e. the data needs to be 'pulled' by users).

1.2 National Grid Consultation on Electricity Market Information

In the period following its October 2006 Operational Forum, National Grid has engaged with the industry regarding potential improvements to existing electricity market information. Initial views were gained by National Grid from the Electricity Operational Forum, the Demand Forecasting Seminar and the Demand Side Working Group (DSWG). A set of initial proposals were subsequently developed by National Grid and issued for industry consultation in August 2007 (Reference 1).

A key area discussed by the DSWG was the current lack of an electricity daily 'summary page' to provide key market information in a single place. It was noted that such a summary page has been available for the gas market from the National Grid website since 2005,⁴ and DSWG members suggested that a similar page for electricity market information would be beneficial for demand-side participants. One of the options issued for consultation by National Grid was therefore the proposed introduction of an electricity daily summary page, to be provided on the BMRS. The data proposed to be published on this summary page was a mixture of existing data already published on the BMRS and new data which would be provided to the BMRA by National Grid in its role as the Transmission Company.

³ It should be noted that the Imbalance Settlement Group (ISG) has recently agreed that a Change Proposal (CP) should be raised to give consideration to removing the auto-refreshing facility from the BMRS High Grade Service website, such that only one version of the BMRS website would be maintained (and which would be identical to the current Low Grade Service public website).

⁴ The gas Daily Summary Report can be found at: <http://www.nationalgrid.com/uk/Gas/Data/dsr/>.

Consideration was given by National Grid to publishing the electricity summary page on a platform other than the BMRS (for example, on its own website). However, respondents to National Grid's consultation indicated a strong preference that the BMRS should remain the primary platform for providing close-to-real-time operational and commercial information relating to the Balancing Mechanism.

1.3 BMRS Electricity Daily Summary Page

Following discussions with BSCCo and the BMRA, National Grid's consultation document proposed a 3-phase approach for the introduction of an electricity daily summary page as shown in Table 1 below. An indicative 'straw man' outlining the individual data items proposed to be published on the summary page in each phase was also provided as part of the consultation document (Reference 2).

Table 1 – BMRS Summary Page Approach

Phase	Modification Proposal required?	Cost / Lead Time	Delivery Timescales
<p>"The 10% solution"</p> <p>(A simple 'quick win' page of links to existing data and National Grid graphs)</p>	No – as only links to existing data	Zero cost and minimal delivery time	A high-level Electricity Daily Summary Page was implemented on the BMRS in July 2007 and can be found at: http://www.bmreports.com/dsr.htm
<p>"The 60% solution"</p> <p>(An actual summary page with graphs and summarised data, but only where the data is already available on the BMRS)</p>	No – as only reformatting of existing data	c.£35,000, with a delivery time in the region of 6 months	Work on these aspects of the summary page is currently underway by BSCCo/BMRA for implementation during the first quarter of 2008
<p>"The 100% solution"</p> <p>(A summary page containing new data items provided by National Grid in addition to existing data)</p>	Yes – as includes new data items	Would be established during progression of the Modification Proposal	Would be established during progression of the Modification Proposal

The rationale for this phased approach was that those parts of the proposed summary page which related to existing BMRS data could be delivered relatively quickly and at low cost without requiring a Modification Proposal, whilst those that would involve new data items being published by the BMRA could require more significant expenditure and lead times as well as a modification to the Code.

During discussions at the DSWG it was questioned whether a Modification Proposal was necessary to deliver new data items on the BMRS. However, subsequent discussions between National Grid and BSCCo highlighted that progressing the delivery of new data items via a Modification Proposal could have the following advantages compared to delivering these changes outside of the Code:

- The Code is silent as to whether data other than that already set out in Section V could be made available on the BMRS. However, making additional data available outside of the Code could be considered to be contrary to the intention of Section V, since this explicitly lists all the data which is currently published on the BMRS.
- The Code contains provisions to the effect that:
 - Each Party irrevocably and unconditionally consents to the publication on the BMRS of the data set out in Section V;

- No warranties or representations are given in respect of the accuracy or completeness of such data; and
- No Trading Dispute can arise as a result of the provision of this data.

These protections would not be afforded to any additional data which might be published on the BMRS outside of the Code.

- Making additional data available on the BMRS outside the Code would not provide Parties, the Panel or the Authority with a formal opportunity to consider the costs of the required BMRS changes and whether the benefits of publishing such data would outweigh these costs (i.e. whether the changes would better facilitate the achievement of the Applicable BSC Objectives).

