

Prepared by: P222 Modification Group

## REQUIREMENTS SPECIFICATION for Modification Proposal P222 'Provision of EAC and AA data to Distributors'

**Date of Issue:** 12 March 2008  
**Reason for Issue:** For Review

**Document Reference:** P222AS  
**Version Number:** 1.0

There are 3 potential solutions to address the issue identified in P222. Two of these are BSC solutions and one is a non-BSC solution. Additionally, the Group noted that Licensed Distribution System Operators (LDSOs) can currently obtain site specific consumption data by processing existing BSC flows, or by requesting data from Suppliers. Impacts from each solution, and the costs of the current processes available, are requested to enable the Group to quantify the benefits of a BSC solution.

**Proposed Modification P222 (BSC Solution)** seeks to provide LDSOs with Estimated Annual Consumption (EAC) and Annualised Advance (AA) information through placing a specific obligation on the Supplier (via their Non Half Hourly Data Collector) to send a D0019 'Metering System EAC/AA data' flow at the same time as it is sent to the Supplier and Non Half Hourly Data Aggregator.

**Potential Alternative Modification P222 (BSC Solution)** seeks to provide the LDSOs with a snapshot of Estimated Annual Consumption through placing a specific obligation on the Supplier (via their Non Half Hourly Data Aggregator) to send a new data flow that is based on a new data flow. This would be sent quarterly.

**A potential non-BSC Solution** requires a change to DCUSA to enable LDSOs to specifically request D0019-equivalent data, and to be able to receive this in a consistent format from Suppliers.

**Currently** LDSOs can obtain 'D0019-equivalent data' through 2 methods that would involve no change to the BSC or DCUSA. The first method is by processing data from existing BSC flows to derive a value similar to that contained within the D0019. The second method would be to use bi-lateral agreements and LDSOs good working relations with Suppliers, to obtain D0019-equivalent data on an ad-hoc basis (or as agreed in any bi-lateral agreement).

### BACKGROUND AND PURPOSE OF IMPACT ASSESSMENT

The BSC Panel considered P222 at its meeting on 14 February 2008 and submitted the proposal to a 3-month Assessment Procedure to be conducted by the P222 Modification Group (formed from members of the Volume Allocation Standing Modification Group). The P222 Modification Group ('the Group') has met twice to date on 21 February and 10 March 2008 and agreed the requirements for the Proposed Modification and one potential BSC Alternative Modification. Additionally, there is one non-BSC solution, and descriptions of the two existing methods of how a LDSO could obtain site specific consumption data, for which costs are requested. This document sets out the requirements agreed by the Group, and supports impact assessment by BSC Agents, BSC Parties, the Transmission Company, MRASCo<sup>1</sup>, the Data Transfer Service Provider<sup>2</sup> and BSCCo.<sup>3</sup>

Any queries regarding the impact assessment requirements should be addressed to Chris Stewart (020 7380 4309), e-mail address [chris.stewart@elxon.co.uk](mailto:chris.stewart@elxon.co.uk).

<sup>1</sup> The Master Registration Agreement Company (Gemserv).

<sup>2</sup> Electralink provides this service and have already provided impact costs to the P222 Group.

<sup>3</sup> The Balancing and Settlement Code Company (ELEXON).

## CONTENTS TABLE

<b>Summary of Impacted Parties and Documents.....</b>	<b>3</b>
<b>1 Introduction .....</b>	<b>4</b>
<b>2 Proposed Modification Solution .....</b>	<b>6</b>
2.1 Requirement 1 – Identify Relevant LDSOs .....	6
2.2 Requirement 2 – Sending the D0019 .....	7
2.3 Impact Assessment .....	7
<b>3 Potential Alternative Modification Solution.....</b>	<b>7</b>
3.1 Requirement 1 – Identify Relevant LDSOs .....	8
3.2 Requirement 2 – Sending the new flow .....	8
3.3 Impact Assessment .....	9
<b>4 Non-BSC solution: DCUSA change .....</b>	<b>9</b>
4.1 Impact Assessment .....	9
<b>5 No BSC or dcusa change .....</b>	<b>10</b>
5.1 LDSO processing current BSC flows.....	10
5.2 Supplier/Distributor agreements .....	11
<b>6 Estimated Impact of Modification on Systems, Processes and Documentation.....</b>	<b>12</b>
<b>7 Development Process.....</b>	<b>14</b>
<b>8 Terms Used in this Document .....</b>	<b>15</b>
<b>9 Document Control .....</b>	<b>16</b>
9.1 Authorities .....	16
9.2 References.....	16
<b>Appendix 1: D0019 - Metering System EAC/AA Data .....</b>	<b>17</b>
<b>Appendix 2: Data items for new data flow: Potential Alternative Modification .....</b>	<b>19</b>

