

January 2002

**ASSESSMENT REPORT FOR
MODIFICATION PROPOSAL P48
Half Hourly Receipt And Publication
of BSAD**

Prepared by the Pricing Issues Modification Group
on behalf of the Balancing and Settlement Code
Panel

Document Reference	009MMU
Version no.	1.0
Issue	Final
Date of Issue	14 Feb 2002
Reason for Issue	Panel Approval
Author	ELEXON

I DOCUMENT CONTROL

a Authorities

Version	Date	Author	Signature	Change Reference
0.1	24/1/02	Trading Development		For Review
0.2	25/1/02	Trading Development		For Review
1.0	5/2/02	Trading Development		For Review

Version	Date	Reviewer	Signature	Responsibility
0.2	25/1/02	Pricing Issues Modification Group		For Review
1.0	8/2/02	Trading Strategy		For Panel Decision

b Distribution

Name	Organisation
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The Authority	
National Electricity Consumers Council	
Core Industry Document Owners	
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1 SUMMARY AND RECOMMENDATIONS

1.1 Recommendations

On the basis of the analysis, consultation and assessment undertaken in respect of this Modification Proposal during the Assessment Phase and the resultant findings of this report, the Modification Group recommends to the BSC Panel that:

- **Modification Proposal P48 should proceed to the Report Phase; and**
- **the Draft Modification Report should contain a recommendation to the Authority that the proposed modification be approved with an effective date of 1 April 2002.**

It should be noted that the software implementation will be achieved as part of the BSC System Release 2 implementation of Modification P8. The first phase, to be achieved by 1 April 2002, will allow the receipt of Balancing Services Adjustment Data (BSAD) and use it in the calculation of Indicative Energy Imbalance Prices. The second phase, scheduled for August 2002, will report the BSAD used within this calculation on the Balancing Mechanism Reporting System (BMRS).

1.2 Executive Summary

Modification Proposal P48 was raised by the Transmission Company on 1 November 2001. The Initial Written Assessment (IWA) was presented to the Panel at their meeting on 15 November 2001.

Modification Proposal P48 proposes that BSAD be sent to the Balancing Mechanism Reporting Agent (BMRA) on a half hourly basis. The Proposal also suggests that this data be published on the BMRS.

This receipt and publication of BSAD by the BMRA is in addition to existing obligations within Section Q of the BSC for the Transmission Company to send BSAD to the BMRA at the day-ahead and day-after stages.

The Transmission Company is currently working on the necessary changes to send BSAD to the BMRA by 1 April 2002. The necessary software changes to the BSC Systems will be put in place as part of the P8 Enduring Solution within Central Systems.

1.3 Rationale for Recommendations

Implementation of Modification Proposal P48 would allow a more accurate calculation of Indicative Energy Imbalance Prices on the BMRS and enable the most up-to-date BSAD to be published in a timely manner.

The Modification Group agreed that Modification Proposal P48 would better achieve the Applicable BSC Objectives set out in paragraph 3 of Condition C3 of the Transmission Licence as follows:

- (c) Promoting effective competition in the generation and supply of electricity, and (so far as consistent therewith) promoting such competition in the sale and purchase of electricity;

and

(d) Promoting efficiency in the implementation and administration of the balancing and settlement arrangements.

This view was supported by all the consultation responses.

2 INTRODUCTION

This Report has been prepared by ELEXON Ltd., on behalf of the Balancing and Settlement Code Panel ('the Panel'), in accordance with the terms of the Balancing and Settlement Code ('BSC'). The BSC is the legal document containing the rules of the balancing mechanism and imbalance settlement process and related governance provisions. ELEXON is the company that performs the role and functions of the BSCCo, as defined in the BSC.

An electronic copy of this document can be found on the BSC website (www.elexon.co.uk)

3 OVERVIEW OF MODIFICATION PROPOSAL P48 AND RELATED MODIFICATIONS

3.1 Background and Related Issues

3.1.1 Introduction

The BSC currently states that BSAD will be sent to the BMRA by the Transmission Company not later than 17:00 hours at the day-ahead stage, with a post-event update on the day next following the relevant Settlement Day (Section Q6.3.1 of the BSC). This means that any pre-Gate Closure actions undertaken by the Transmission Company after 17:00 at the day-ahead stage, which possibly have an impact on BSAD values, will not be included in the calculation of the Indicative Energy Imbalance Prices. The outcome of such actions is currently processed via a post-event update and does not feed into the imbalance price calculations until the Interim Information (II) Settlement Run.

Whilst Modification Proposal P48 proposes a change concerning the receipt and publication of BSAD, the publication aspect is already being implemented as part of the P8 Modification. Modification Proposal P48 depends on software changes being implemented for P8 under the BSC Systems Release 2 Project. Phase B of the BSC Systems Release 2 Project will be completed in March 2002 and the final phase of BSC Release 2 is scheduled for completion in August 2002. This project will deliver all the necessary software functionality required to implement Modification Proposal P48¹ within the Central Systems.

However, it should be noted that P48 is not formally part of the BSC Systems Release 2 Project.