Following consideration of the responses received to its consultation (Reference 3), National Grid therefore raised Modification Proposal P220 'Provision of new data items for improving market information' (P220) on 26 October 2007 to progress the inclusion of new data items on the BMRS summary page.

2 MODIFICATION PROPOSAL

P220 seeks to publish the following new data items on the BMRS:

- a) Outturn and reference temperatures;
- b) Wind generation forecast;
- c) Instantaneous and half-hourly generation by fuel type;
- d) Daily energy volumes transported across the Transmission System; and
- e) Non-Balancing Mechanism (BM) Short Term Operating Reserve (STOR) instructed volumes.

P220 proposes that all of these new data items would be provided to the BMRA by the Transmission Company in accordance with the times and description shown in Table 2 below.

Table 2 – P220 Proposed New Data Item Submissions

Data Item	Time	Description
Outturn temperature	No later than 17:00 each day	The following data applicable for the day preceding the current day: the outturn UK temperature expressed as an average Celsius value of all temperatures measured at midday.
Reference temperatures	No later than 17:00 each day	The following data applicable for the day preceding the current day: <ol style="list-style-type: none"> a) The Normal Reference Temperature expressed as a degrees Celsius value; b) The Low Reference Temperature expressed as a degrees Celsius value; c) The High Reference Temperature expressed as a degrees Celsius value.
Forecast wind generation (day and day ahead peak values)	No later than 17:00 each day	The following data applicable for the current day and the following day: <ol style="list-style-type: none"> a) The forecast total peak generation by Power Park Modules expressed as an average MW value for the Settlement Period; b) Time associated with the data defined in (a) above; c) The total Registered Capacity expressed as an average MW value of the Power Park Modules metered by the Transmission Company.

Data Item	Time	Description
Outturn 'instantaneous' generation by fuel type (including Interconnector flows)	As close to real-time as practical	<p>The outturn total instantaneous generation expressed as a MW value for each of the following categories:</p> <ul style="list-style-type: none"> a) Combined Cycle Gas Turbine (CCGT) Modules; b) Oil Plant; c) Coal Plant; d) Nuclear Plant; e) Power Park Modules; f) Pumped Storage Plant; g) Cascade Hydro Scheme; h) Open Cycle Gas Turbine (OCGT) plant; i) External Interconnection flows from France to England; j) External Interconnection flows from Ireland to Scotland; and k) Other.
Outturn 'half-hourly' generation by fuel type (including Interconnector flows)	No later than 15 minutes following the end of each Settlement Period	<p>The outturn total generation expressed as an average MW value for that Settlement Period for each of the following categories:</p> <ul style="list-style-type: none"> a) CCGT Modules; b) Oil Plant; c) Coal Plant; d) Nuclear Plant; e) Power Park Modules; f) Pumped Storage Plant; g) Cascade Hydro Scheme; h) OCGT plant; i) External Interconnection flows from France to England; j) External Interconnection flows from Ireland to Scotland; and k) Other.
Outturn energy	No later than 17:00 each day	The following data applicable for the day preceding the current day: the outturn Transmission System Energy transmitted across the Transmission System expressed in MWh.
Non-BM STOR Instructed Volume	No later than 15 minutes following the end of each Settlement Period	The Non-BM STOR Instructed Volume for that Settlement Period.

Indicative legal drafting to include these new data item submissions within Section Q of the Code has been provided as part of the Modification Proposal. Changes would additionally be required to Annex X-2 of the Code (and potentially also Annex X-1 'General Glossary'), to define those terms and data items which are capitalised in Table 2 and are not already defined in the Code. Indicative legal drafting for Annex X-2 has been provided as part of the Modification Proposal. In addition, an explanation of the new terms can be found in Section 5 of this IWA.

With the exception of the Non-BM STOR data, P220 also proposes that the existing BMRS Electricity Data Summary Page should be expanded to include these new data items. This would require changes to Table 1 in Annex V-1 of the Code, which lists all data items that are published on the BMRS. Indicative legal drafting for the required Section V changes has not been provided as part of the Modification Proposal, which does not specify the precise format for the publication of the data on the BMRS.

As the Proposer of P220, National Grid believes that the industry feedback to its consultation indicates that the current electricity market information does not fully meet the needs of the industry and that it could be published in a more user-friendly way. National Grid believes that a daily BMRS summary page would improve the transparency and availability of information (particularly for smaller market participants) – enabling participants to see quickly the key electricity market operational parameters. National Grid believes that this would enhance competition through the efficient operation of the market and the Transmission System, since provision of better-quality information should improve self-balancing by participants.