### **Intellectual Property Rights, Copyright and Disclaimer**

The copyright and other intellectual property rights in this document are vested in ELEXON or appear with the consent of the copyright owner. These materials are made available for you for the purposes of your participation in the electricity industry. If you have an interest in the electricity industry, you may view, download, copy, distribute, modify, transmit, publish, sell or creative derivative works (in whatever format) from this document or in other cases use for personal academic or other non-commercial purposes. All copyright and other proprietary notices contained in the document must be retained on any copy you make.

All other rights of the copyright owner not expressly dealt with above are reserved.

No representation, warranty or guarantee is made that the information in this document is accurate or complete. While care is taken in the collection and provision of this information, ELEXON Limited shall not be liable for any errors, omissions, misstatements or mistakes in any information or damages resulting from the use of this information or action take in reliance on it.

## SUMMARY OF IMPACTED PARTIES AND DOCUMENTS

As far as the Modification Group has been able to assess, the following parties/documents would be impacted by P222.

Please note that this table represents a summary of the full initial impact assessment contained in Section 6.

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

# 1 INTRODUCTION

There are 3 potential solutions to address the issue identified in P222. Two of these are BSC solutions and one is a non-BSC solution. The Modification Group (the 'Group') wish to consider the costs of the potential non-BSC solution together with the cost of the current processes available in order to ensure that there is not a more cost effective solution available to the industry<sup>4</sup>. Therefore, the five solutions that require Impact Assessment are:

1. Proposed Modification (BSC): Distributor System Operators (LDSOs) receive D0019 flows;
2. Potential Alternative Modification (BSC): LDSOs receive a new flow based on non-aggregated D0041 flows;
3. Potential Non-BSC Alternative 1: A DCUSA change under which Suppliers would provide LDSOs with D0019-equivalent data; and
4. No BSC or DCUSA change:
  - a. LDSOs to obtain site specific consumption data from processing existing BSC flows; and
  - b. Rely on existing Supplier/LDSO relations and/or bi-lateral agreements to provide (BSC Solution 1 or 2) equivalent data on an ad-hoc basis.

It should be noted that as part of a BSC Modification, it is not usual practice to seek to establish costs relating to non-BSC solutions (Solutions 3, 4a, and 4b). However, due the particular circumstances relating to this Proposed Modification, the BSC Panel has instructed the Modification Group, where possible, to try and establish these costs. The BSC Panel is of the opinion that when the Modification comes before them for a recommendation, this information will assist them to satisfy themselves that a BSC solution is one that is the least cost to the industry.

The particular circumstances driving this non-standard approach largely relate to the rejection of Modification P043 'Provision of Annualised Advance (AA) and Estimated Annual Consumption (EAC) Data', which is identical to the Proposed Modification, and the comments made by Ofgem as part of its P043 decision. Ofgem, within its Decision letter, noted; that there were alternative routes outside of the BSC to resolve the issue and stated that in their view the proposal "best resides outside the BSC"; that the proposal may lead to additional overall costs and it was questionable whether the changes required under the proposal warranted the expense that would be incurred under changes to the BSC. In short, there was an indication that there may be other non-BSC solutions that could be at lower cost to the industry.

It is important to clarify that the remit of the Modification Group remains an assessment of the BSC solutions against the Applicable BSC Objectives, in particular, whether the BSC solutions better facilitate the BSC Objectives, however any cost information obtained will help inform the Panel and the Authority.