3.1.2 Current Baseline of BSC Systems

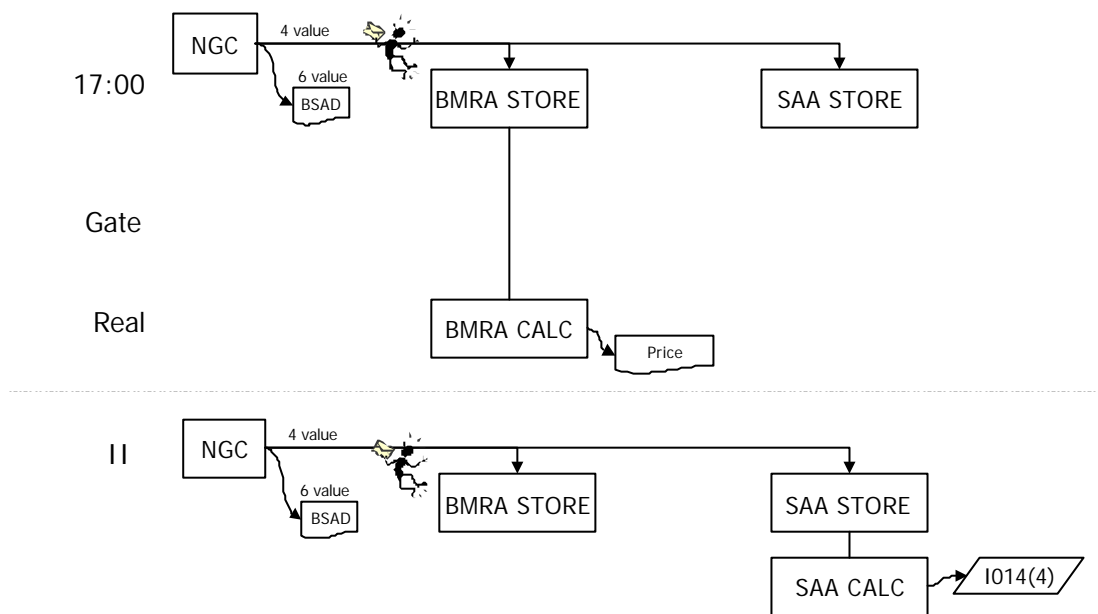
The first part of this section describes the current status of the BSC Systems prior to the implementation of the P8/P18A Enduring Solution. (The Interim Solution for P8/P18A is described at the end of this section.) The current SAA and BMRA systems receive 4-value BSAD from the Transmission Company in the form of an e-mail containing a spreadsheet. The data file is sent to the BMRA before 17:00 at the day-ahead stage, although the BMRA will always use the latest available version regardless of submission time. The full set of 6 BSAD variables are also published on the NGC website at the same time as the submission but are not currently used within the Central Systems. Day-ahead 4-value BSAD is stored by the BMRA and is then used in the calculation of Indicative Energy Imbalance Prices, once all Bid-Offer Acceptance data has been received following real time operation of the system. Prior to the II Run, NGC submit (4 value) and publish (6 value) a post-event update to the BSAD, which incorporates any NGC trades undertaken after 17:00 at the day-ahead stage. These values are stored and used in calculating Energy Imbalance Prices for the II run. The SAA I014 (Settlement Report) flow output from the II run includes only 4 of

¹ It should be noted that Modifications P8 and P18A have been implemented within the BSC since 25 September 2001. This implementation was initially achieved by an Interim Solution outside of BSC Systems. The BSC Systems Release 2 Project will include these Modifications within the BSC Systems.

the BSAD variables, i.e., excluding the price adjusters². The current baseline of the BSC Systems Software (not including the effect of P8 and P18A) is illustrated by Figure 1.1

In Figure 1.1, time is assumed to flow downwards starting at "17:00", which refers to the day previous to the Settlement Period in question. "Gate" refers to Gate Closure for that Settlement Period. "Real" refers to end of the real time Settlement Period and then "II" refers to the day of the Interim Information Settlement Run. Figure 1.1 denotes the Settlement Report containing 4 BSAD values by "I014(4)". The word "STORE" is used to denote the data store used by the relevant BSC Agent. The figure of the man holding an envelope denotes the e-mail from NGC and the manual nature of this interface. Figure 1.1 does not show the Interim Solution for P8/P18A.

Figure 1.1 The Current Central Systems Baseline



Both P8 and P18A were given legal effect on 25 September 2001 and have both been implemented via an interim solution³. Within this process, the Transmission Company send 6-variable BSAD to ELEXON who use these values to calculate P8/P18A compliant Energy Imbalance Prices. These are normally fed (by manipulating BSAD) into the settlement calculations in time for the SF run and do not affect the operation of the BMRS.