3 AREAS FOR CONSIDERATION IN PROGRESSING MODIFICATION PROPOSAL

An initial assessment of P220 has identified the following areas which BSCCo recommends should be considered further by a Modification Group during the progression of the Modification Proposal.

3.1 Submission of Data to BMRA

As shown in Table 2, the Modification Proposal specifies a description of each suggested new data item and contains details of the proposed timings by which the Transmission Company would submit the data to the BMRA. However, these represent 'no later than' timings, and therefore leave some flexibility as to the precise point of data submission.

For example, the Modification Proposal specifies that reference temperature data should be submitted 'no later than' 17:00 each day. Potentially, this leaves the Transmission Company the option to either submit the data on a daily basis, or to provide the temperatures as standing data at the start of each year (since either approach would be compliant with the suggested legal drafting).

BSCCo therefore recommends that the Modification Group considers the most appropriate submission approach for each data item prior to requesting any impact assessment from the BMRA – since the chosen approach may affect the changes which are required to BMRA systems and processes in order to receive and publish the new data.

In addition, the Modification Proposal is silent as to how the new data would be compiled prior to its submission to the BMRA. For example, it is not specified whether the identification of BM Unit fuel type for the new outturn generation data would be undertaken by the Transmission Company or BSCCo. This will need to be agreed by the Modification Group as part of its development of the solution for the Proposed Modification.

3.2 Format of Publication on the BMRS

The Modification Proposal does not specify the format in which the new P220 data would be published on the BMRS (for example, whether the format would be graphic or tabular).

BSCCo therefore recommends that the Modification Group should consider the most appropriate format in which to publish each new data item on the BMRS. Although an original BMRS 'straw man' was developed by National Grid for inclusion in its consultation, this was limited to showing the suggested format in which the new data would be published on the BMRS summary page. In addition to the summary page display, BSCCo recommends that the Modification Group considers whether individual new BMRS web pages and/or TIBCO messages should also be developed for each data item (note that, as the Non-BM STOR data is not proposed to be published on the summary page, a minimum of one new page would need to be developed for this data). BSCCo proposes to produce an updated 'straw man', including illustrative examples of how the additional web pages might look, for discussion at the first Modification Group meeting.

3.3 Costs of Data Submission and Publication

The responses to National Grid's consultation (Reference 3) indicated that the level of implementation costs would be an important factor for many Parties in considering the overall benefit of publishing the proposed new data.

For this reason, BSCCo proposes that the central implementation costs of P220 (to the Transmission Company, BMRA and BSCCo) should be identified prior to issuing any industry consultation regarding the merits of the Modification Proposal. This would require the impact assessment and consultation to be undertaken sequentially rather than in parallel, in order that consultation respondents could consider the costs when giving their views as to whether P220 would better facilitate the achievement of the Applicable BSC Objectives.

It should be noted that National Grid has also raised Modification Proposal P219 'Consistency between forecast and outturn demand' ('P219') in the area of BMRS reporting (Reference 4). Although the two proposals seek to address different defects, and the implementation of one proposal would not be dependent or 'contingent' upon the other, it is possible that there may be potential cost savings to the BMRA if both proposals were to be implemented at the same time. BSCCo therefore recommends that the Modification Group should seek to identify any such potential cost savings as part of the impact assessment it commissions for P220. BSCCo does not believe that this would require P219 and P220 to be progressed under identical timetables – since, even if the Modification Reports for the two proposals were submitted to the Authority for decision at different times, they could still contain the same proposed Implementation Dates.

3.4 Consideration of any Alternative Modification

The responses to National Grid's consultation indicated differing levels of support for each data item which is proposed for publication under P220.

BSCCo notes that it is therefore possible that the Modification Group could wish to consider a potential Alternative Modification which published some, rather than all, of this data.

3.5 Implementation Date and Isis Interaction

BSCCo recommends that the Modification Group identifies any interaction with Project Isis⁵ (including any cost implications) which may arise from the implementation of P220, during its consideration of potential Implementation Dates for the Modification Proposal.

⁵ Project Isis seeks to procure services for the Central Volume Allocation, Supplier Volume Allocation and Funds Administration BSC Agents beyond 2009, when BSCCo's existing contracts for these services expire. Further details can be found on the BSC Website at: <http://www.elexon.co.uk/isis/default.aspx>.