---

<sup>4</sup> The Terms of Reference for the Group included a requirement to consider any alternative solutions which fell outside the BSC.

Table 1 below highlights who we expect to be impacted from each of the three potential solutions and the 2 no central change options. It is requested that time and costs are provided by the Parties identified in the table for each of the solutions that they would be impacted by.

Note that the current D0019 flow structure and the data items for the new data flow are contained in Appendices 1 and 2 respectively.

**Table 1. Parties impacted by potential solutions to P222 defect**

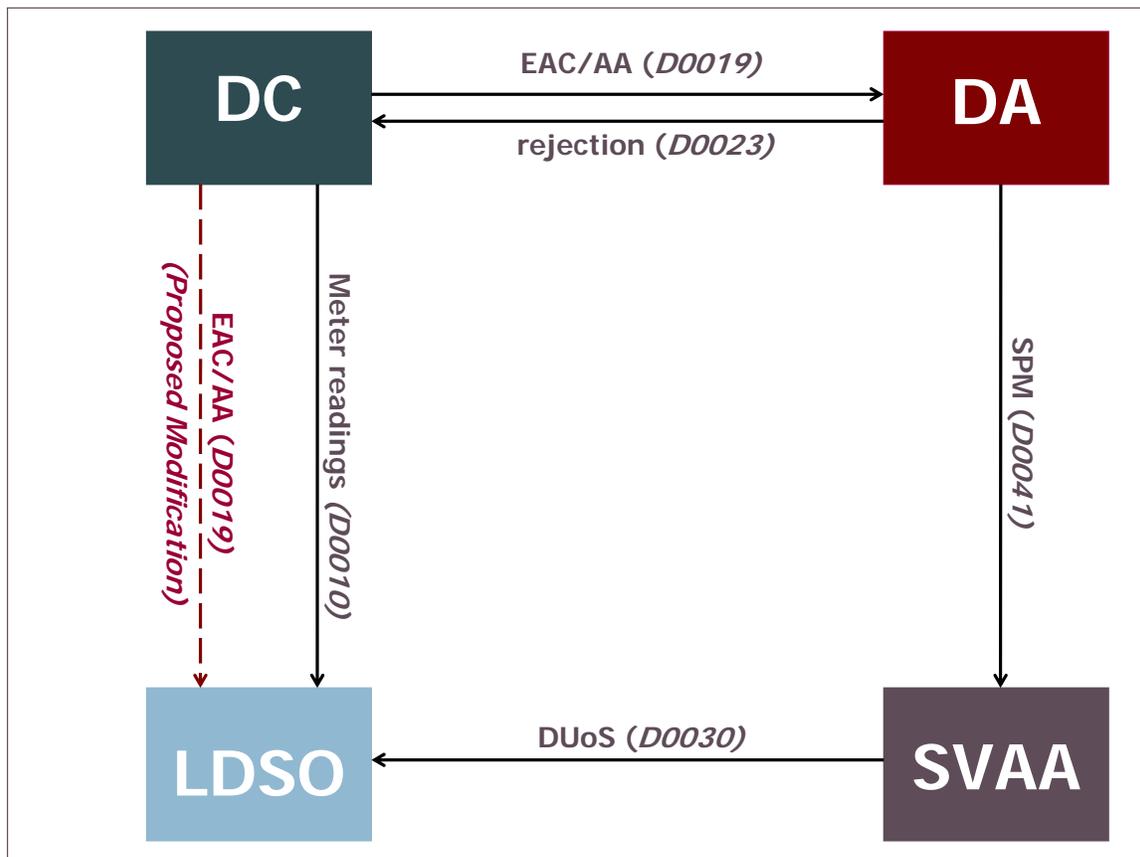
<b>Party</b>	<b>1. Proposed Modification (BSC)</b>	<b>2. Potential Alternative Modification (BSC)</b>	<b>3. Non-BSC Alternative – Modify DCUSA</b>	<b>4. No BSC/DCUSA change (a and b)</b>
<b>NHHDA</b>		✓		
<b>NHHDC</b>	✓			
<b>Suppliers</b>	✓	✓	✓	✓
<b>LDSOs</b>	✓	✓	✓	✓
<b>BSCCo</b>	✓	✓		
<b>MRASCo</b>	✓	✓		

## 2 PROPOSED MODIFICATION SOLUTION

P222 seeks to ensure that LDSOs receive EAC or AA data for Metering Systems located within their Distribution Network. It is proposed that this information be provided by the Non Half Hourly Data Collector (NHHDC) sending a D0019 flow to the relevant LDSO only. This can be seen as the red dotted line in Figure 1 below.