3.1.3 BSC Systems Release 2 (Phase B)

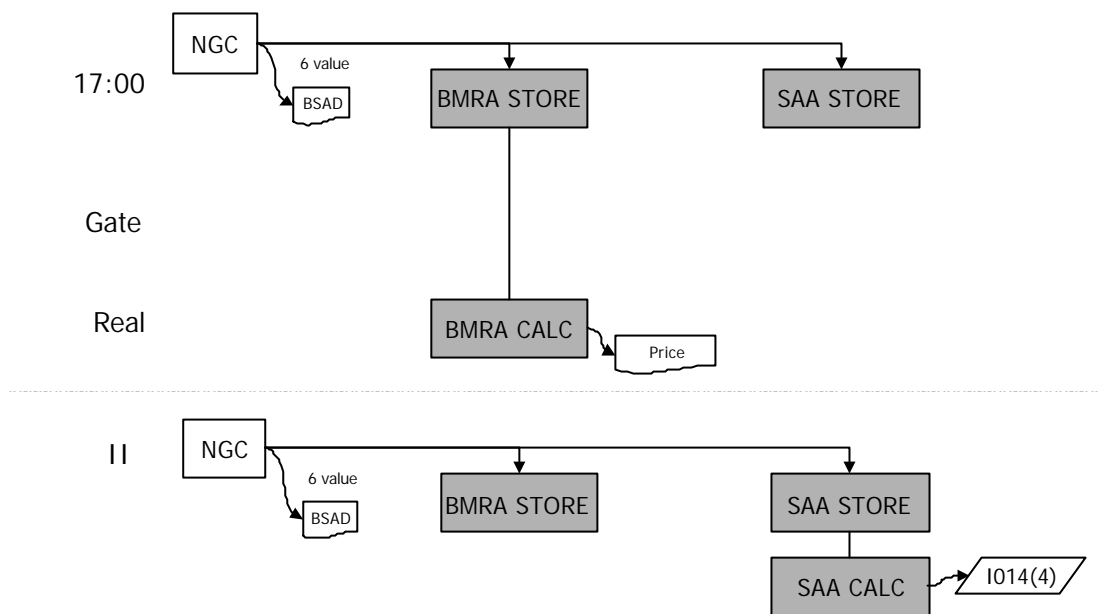
Modifications P8 and P18A are included within the scope of the implementation of the BSC Systems Release 2 Project. The implementation of BSC Systems Release 2 (Phase B) will automate BSAD transfer between the Transmission Company and Central Service Provider. The following diagram shows the effect of P8 within BSC Systems Release 2 Project Phase B which is scheduled for 27 March 2002. Figure 1.2 differs from Figure 1.1 by including the automated interface from NGC. It should also be noted that NGC will start sending 6-

² It should also be noted that as part of the P8/P18A Interim Solution, the SAA manipulate BSAD in time for the SF run, in order to calculate P8/P18A compliant Energy Imbalance Prices. Therefore, the SAA-I014 (4-value) BSAD output from the SF run does not correspond to the actual BSAD values reported by the Transmission Company.

³ This interim solution replaces workaround W024.

variable BSAD at this stage. IO14(4) represents the SAA Settlement Report which still contains only 4-value BSAD. As there is no change to the BSAD reporting at this stage, the NGC website will remain the definitive source.

Figure 1.2 BSC Systems Release 2 (Phase B)

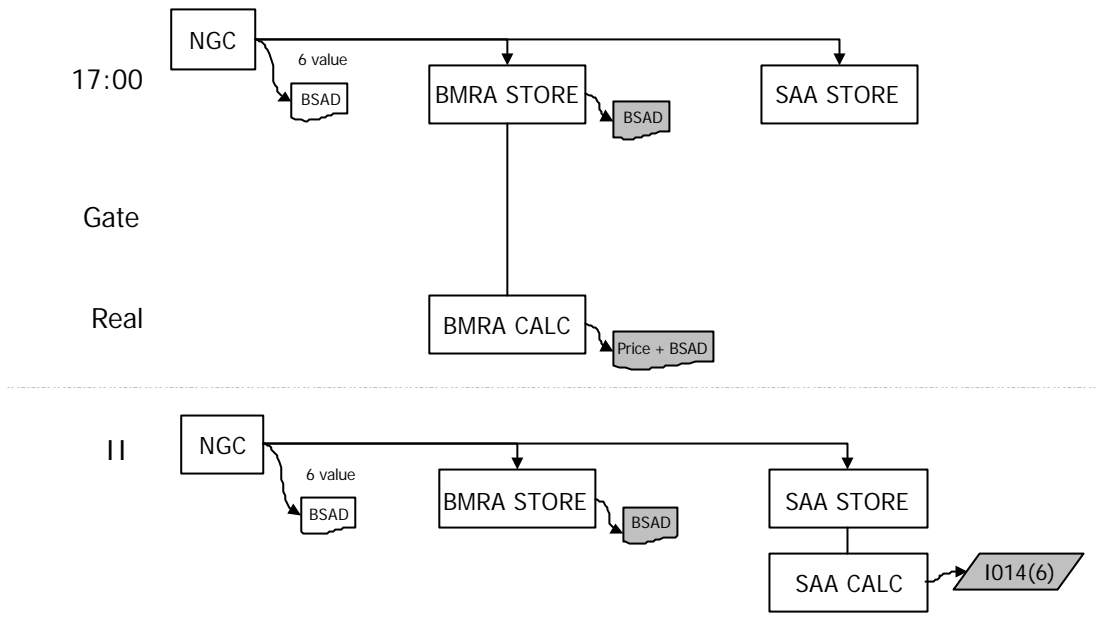


3.1.4 BSC Systems Release 2 (Final Release)

The final release of BSC Systems Release 2 will complete the implementation of P8 and is scheduled to be in place in August 2002. At this stage, the BMRS and the SAA service will start reporting BSAD values as shown on Figure 1.3. The shaded parts show the changes from Figure 1.2. Note that BSAD will be published in three different formats:

- "BSAD" – the latest data received. This will be overwritten when new data is received.
- "Price + BSAD" – the actual BSAD used in the calculation of indicative imbalance prices together with those imbalance prices.
- "IO14(6)" -- the actual BSAD used in the settlement run and hence used in the calculation of imbalance prices. By August 2002, the format of the SAA IO14 flow for the II run will also be updated to include all 6 BSAD variables.