The BSC Panel has agreed an implementation strategy for the delivery of Modification Proposals during the key periods of Isis activity, details of which can be found in Panel Paper 130/13 at: http://www.elexon.co.uk/documents/BSC_Panel_and_Panel_Committees/BSC_Panel_Meetings_2007_-_130_-_Papers/130_13_Isis_impact_on_BSC_Releases_v1.0.doc.pdf.

3.6 Legal Drafting

The Modification Proposal includes indicative legal drafting for Section Q and Annex X-2 of the Code. Changes would also be required to Table 1 of Annex V-1, and potentially to Annex X-1, for which indicative drafting has not been provided by the Proposer.

As part of the progression of P220, BSCCo therefore recommends that the Modification Group reviews the suggested drafting provided in the Modification Proposal and develops drafting for the additional impacted Code sections.

4 RATIONALE FOR BSCCO'S RECOMMENDATIONS TO THE PANEL

BSCCo believes that further consideration of P220 by a Modification Group is required in order to further consider, and consult upon, the areas raised by this IWA.

As the areas for consideration are sufficiently defined, BSCCo does not believe that a Definition Procedure is required for P220. Based on the differing levels of support for the proposed new data items amongst respondents to National Grid's consultation, and the comments of some respondents that the benefit of publishing the new data could depend on the extent of the implementation costs, BSCCo does not believe that P220 could be sent directly to the Report Phase as a change where the Panel's recommendation could be considered to be 'self-evident'. BSCCo therefore recommends that P220 should be submitted to the Assessment Procedure.

It is estimated that progression of P220 through the Assessment Procedure will require:

- 4 Modification Group meetings (the first of which is proposed to be held in parallel with P219);
- 1 impact assessment by BSC Agents, BSCCo, Parties, Party Agents, and Core Industry Document Owners (to be conducted prior to the industry consultation);
- 1 request for Transmission Company analysis (to be conducted in parallel with the impact assessment and prior to the industry consultation); and
- 1 industry consultation (to be held following the Modification Group's consideration of the impact assessment results).

Based on the required activities (some of which would span the Christmas and New Year period), BSCCo recommends a 3-month Assessment Procedure for P220. The proposed Assessment Procedure timetable and the estimated costs for progressing P220 through the Modification Procedures are shown in Appendix 3.

BSCCo recommends that the P220 Modification Group be formed from members of the Settlement Standing Modification Group (SSMG), whose areas of expertise include BMRS reporting. It should be noted that the Modification Group for related Modification Proposal P219 is also proposed to be formed from the SSMG, although a 2-month Assessment Procedure timetable is proposed for P219. Further information regarding the proposed P219 timetable can be found in the P219 IWA (Reference 4).

BSCCo recommends that the areas for consideration raised by this IWA should form the basis of the Modification Group Terms of Reference for P220, along with any additional areas proposed by the Panel.

5 TERMS USED IN THIS DOCUMENT

Other acronyms and defined terms take the meanings as defined in Section X of the BSC.

Acronym/Term	Definition
Cascade Hydro Scheme	Has the meaning as defined in the Grid Code (Reference 5).
Coal Plant	A Power Station which uses coal as the primary source of fuel.
CP	Change Proposal.
Combined Cycle Gas Turbine (CCGT)	Has the meaning as defined in the Grid Code.
DSWG	Demand Side Working Group.
External Interconnection	Has the meaning as defined in the Grid Code.
High Reference Temperature	The daily average UK temperature which was exceeded on 12% of days during a 30 year historic period.
ISG	Imbalance Settlement Group.
Low Reference Temperature	The daily average UK temperature which was exceeded on 88% of days during a 30 year historic period.
Non-BM STOR Instructed Volume	Volume of STOR instructed outside of the Balancing Mechanism in order to increase generation or reduce demand.
Normal Reference Temperature	The daily average UK temperature which was exceeded on 50% of days during a 30 year historic period.
Nuclear Plant	A Power Station which uses nuclear energy to generate electricity.
Oil Plant	A Power Station which uses oil as the primary source of fuel.
Open Cycle Gas Turbine Plant (OCGT)	Plant consisting of one or more Gas Turbine Units which are not part of a Combine Cycle Gas Turbine Module.
Pumped Storage Plant	Has the meaning as defined in the Grid Code.
Registered Capacity	Has the meaning as defined in the Grid Code.
Short Term Operating Reserve (STOR)	A balancing service procured by the Transmission Company and which has the meaning as defined in National Grid's Procurement Guidelines (Reference 6).
SSMG	Settlement Standing Modification Group.
Transmission System Demand	Has the meaning given to the term GB Transmission System Demand in the Grid Code.
Transmission System Energy	The integral with respect to time of Transmission System Demand.
Triad	Has the meaning as defined in National Grid's Statement of the Use of System Charging Methodology (Reference 7).