P222 proposes that the receipt of the D0019 flow would provide the required site specific consumption data for Non Half Hourly metered sites.

**Figure 1. Proposed modification - D0019 flow from NHHDC to LDSO**



### 2.1 Requirement 1 – Identify Relevant LDSOs

The NHHDC would identify relevant LDSOs to receive the D0019 flow. This would be achieved by using the LDSO ID contained in the Meter Point Administrator Number (MPAN). LDSOs should only receive D0019 flows where their LDSO ID appears in these first two digits of the core MPAN.

**If any NHHDC can provide a more cost effective means of identifying which LDSO should receive a D0019 flow, then please provide this along with your impact assessment.**

## 2.2 Requirement 2 – Sending the D0019

When the NHHDC sends D0019 flows to Suppliers and NHHDA, the NHHDC would be required to also send the D0019 data to the relevant LDSOs<sup>5</sup>. This flow would be sent across the Data Transfer Network (DTN).

This would require an update to the Data Transfer Catalogue (DTC) (Reference 1) and DTN. The DTC and DTN would require amendment to ensure it was clear that the LDSO is to be an additional recipient of the D0019 data.

**If it can be identified that there is a more cost effective means to provide the D0019 flow to LDSOs (for example, by reducing how often the D0019 flow is sent to weekly, monthly or quarterly) then please identify this along with your impact assessment.**

For the avoidance of doubt, the new flow from the NHHDC to the LDSO would be accepted by the LDSOs on an 'as is' basis, and there would be no formal process for the LDSO to query the accuracy of the data. There would be no additional obligations placed on Suppliers or NHHDCs in respect of this.

## 2.3 Impact Assessment

As part of this impact assessment it is specifically requested that, for the Proposed Solution:

- LDSOs confirm whether they would intend to use the D0019 data if it is sent to them;
- LDSOs confirm if the D0019 data will replace current processing of D0010 data (or any other data to derive D0019 equivalent information), or be used in addition to current D0010 processing;
- LDSOs confirm the expected costs to process the D0019 flows to the level they would intend to use this data;
- LDSOs confirm any savings that the D0019 will provide from reduced processing of D0010, D0149 and D0150s;
- NHHDCs confirm the costs to implement the solution (and provide any more cost effective solutions if these have been identified);
- NHHDCs and LDSOs confirm the time required to implement the solution; and
- NHHDCs to describe how they would implement the solution.