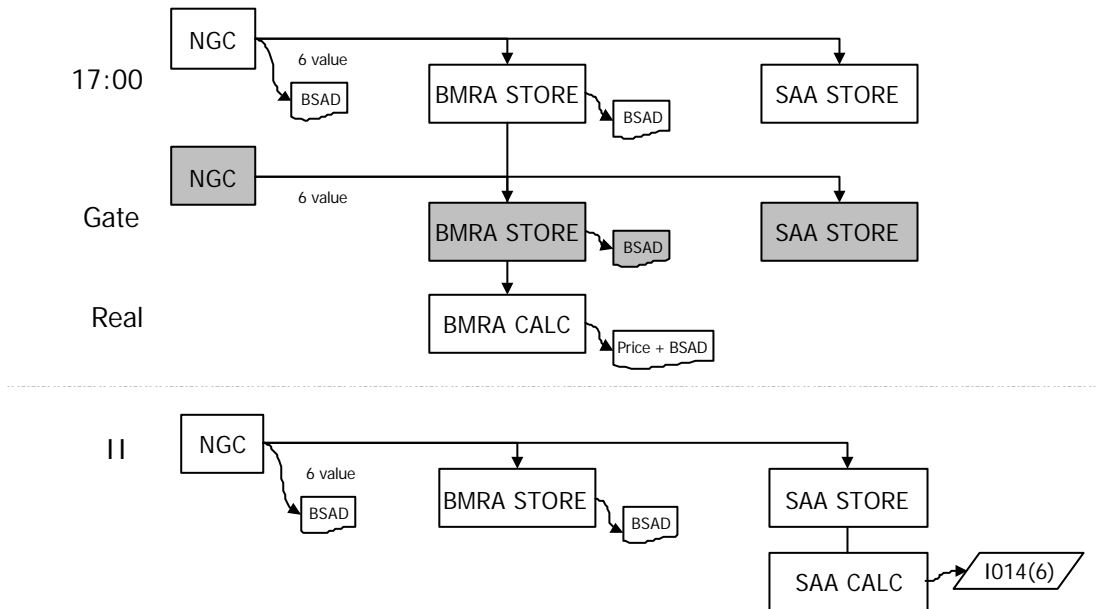
Figure 1.3 BSC Systems Release 2 (Full Release)



3.2 Effect of Implementing Modification Proposal P48

Modification Proposal P48 will not require any software changes. If BSAD is sent on a half hourly basis, it will be processed by Central Systems on a half hourly basis.

Figure 1.4 Effect of Implementing Modification Proposal P48



4 MODIFICATION GROUP DETAILS

This Assessment Report has been prepared by the Pricing Issues Modification Group. The following people attended the Modification Group:

Peter Davies	ELEXON (Chairman)
Justin Andrews	ELEXON
Richard Clarke	ELEXON (Secretary)
Emrah Cevik	ELEXON (Lead Analyst)
Gwilym Rowlands	ELEXON
Danielle Lane	British Gas Trading
Nick Elms	Enron
Martin Mate	British Energy
Chris Price	Powergen
Rekha Patel	Dynegy
Raoul Thulin	Innogy
David Hicks	Logica
Robert Barnett	Cambell Carr
Ben Willis	Innogy
Jerome Williams	Ofgem
Paul Jones	Powergen
Nick Sillito	NGC
Paul Plumptre	NGC
Steve Wilkin	St Clements
David Tolley	Innogy
Rob Hetherington	LE Group
Graham Oaxley	RWE Trading Direct
Adam Higginson	Ofgem
John Stewart	Campbell Carr
Richard Ford	St Clements

5 DESCRIPTION AND ASSESSMENT AGAINST THE APPLICABLE BSC OBJECTIVES

5.1 The Proposed Modification

A copy of the Modification Proposal can be found at Annex 4 to this Report.

Modification Proposal P48 proposes that a half-hourly update to the BSAD be sent by the Transmission Company to the BMRA and published on the BMRS as soon as possible after Gate Closure. It is the Proposer's intent that the Transmission Company will continue submitting and publishing BSAD at the day-ahead and day-following stages, in addition to the proposed half-hourly updates. The effect of P48 will also include the calculation and reporting of more accurate Indicative Energy Imbalance Prices on the BMRS using the latest available BSAD.

The obligation to send the half-hourly BSAD in a prompt manner will lie with the Transmission Company. The BSC Central Service Provider will use the latest available BSAD in the calculation of indicative Energy Imbalance Prices. It is also important to note that Modification Proposal P48 will have no effect on the imbalance prices calculated within SAA and hence used during the settlement process.