6 DOCUMENT CONTROL

6.1 Authorities

Version	Date	Author	Reviewer	Reason for Review
0.1	26/10/07	Kathryn Coffin	John Lucas	For technical review
0.2	31/10/07	Kathryn Coffin	David Jones	For quality review
1.0	02/11/07	Change Delivery		For Panel decision

6.2 References

Ref.	Document Title	Owner	Issue Date	Version
1	Electricity Market Information: Consultation on Potential Developments http://www.nationalgrid.com/uk/Electricity/Data/electricitymarketinfo/	National Grid	01/08/07	N/A
2	Electricity Daily Summary Page Strawman development http://www.nationalgrid.com/uk/Electricity/Data/electricitymarketinfo/	National Grid	N/A	N/A
3	National Grid Electricity Market Information Consultation: Conclusions Report http://www.nationalgrid.com/uk/Electricity/Data/electricitymarketinfo/	National Grid	15/10/07	N/A
4	Initial Written Assessment for Modification Proposal P219 'Consistency between forecast and outturn demand' http://www.elexon.co.uk/changeimplementation/ModificationProcess/ModificationDocumentation/modProposalView.aspx?propID=239	ELEXON	02/11/07	1.0
5	Grid Code: Glossary and Definitions http://www.nationalgrid.com/NR/ronlyres/5DFDEFEB-DDBC-4381-8DE5-4B2087AC6AC8/18438/GD_i3r21_entire.pdf	National Grid	20/12/06	Issue 3
6	Procurement Guidelines http://www.nationalgrid.com/NR/ronlyres/2643DEB7-377B-41F3-93C7-3AB85E729507/16053/PGsv80effectivefrom01apr07final.pdf	National Grid	01/04/07	8.0
7	The Statement of the Use of System Charging Methodology http://www.nationalgrid.com/NR/ronlyres/33828A47-C4A4-490B-AF7C-25E6E8D7C1DC/17924/UoSCMI3R1FINAL_BSUoSandCAP142_2.pdf	National Grid	22/07/07	Issue 3, Revision 1

APPENDIX 1: MODIFICATION PROPOSAL

Modification Proposal – BSCP40/03	MP No: 220 <i>(mandatory by BSCCo)</i>
Title <i>(mandatory by originator)</i> : Provision of New Data Items for Improving Market Information	
Submission Date <i>(mandatory by originator)</i> : 26 October 2007	
Description of Proposed Modification <i>(mandatory by originator)</i>	
<p>Over the last twelve months, Electricity market information has been the focus of industry discussions with both Ofgem and the market participants expressing support for improving the current market information. National Grid has facilitated these discussions at a number of industry fora (e.g. Demand Forecast Seminar, Demand Side Working Group chaired by Ofgem and Operational Forum), followed by publication of a consultation document to seek industry views on a number of areas associated with market information. Following industry response to this consultation, National Grid has summarised industry responses and the proposed way forward in a conclusions report. (Both the consultation document and the conclusions report can be found at http://www.nationalgrid.com/uk/Electricity/Data/electricitymarketinfo/ or copies can be obtained from the proposer of this modification).</p> <p>Based on industry responses, the conclusions report prioritises areas that could be taken forward in the short to medium term. It also highlights areas that are either already under development (e.g. consistency of forecast and outturn demand data) or are too complex and may need to be considered separately (e.g. demand outturn at GSP level). This modification proposal focuses on priority areas that could be taken forward in the short to medium term.</p> <p>A key priority area is the provision of a daily summary page (similar to the gas daily summary page established in 2005) which would contain key market information in a single place.</p> <p>Five out of the eleven respondents supported the provision of a daily summary page and its proposed contents (including data which is already published elsewhere on the BMRS as well as the new data items). National Grid considers that the majority of the favourable responses and support at other industry working groups such as the DSWG has come from the smaller players and customers who do not have their own systems for analysis and evaluation of key market information. National Grid believes that the daily summary page would improve information transparency, particularly for the smaller market participants, which would enhance efficient operation of the electricity market.</p> <p>The industry feedback also indicates that the daily summary page (and other new data items) should reside on the BMRS (Balancing Mechanism Reporting Service) system which is managed by Elexon, and that BMRS should be the preferred strategic choice for providing additional operational market information.</p> <p>Elexon is working on an interim solution which will allow publication of the key existing information on a single page on the BMRS as well as make the BMRS more flexible in future so that other data flows can be added more easily. Delivery of flexibility on the BMRS is an inherent function of completing the work in this modification proposal, as current technological solutions are now more flexible than those used for existing information provision through the BMRS.</p> <p>The enduring solution for the daily summary page and other data publication requires new data items from National Grid to the BMRS. Following the industry feedback on the daily summary page and its contents, these new data items have been prioritised as follows:</p> <ol style="list-style-type: none"> a) Outturn and reference temperatures b) Wind generation forecast (i.e. day and day ahead peak output forecast) c) Instantaneous and half-hourly generation by fuel type (i.e. CCGT, oil, coal, nuclear, OCGT, wind, 	