## 3 POTENTIAL ALTERNATIVE MODIFICATION SOLUTION

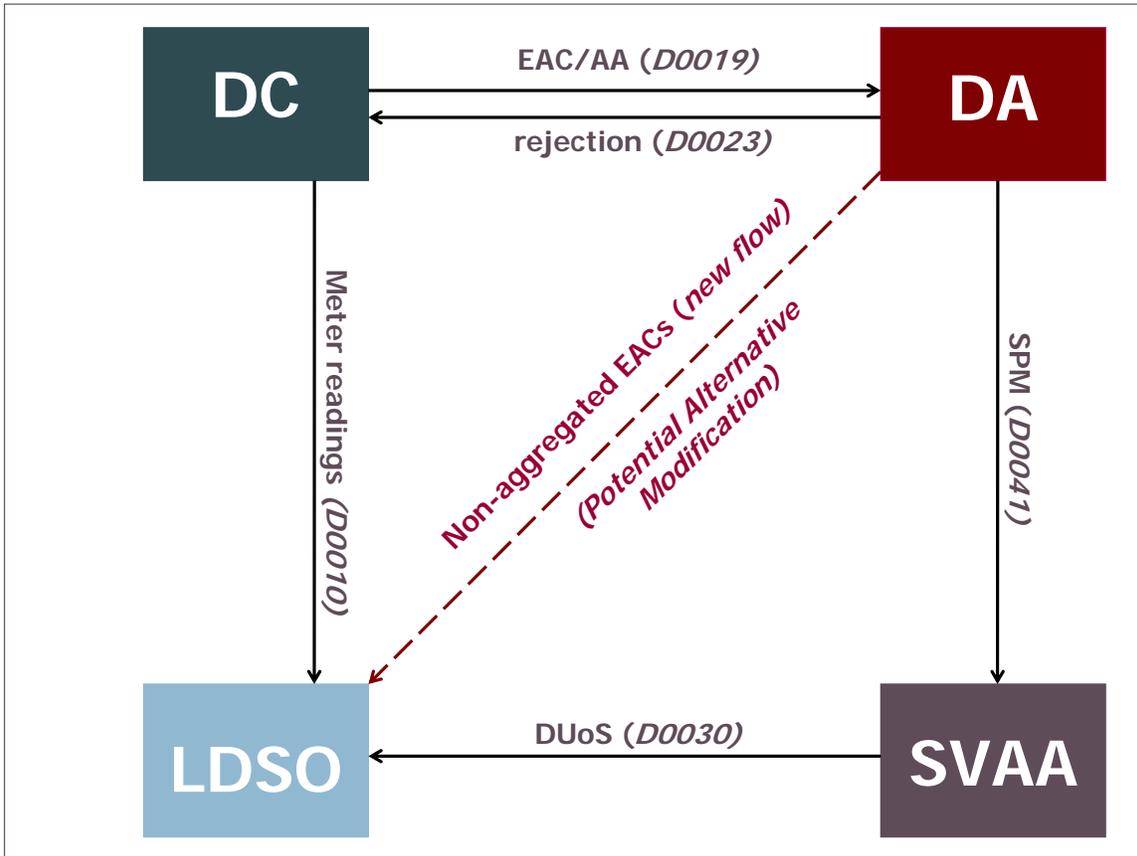
As with the Proposed Modification, the potential alternative also seeks to ensure that LDSOs receive EAC data for Metering Systems located within their Distribution Network. It is proposed that this information be provided by the Non Half Hourly Data Aggregator (NHHDA) sending a new flow to the relevant LDSO only. This can be seen as the red dotted line in Figure 2 below. The data items of the new flow are contained in Appendix 2 and will detail Non-Half Hourly

---

<sup>5</sup> The relevant DSOs would therefore receive a D0019 flow every time that a D0019 is generated by the NHHDC and provided to the NHHDA in accordance with Section S of the BSC.

consumption EACs by GSP Group, Profile Class, and Line Loss Factor. This will provide site specific consumption data to LDSOs.

**Figure 2. Potential Alternative Modification – New flow from NHHDA to LDSOs**



### 3.1 Requirement 1 – Identify Relevant LDSOs

The NHHDA would identify relevant LDSOs to receive the new flow. The data items to be contained in this new flow are contained in Appendix 2. This would be based on the LDSO Id contained in the MPAN. LDSOs should only receive this new flow where their LDSO Id appears in these first two digits of the core MPAN.

**If a more cost effective means of identifying LDSOs to receive this new flow is identified then please provide this along with your impact assessment.**

### 3.2 Requirement 2 – Sending the new flow

The new flow would be required to be sent quarterly. This would be sent on (or the first business day after) 1 May, 1 August, 1 November, and 1 February of each year<sup>6</sup>. The data to be captured in the new flow would be a snapshot of the EAC data available on that day. This flow would be sent across the Data Transfer Network (DTN).

<sup>6</sup> Note that the reason for selecting 1 May is that many meter readings will be submitted quarterly based on the financial year that starts on 1 April. Taking a snapshot on 1 May would allow for those meter readings to be captured in the data sent to the DSOs.