5.2 Applicable BSC Objectives

The Proposal suggested that Modification Proposal P48 would better achieve the Applicable BSC Objectives set out in paragraph 3 of Condition C3 of the Transmission Licence as follows:

(c) Promoting effective competition in the generation and supply of electricity, and (so far as consistent therewith) promoting such competition in the sale and purchase of electricity;

and

(d) Promoting efficiency in the implementation and administration of the balancing and settlement arrangements.

5.3 Assessment of P48 Against the Applicable BSC Objectives

The Pricing Issues Modification Group (PIMG) considered Modification Proposal P48 during two meetings on 21 November 2001 and 8 January 2002. In particular, the Modification Group considered whether the Modification Proposal would better facilitate the Applicable BSC Objectives. For reasons of efficiency, both of these meetings were combined with a meeting of the PIMG for other modifications.

The Modification Group felt that the improved accuracy of indicative Energy Imbalance Prices available to BSC Parties and the half hourly publication of BSAD would promote effective competition in the generation and supply of electricity. The Modification Group also felt that Modification Proposal P48 would promote efficiency in the administration of the balancing and settlement arrangements.

The Modification Group agreed that Modification Proposal P48 should be progressed to the Report Stage with a recommendation that the Modification be approved and that it be implemented on 1 April 2002.

5.4 Views of the Modification Group

At their meeting on 15 November 2001, the Panel requested that the Modification Group look at separating the obligation to send and receive BSAD from the obligation to publish it on the BMRS.

During the meeting on 21 November 2001, the Modification Group recognised that Modification Proposal P48 is dependent on the software changes already being implemented as part of the BSC Release 2 Project. This assumption was important to set the earliest P48 software implementation date to be 27 March 2002. (The Transmission Company expect to be able to provide the half-hourly data by 1 April 2002.)

Based on this information, the Modification Group identified the following implementation options for Modification P48.

- (1) The Implementation Date would be in August 2002. This was the simplest option in terms of getting the processes in place because BSC Systems Release 2 is expected to be fully delivered by August 2002. Until this date, the BMRS would continue calculating Indicative Energy Imbalance Prices using day-ahead BSAD whilst the SAA would settle to day-after values.
- (2) The Implementation Date would be 1 April 2002. An Interim Solution to report BSAD would be developed until the BSC Systems Release 2 solution is fully in place in August 2002. This option would require the establishment of a real-time BSAD publishing system only needed for approximately 6 months.
- (3) The Implementation Date would be 1 April 2002 for the submission of BSAD and its use within the calculation of Indicative Energy Imbalance Prices. The implementation of the functionality to publish the BSAD used within these calculations will not be undertaken until August 2002. This option was raised in accordance with the Panel recommendation to separate receipt and publication of BSAD. This option is consistent with the early implementation of P48 enabling the calculation of Indicative Energy Imbalance Prices to utilise the most recent BSAD values.

It was also recognised that none of these options would alter the imbalance prices calculated within SAA and hence used during settlement.

It was the Modification Group view that an Alternative Modification was not necessary. The Modification Group unanimously recommended option 3 as the most appropriate option for implementing Modification Proposal P48.

It was also noted that Modification Proposal P48 is not part of the BSC System Release 2 Project. Hence, given the time-scales involved in the modification process, an Implementation Date of 1 April 2002 could be considered optimistic even if all software changes may be available in March 2002.

Following the Modification Group meeting, the P48 Consultation Paper and Requirements Specification were revised and subsequently issued for Detailed Level Impact Assessment

(DLIA) and consultation to Parties, Party Agents and the BSC Central Service Agent on 14 December 2001. A consultation was issued on 11 January 2002.

5.5 BSC Central Service Agent (Central Service Provider) Detailed Level Impact Assessment

The BSC Central Agent Service Agent DLIA was received on 7 January 2002 and is contained in Annex 2. The key points to note from this DLIA are that:

- the software implementation of Modification P8 under the BSC Systems Release 2 Project will deliver the required software changes to support Modification Proposal P48. Hence, the calculation of Indicative Energy Imbalance Prices could include the effect of P48 from 27 March 2002 with the correct reporting of the BSAD following in the full release in August 2002. There will be no additional charge for this software functionality.
- The DLIA does not consider, however, any additional costs which may be incurred to test the business processes for robustness under the increased volume and frequency of BSAD flows envisioned by Modification Proposal P48.

5.6 Additional Views of the Modification Group

At the Modification Group meeting on 8 January 2002, ELEXON explained the content of the Central Service Provider DLIA, in particular the option to bring forward one aspect of the BSAD reporting into the March 2002 release. ELEXON explained that Central Service Provider were attempting to be helpful by identifying functionality that might be of use to Parties, however that this was a limited solution and there were further implications to be considered.

The group recognised:

- that the option of bringing forward delivery of one small component of the reporting solution was confusing and would probably be of limited value to Parties;
- that there would be a potential impact on the BSC Systems Release 2 Project and additional work would be necessary to determine the true impact;
- that if the additional screen were to be included in the March release, then a decision would be required by 15 Jan 2002.

As this Modification had not been approved, it was not considered appropriate to take up this option.

5.7 Alternative Modification

No Alternative Modification was identified by the Modification Group.

6 IMPACT ON BSC AND BSCCO DOCUMENTATION

6.1 BSC

Modification Proposal P48 will require changes to section Q paragraph 6 and section V paragraph 2. Draft Legal text is attached as Annex 1 to this document.