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<p>pumped storage, Hydro, French Interconnector, Moyle, other)</p> <p>d) Daily energy volumes transported across the system</p> <p>e) Non-BM STOR (Short Term Operating Reserve) instructed volumes</p> <p>With the exception of data item (e), the remaining new data items will be published on the daily summary page on the BMRS.</p>	
<p>Description of Issue or Defect that Modification Proposal Seeks to Address <i>(mandatory by originator)</i></p> <p>The main defect this modification proposal seeks to address is that the current market information does not fully meet the needs of the industry, as indicated by the industry feedback to the Transmission Company's recent consultation.</p> <p>The industry has also suggested that the key market information is scattered at a number of websites and is not available on a single platform. In particular, there is no daily summary page available for key electricity market information (as is the case for gas) to enable market participants to see quickly the key electricity market operational parameters.</p> <p>The proposed change would lead to the provision of additional information requested by the market, which, in conjunction with the existing market information, could be published in a more user friendly way to deliver a summary page. The summary page when delivered will include a mix of current information already available to the market and the new information referred to in this modification.</p>	
<p>Impact on Code <i>(optional by originator)</i></p> <p><u>Section Q</u></p> <p>Outturn Temperature</p> <p>Q6.1.15: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day: the outturn UK temperature expressed as an average degrees Celsius value of all temperatures measured at midday"</p> <p>Reference Temperatures</p> <p>Q6.1.16: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day:</p> <p>a) the Normal Reference Temperature expressed as a degrees Celsius value.</p> <p>b) the Low Reference Temperature expressed as a degrees Celsius value.</p> <p>c) the High Reference Temperature expected as a degrees Celsius value."</p> <p>Forecast wind generation (day and day ahead peak values)</p> <p>Q6.1.17: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the current day and the following day:</p> <p>a) the forecast total peak generation by Power Park Modules expressed as an average MW value for the Settlement Period</p> <p>b) time associated with the data defined in the above paragraph (a)</p> <p>c) the total Registered Capacity expressed as an average MW value of the Power Park Modules metered by the Transmission Company"</p> <p>Outturn 'instantaneous' generation by fuel type (including interconnector flows)</p> <p>Q6.1.18: Shall be added and read as follows: "As close to real-time as practical, the Transmission Company shall send to the BMRA the outturn total instantaneous generation expressed as a MW value for each of the following categories:</p>	

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- a) Combined Cycle Gas Turbine Modules
- b) Oil Plant
- c) Coal Plant
- d) Nuclear Plant
- e) Power Park Modules
- f) Pumped Storage Plant
- g) Cascade Hydro Scheme
- h) Open Cycle Gas Turbine plant
- i) External Interconnection flows from France to England
- j) External Interconnection flows from Ireland to Scotland
- k) Other"

Outturn 'half-hourly' generation by fuel type (including interconnector flows)

Q6.1.19: Shall be added and read as follows: "No later than 15 minutes following the end of each Settlement Period, the Transmission Company shall send to the BMRA the outturn total generation expressed as an average MW value for that Settlement Period for each of the following categories:

- a) Combined Cycle Gas Turbine Modules
- b) Oil Plant
- c) Coal Plant
- d) Nuclear Plant
- e) Power Park Modules
- f) Pumped Storage Plant
- g) Cascade Hydro Scheme
- h) Open Cycle Gas Turbine plant
- i) External Interconnection flows from France to England
- j) External Interconnection flows from Ireland to Scotland
- k) Other"

Outturn energy

Q6.1.20: Shall be added and read as follows: "No later than 1700 hours each day, the Transmission Company shall send to the BMRA the following data applicable for the day preceding the current day: the outturn Transmission System Energy transmitted across the Transmission System expressed in MWh"

Non-BM STOR (Short Term Operating Reserve) instructed volumes

Q6.1.21: Shall be added and read as follows: "No later than 15 minutes following the end of each Settlement Period, the Transmission Company shall send to the BMRA the Non-BM STOR Instructed Volume for that Settlement Period"

Section X, Annex X-2, Table X-2

Insert the following new terms:

Coal Plant			A Power Station which uses coal as the primary source of fuel.
Combined Cycle Gas Turbine Module			Has the meaning as defined in the Grid Code.
External Interconnection			Has the meaning as defined in the Grid Code.
High Reference Temperature		Degree Celsius	The daily average UK temperature which was exceeded on 12% of days during a 30 year historic period.
Low Reference		Degree	The daily average UK temperature which was

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Temperature		Celsius	exceeded on 88% of days during a 30 year historic period.
Non-BM STOR Instructed Volume		MWh	Volume of STOR instructed outside of the Balancing Mechanism in order to increase generation or reduce demand.
Normal Reference Temperature		Degree Celsius	The daily average UK temperature which was exceeded on 50% of days during a 30 year historic period.
Nuclear Plant			A Power Station which uses nuclear energy to generate electricity.
Oil Plant			A Power Station which uses oil as the primary source of fuel.
Open Cycle Gas Turbine Plant			Plant consisting of one or more Gas Turbine Units which are not part of a Combined Cycle Gas Turbine Module
Power Park Module			Has the meaning as defined in the Grid Code.
Registered Capacity		MW	Has the meaning as defined in the Grid Code.
STOR			Short Term Operating Reserve is a balancing service procured by the Transmission Company and has the meaning as defined in Procurement Guideline.
Transmission System			Has the meaning given to the term GB Transmission System in the Grid Code
Transmission System Demand		MW	Has the meaning given to the term GB Transmission System Demand in the Grid Code
Transmission System Energy		MWh	The integral with respect to time of Transmission System Demand
Impact on Core Industry Documents or System Operator-Transmission Owner Code (optional by originator)			
None.			
Impact on BSC Systems and Other Relevant Systems and Processes Used by Parties (optional by originator)			
Changes will be required to the system interfaces that transmit data from Transmission Company to the BMRS.			
Impact on other Configurable Items (optional by originator)			
BMRA & SAA Interface Specification - changes to this Specification need to be agreed between the Transmission Company and Elexon.			
Justification for Proposed Modification with Reference to Applicable BSC Objectives (mandatory by originator)			
Provision of better quality information should improve self-balancing by the market participants which should, in turn, improve the efficient, economic and co-ordinated operation of the GB transmission system (Applicable BSC Objective (b)).			
Increase in information transparency and availability of improved market information to all participants should promote effective competition in the generation and supply of electricity (Applicable BSC Objective (c)).			

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Urgency Recommended: Yes / No (delete as appropriate) (optional by originator)	
Justification for Urgency Recommendation (mandatory by originator if recommending progression as an Urgent Modification Proposal)	
Details of Proposer: Name: <i>Shafqat Ali</i> Organisation: <i>National Grid</i> Telephone Number: <i>01926 655980</i> Email Address: <i>shafqat.r.ali@uk.ngrid.com</i>	
Details of Proposer's Representative: Name: <i>Shafqat Ali</i> Organisation: <i>National Grid</i> Telephone Number: <i>01926 655980</i> Email address: shafqat.r.ali@uk.ngrid.com	
Details of Representative's Alternate: Name: <i>Rob Smith</i> Organisation: <i>National Grid.</i> Telephone Number: <i>01926 654076</i> Email address: robert.smith@uk.ngrid.com	
Attachments: Yes / No (delete as appropriate) (mandatory by originator) If Yes, Title and No. of Pages of Each Attachment:	

APPENDIX 2: INITIAL ASSESSMENT OF IMPACTS OF MODIFICATION PROPOSAL

An initial assessment has been undertaken by BSCCo in respect of all BSC systems, documentation and processes. The following have been identified as being potentially impacted by P220.