6.2 Code Subsidiary Documents

There will be changes to the NETA Data File Catalogue and the Reporting Catalogue. Changes will also be required to the BMRA Service Description and the BMRS URS. All of these changes will already have been included within the scope of the BSC Systems Release 2 Project.

7 IMPACT ON BSC SYSTEMS

The only changes to BSC Systems are to allow the BMRA to receive half-hourly BSAD and use this data in the calculation of Indicative Energy Imbalance Prices.

As there are no software changes, there will be no software development costs. However, additional business process testing will be required and conducted by the Central Service Provider at a cost of £7,800.

There will be no impact on the Energy Imbalance Prices used during settlement. However, BSC Systems will need to cope with the increased volume and frequency of BSAD flows envisioned by Modification Proposal P48.

BSAD will be reported half-hourly in addition to the day-ahead and day-following stages.

8 IMPACT ON CORE INDUSTRY DOCUMENTS AND SUPPORTING ARRANGEMENTS

The only impact on Core Industry Documents identified is to the BSAD Methodology Statement, which is being progressed by the Transmission Company. It is anticipated that these changes will be in place by 1 April 2002.

9 IMPACT ON ELEXON

ELEXON will receive a copy of the BSAD directly from NGC for use with their TOMAS system. This is not a core BSC flow and will be formalised in the SPICE Sub-Project ELEXON Interface Specification. Consideration of any requirement for ELEXON to receive the half hourly BSAD updates will be addressed outside this modification proposal.

The BSC Systems Release 2 Project feel that the increased volume and frequency of BSAD-flows under P48 would need to be tested before Implementation. The testing cost from the Central Service Provider is £7,800⁴.

There will be no impact on the Performance Management Department apart from the impacted products maintained by the Design Authority. These include the NETA Data File

⁴ As referred to in Section 7.

Catalogue, the Reporting Catalogue and the Business Process Model. Changes will also be required to the BMRA Service Description and the BMRS URS.

10 IMPACT ON PARTIES AND PARTY AGENTS

10.1 Parties

Parties will need to be aware of the volume and frequency of the BSAD flow on the TIBCO link. As the flow is only introduced in August 2002 and is documented in the Central Service Provider Interface Definition and Design (IDD) for BSC Systems Release 2 (Final Release), this should not be an issue.

10.2 Legal Issues

Modification Proposal P48 asks for the receipt and publication of half hourly BSAD. However, as Modification P8 will already publish all received BSAD, then Modification Proposal P48 needs only to concern itself with the receipt and use of half hourly BSAD in the calculation of Indicative Energy Imbalance Prices. All handling of BSAD publication falls within the scope of the BSC Systems Release 2 Project.

Modification Proposal P48 originally asked to remove section Q6.3.4 from the BSC. It is proposed that this part of the Code is removed later by a housekeeping modification already planned within the BSC Systems Release 2 Project. It is considered that it would not be appropriate to make this change when the first phase of the enduring software implementation of Modification Proposal P8 becomes effective (27 March 2002), since the capability to display BSAD on the BMRS will not be delivered until the full release of the BSC Systems Release 2 in August 2002.

It must be noted that BSCCo will not publish Indicative BSAD on a half hourly basis, but will continue to publish BSAD on a daily basis. It is also important to note that there will be a minor inconsistency between the rest of the BSC and Table-1 in BSC Section V Annex-1. It is considered appropriate that this inconsistency be removed at a later date by the housekeeping modification planned within the BSC Systems Release 2 Project.

11 SUMMARY OF REPRESENTATIONS

This section summarises the responses to the consultation and impact assessment. Copies of the detailed responses can be found on the ELEXON website (www.elexon.co.uk).

11 responses representing 43 Parties were received to the consultation. All 11 respondents supported the implementation of the Modification Proposal, including the implementation option identified by the Modification Group. This support was on the basis that the Modification Proposal would promote effective competition in the generation and supply of electricity, and (so far as consistent therewith) promote such competition in the sale and purchase of electricity, and that the Modification Proposal would promote efficiency in the implementation and administration of the balancing and settlement arrangements.

12 SUMMARY OF TRANSMISSION COMPANY ANALYSIS

The implementation of Modification Proposal P48 will impact on Transmission Company systems and processes. National Grid is currently working on the necessary changes to their systems associated with this modification proposal. They have made a commitment under the Procurement Guidelines (as established under Special Condition AA4 of the National Grid Company Transmission Licence) to provide Balancing Services Adjustment Data on a half-hourly basis from 1 April 2002.

National Grid currently plan to consult on a revision to the BSAD Methodology Statement to formalise the additional submission of BSAD on a half hourly basis shortly after Gate Closure. They anticipate this change being in effect for 1 April 2002.

The working assumption is that all necessary changes will be in place for this date.

13 PROJECT BRIEF

A Project Brief will be presented to the BSC Release 2 Project.