a) Impact on BSC Systems and Processes

BSC System / Process	Potential Impact of Proposed Modification
BMRS	<p>Changes will be required to the system interfaces that transmit data from the Transmission Company to the BMRA, in order to send and receive the new data items proposed by P220.</p> <p>Changes will also be required to the BMRS in order to make the new data items available to participants via the website and (for High Grade Service users) the TIBCO messaging service.</p>

b) Impact on BSC Agent Contractual Arrangements

None anticipated, since the provisions of new data items would be covered by the terms of the existing BMRA contract.

c) Impact on BSC Parties and Party Agents

Parties and non-Parties who currently use the BMRS High Grade Service would be able to receive the new P220 data items via the BMRS website and/or TIBCO messaging. Parties and non-Parties using the BMRS Low Grade Service would be able to access the new data via the public website.

d) Impact on Transmission Company

Changes to Transmission Company systems and processes might be required in order that the new data items could be submitted to the BMRA. Changes would also be required to National Grid's 'BMRS & SAA Interface Specification', which sets out the format in which data is provided by the Transmission Company to the BMRA.⁶

e) Impact on BSCCo

Area of Business	Potential Impact of Proposed Modification
BM Unit registration	<p>There would be no impact on BSCCo's working procedures if the identification of the fuel type of each generator BM Unit was undertaken by the Transmission Company prior to sending the new outturn generation data to the BMRA.</p> <p>If BSCCo was required to identify the fuel type of BM Units, a one-off piece of analysis would need to be undertaken by BSCCo to identify the fuel type of all existing generator BM Units.</p>

⁶ The BMRA & SAA Interface Specification is not a BSC Configurable Item, but is owned by the Transmission Company and is published on the National Grid website at: <http://www.nationalgrid.com/uk/Electricity/Codes/gridcode/associateddocs/>.

f) Impact on Code

Code Section	Potential Impact of Proposed Modification
Section Q 'Balancing Mechanism Activities'	New provisions would be required to describe the new data items submitted by the Transmission Company to the BMRA, and the timings of these submissions.
Section V 'Reporting', Annex V-1 'Reports': Table 1 'BMRS'.	The new data items would need to be added to this table, which lists all data published on the BMRS along with the frequency and format of this data.
Annex X-1 'General Glossary'	New defined terms may need to be added to this section.
Annex X-2 'Technical Glossary'	The new data items would need to be defined in this section.

g) Impact on Code Subsidiary Documents

Document	Potential Impact of Proposed Modification
BMRA Service Description	Changes to the BMRA Service Description may be required to reflect the BMRA's receipt and publication of new data items under P220.
BSCP15 'BM Unit Registration'	There would be no impact on any BSCPs if the identification of the fuel type of each generator BM Unit was undertaken by the Transmission Company prior to sending the new outturn generation data to the BMRA. If BSCCo was required to identify the fuel type of BM Units, changes would be required to the BM Unit registration form in BSCP15 to request this information for new BM Unit registrations.

h) Impact on Core Industry Documents and Other Documents

No impact is anticipated on any Core Industry Documents as a result of P220 – since the Modification Proposal seeks to use terms which are either already defined in the BSC or the Grid Code, or which would be newly-defined in the BSC only.

i) Impact on Other Configurable Items

Document	Potential Impact of Proposed Modification
Logica Interface Definition and Design (IDD) Part 1	Changes to these documents may be required to reflect the BMRA's receipt and publication of new data items under P220.
Logica IDD Part 2	
BMRA Design Specification	
BMRA Manual System Specification	
BMRA Operating Services Manual	
BMRA System Specification	
BMRA User Requirements Specification (URS)	

j) Impact on BSCCo Memorandum and Articles of Association

No impact anticipated.

k) Impact on Governance and Regulatory Framework

No impact anticipated.

APPENDIX 3: COSTS AND TIMETABLE FOR PROGRESSION**ESTIMATED COSTS OF PROGRESSING MODIFICATION PROPOSAL⁷**

Meeting Cost	£1,750 (based on sharing one meeting with P219)
Legal/Expert Cost	Nil
Impact Assessment Cost	£12,000
ELEXON Resource	56 man days £16,170

⁷ Clarification of the meanings of the cost terms in this appendix can be found on the BSC Website at the following link:
http://www.elexon.co.uk/documents/Change_and_Implementation/Modifications_Process_-_Related_Documents/Clarification_of_Costs_in_Modification_Procedure_Reports.pdf