ANNEX 1 – PROPOSED TEXT TO MODIFY THE BSC

Section Q ‘Balancing Mechanism Activities’

Q6.3.1 (a) subject to paragraph 6.3.4, to the BMRA:

(i) (in relation to all such Settlement Periods) not later than 17:00 hours on the preceding day, and

(ii) (in relation to each such Settlement Period) as soon as reasonably practicable after Gate Closure for, and in any event not later than end of, such Settlement Period the Transmission Company's estimate (at the relevant time of sending) of Balancing Services Adjustment Data as described in paragraph 6.3.2;

Section V ‘Balancing Mechanism Activities’

V2.6.3 (b) Indicative Balancing Services Adjustment Data are the data submitted by the Transmission Company to the BMRA pursuant to Section Q6.3.1(a) in respect of each Settlement Period in a Settlement Day.

ANNEX 2 – BSC CENTRAL SERVICE PROVIDER IMPACT ASSESSMENT

NETA Change Form	MP/CP/TP No: P48
	Logica reference: ICR166
Title: Half Hourly Receipt and Publication of BSAD	
Identified by: ELEXON	Date received: 1/11/2001

Statement of requirement
Baseline affected:
Assumed changes over baseline:
Description of Change: See attached original P48
Proposed solution: See attached original P48
Justification for Change: See attached original P48
Proposed changes to Service Levels:
Proposed changes to the Agreement:
Attachments/references: P48

To be completed by Logica			
	High Level Impact Assessment	Detailed Level Impact Assessment	Quotation
Tick which stage is being completed:		✓	
Signed by Central Service Provider Contract Manager:			
Date:		7/1/2002	
HLIA category: Small/Medium/Large/Other		Price for DLIA:	
If this is a Quotation, are consequential modifications needed to the DLIA? Yes/No.			

Logica's proposal
Logica's understanding of the requirement: In addition to receiving a whole day of BSAD at 17:00 day ahead and 11:00 day after, P48 will also provide updates for single periods between gate closure and end of period.

<p>Logica's proposed design solution: No software changes are required for the receipt of BSAD files containing single period data as the mechanism implemented for P8 can be used. There is therefore no charge for this functionality.</p> <p>On the issue of BSAD publication, Logica proposes bringing forward deployment of the new BSAD screen on the Low Grade BMRA service from the Full Release to the Phase B Patch. The additional cost of this makes up the price for this change. For this deployment to be brought forward Logica must receive authorisation by 14th January 2002.</p>											
<p>Consequential changes to Project Deliverables: BMRA, SAA</p>											
<p>Consequential impact on BSC Service Users or Other Service Providers:</p>											
<p>Testing strategy: The testing for the BMRA screen can be done independently of the existing Phase B testing. The testing would perform the following tasks:</p> <ul style="list-style-type: none"> • Load a full day's data • Confirm data is visible on the low grade service • Load a BSAD file containing a single period for that day • Refresh the low grade display and confirm the new data is visible <p>Testing will only be performed on our own system with external interfaces being simulated as necessary. No allowance has been made for testing with external systems. No allowance has been made for ELEXON to witness testing.</p>											
<p>Management plan for developing the Change:</p>											
<p>Project plan for developing the Change: It is proposed that this change will be included as part of the Phase B Patch.</p>											
<p>Method of deployment:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 40%;">Patch</td> <td>Is a planned outage required? Yes</td> </tr> </table>			Patch	Is a planned outage required? Yes							
Patch	Is a planned outage required? Yes										
<p>Price for Design and Build:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 40%;">Item description:</th> <th style="width: 20%;">Price</th> <th style="width: 40%;">Type of price:</th> </tr> </thead> <tbody> <tr> <td></td> <td>£11,021</td> <td>Fixed</td> </tr> </tbody> </table>			Item description:	Price	Type of price:		£11,021	Fixed			
Item description:	Price	Type of price:									
	£11,021	Fixed									
<p>Price for Operate and Maintain:</p> <table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 40%;">Item description:</th> <th style="width: 20%;">Price</th> <th style="width: 40%;">Type of price:</th> </tr> </thead> <tbody> <tr> <td>Operate</td> <td>£0</td> <td>Fixed</td> </tr> <tr> <td>Maintain</td> <td>£0</td> <td>Fixed</td> </tr> </tbody> </table>			Item description:	Price	Type of price:	Operate	£0	Fixed	Maintain	£0	Fixed
Item description:	Price	Type of price:									
Operate	£0	Fixed									
Maintain	£0	Fixed									
<p>If this is a DLIA or Quotation, is a price breakdown in the agreed format attached? Yes</p>											
<p>Terms attaching to the offer</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 50%;">Validity period of offer: 7 days</td> <td>Type of offer: Indicative</td> </tr> </table>			Validity period of offer: 7 days	Type of offer: Indicative							
Validity period of offer: 7 days	Type of offer: Indicative										

Assumed start date: 15/1/2002. Logica must receive authorisation to start work by this date otherwise the change cannot be included in the Phase B Patch.
Payment milestones: Logica will invoice 30% on receipt of CN or authorised start of work, 50% on completion of acceptance tests, 20% on deployment or one month after completion of acceptance tests, whichever is sooner.
Document turnaround time: 5 days
Impact on Service Levels: None
Impact on performance of the System:
Other terms:
If this is a Quotation, is a draft contract amendment attached? No
Responsibilities of ELEXON: Logica must receive authorisation to start work by 15 th January 2002 otherwise the change cannot be included in the Phase B Patch
Assumptions made by Logica: <ul style="list-style-type: none">• There will be no BMRA documentation updates to reflect this change ahead of the Full Release 2 documentation set.• Any problems with BSAD files which require manual investigation or intervention will only be dealt with in normal office hours.• Price does not include provision for indexation of daily rates with effect from 1st April 2002.• For all formal documentation which is subject to review, Logica shall provide one draft issue and a maximum of 5 working days has been allowed for ELEXON to review and comment on the updates. No allowance is included for addressing comments from ELEXON and only one iteration of all reviewed documents has been included in the price.• Within reasonable levels, ELEXON will make available appropriate staff to assist Logica during the development of this change.
Options and alternatives:

ANNEX 3 – TRANSMISSION COMPANY ANALYSIS

The implementation of Modification Proposal P48 will impact on our systems and processes. National Grid is currently working on the necessary changes to our systems associated with this modification. We have made a commitment under the Procurement Guidelines (as established under Special Condition AA4 of the National Grid Company Transmission Licence) to provide Balancing Services Adjustment Data on a half-hourly basis from 1 April 2002.

Our working assumption is that necessary changes will be in place for this date.

Name: Phil Lawton
Organisation: National Grid
Response provided on behalf of: National Grid
Date: 09/01/02

ANNEX 4 – MODIFICATION PROPOSAL P48

Modification Proposal	MP No: 48 <i>(mandatory by BSCCo)</i>
Title of Modification Proposal <i>(mandatory by proposer):</i> Half Hourly Receipt And Publication Of BSAD	
Submission Date <i>(mandatory by proposer):</i> 01 November 2001	
<p>Description of Proposed Modification <i>(mandatory by proposer):</i></p> <p>The BSC currently states that the Balancing Services Adjustment Data (BSAD) shall be sent to the BMRA by the Transmission Company not later than 17:00 hours at the day-ahead stage (section Q6.3.1), with a post-event update.</p> <p>This modification proposes that an update to the BSAD be sent by the Transmission Company as soon as possible after Gate Closure to allow the most up to date data to be published on the BMRS, and included in the calculation of the Indicative System Buy Price and Indicative System Sell Price.</p> <p>Note that BSAD is currently published on the National Grid website at the day ahead stage. It is National Grid's view that a move to half hourly submission of BSAD at gate closure should be accompanied by the data being published on the BMRS.</p> <p>National Grid expects to be in a position to provide this half hourly update of BSAD by 1 April 2002.</p>	
<p>Description of Issue or Defect that Modification Proposal Seeks to Address <i>(mandatory by proposer):</i></p> <p>Currently the BSAD is sent by the Transmission Company to the BMRA not later than 17:00 hours at the day ahead stage (Q6.3.1). This means that any pre-gate closure actions undertaken by the Transmission Company after 17:00 at the day ahead stage which have an impact on BSAD will not be included in the calculation of the Indicative System Buy Price and Indicative System Sell Price. The outcome of these actions is currently included via a post-event submission of BSAD, and so does not feed into the calculation of System Sell Price and System Buy Price until the Interim Information Run.</p> <p>This modification will ensure that the most up to date BSAD is published on the BMRS and included in the calculation of the Indicative System Buy Price and Indicative System Sell Price.</p>	
<p>Impact on Code <i>(optional by proposer):</i></p> <p>Revision will be required to section Q6.3.1 and Q6.3.4 of the code.</p> <p>Q6.3.1 should be amended to state that in respect of each Settlement Period the Transmission Company shall send an estimate of the BSAD to the BMRA as soon as possible after Gate Closure</p> <p>Q6.3.4 should be removed</p>	
<p>Impact on Core Industry Documents <i>(optional by proposer):</i></p> <p>None identified</p>	

Modification Proposal	MP No: 48 <i>(mandatory by BSCCo)</i>
Impact on BSC Systems and Other Relevant Systems and Processes Used by Parties <i>(optional by proposer):</i>	
This modification proposal will require changes to the BMRA	
Impact on other Configurable Items <i>(optional by proposer):</i>	
Justification for Proposed Modification with Reference to Applicable BSC Objectives <i>(mandatory by proposer):</i>	
The modification will better meet the following Applicable BSC Objectives:	
(c) Promoting effective competition in the generation and supply of electricity, and (so far as consistent therewith) promoting such competition in the sale and purchase of electricity;	
(d) Promoting efficiency in the implementation and administration of the balancing and settlement arrangements.	
This modification proposal will better meet these two objectives by ensuring that the most up to date information is made available to BSC Parties via publication on the BMRS, and ensure that this information is reflected in the calculation of Indicative System Buy Price and Indicative System Sell Price.	
Details of Proposer:	
Name: John Greasley	
Organisation: National Grid	
Telephone Number: 02476 423190	
Email Address: john.greasley@uk.ngrid.com	
Details of Proposer's Representative:	
Name: John Greasley	
Organisation: National Grid	
Telephone Number: 02476 423190	
Email Address: john.greasley@uk.ngrid.com	
Details of Representative's Alternate:	
Name: Heather Goodwin	
Organisation: National Grid	
Telephone Number: 02476 423122	
Email Address: heather.goodwin@uk.ngrid.com	

Modification Proposal	MP No: 48 <i>(mandatory by BSCCo)</i>
If Yes, Title and No. of Pages of Each Attachment:	