**If it can be identified that there is a more cost effective means to provide the new flow to LDSOs (for example, by changing how often the new flow is sent, or by identifying only those LDSOs who want the information and only sending the new flow to those who want it, or emailing this data rather than transferring it across the DTN), then please identify this along with your impact assessment.**

The potential Alternative Modification would also require an update to the DTC and DTN to describe the new flow and the sender and recipient.

For the avoidance of doubt, the new flow from the NHHDA to the LDSO would be accepted by the LDSOs on an 'as is' basis and there would be no formal process for the LDSO to query the data. There would be no additional obligations placed on Suppliers or NHHDA's in this area.

### **3.3 Impact Assessment**

As part of this impact assessment it is specifically requested that, for the potential Alternative Solution:

- LDSOs confirm whether they would intend to use the new data flow if it is sent to them;
- LDSOs confirm the expected costs to process the new flows in accordance with the anticipated level they would use the data;
- If different from the Proposed Modification, LDSOs confirm any savings that the new flow would provide from reduced processing of D0010, D0149 and D0150s;
- NHHDA to confirm the costs to implement the solution (and provide any more cost effective solutions if these have been identified). Note that BSCCo (via its service provider) will provide costs for changing the NHHDA software; and
- NHHDA and LDSOs confirm the time required to implement the solution.

## **4 NON-BSC SOLUTION: DCUSA CHANGE**

This non-BSC solution would seek to provide LDSOs with D0019-equivalent data by modifying the provisions in the DCUSA.

This solution would seek to update the DCUSA to provide provisions for the LDSO to obtain the required site specific consumption data from Suppliers. The Modification Group noted that the DCUSA could be changed to facilitate this solution, but agreed that the detailed requirements of such a change would be subject to the DCUSA change process. For the purposes of cost comparison it is assumed that Suppliers would provide data to LDSOs on a quarterly basis<sup>7</sup>.

### **4.1 Impact Assessment**

As part of this impact assessment it is specifically requested that, for the non-BSC solution (DCUSA change):

---

<sup>7</sup>Assuming this information is provided on a quarterly basis gives a direct comparison to the potential Alternative Modification. This will provide the maximum cost of this solution should DSOs only request this data quarterly.

- LDSOs indicate whether, and how frequently, they would make requests for D0019-equivalent data under any new DCUSA provisions;
- LDSOs confirm the expected costs to manually collate the data from multiple Suppliers;
- If different from the Proposed Modification, LDSOs confirm any savings that the new flow would provide from reduced processing of D0010, D0149 and D0150s; and
- Suppliers to confirm costs to provide site specific consumption data (assume all LDSOs request quarterly and at the same time); and
- Suppliers and LDSOs confirm the time required to implement the solution.

## 5 NO BSC OR DCUSA CHANGE

D0019-equivalent data may be obtained by the LDSOs without a change to the BSC or DCUSA in one of two methods:

- a. The LDSOs currently receive data flows under the BSC containing meter technical details in the D0149 'Notification of Mapping Details', and D0150 'Non Half Hourly Meter Technical Details' from Non Half Hourly Meter Operator Agents (NHHMOAs). They also receive meter readings from NHHDCs (D0010). Site specific consumption data can be obtained from processing these flows; and
- b. An LDSO can enter into agreements with Suppliers to be provided with D0019-equivalent data on an ad-hoc basis.

### 5.1 LDSO processing current BSC flows

This process would seek to provide LDSOs with site specific consumption data by relying on existing BSC data flows sent to the LDSO.

Under existing BSC requirements, LDSOs should currently receive data flows containing meter technical details from NHHMOAs (D0149/D0150) and meter readings from NHHDCs (D0010).

By processing information in these flows an LDSO can calculate site specific consumption data<sup>8</sup>.

#### 5.1.1 Impact Assessment

As part of this impact assessment it is specifically requested that:

- LDSOs confirm whether they currently use D0010 flows to calculate site specific consumption data;
  - If no, what is the estimated cost and time requirements to introduce such a process. Additionally, what are the perceived benefits of, and/or barriers to, its introduction?

---

<sup>8</sup> At least one LDSO currently calculates site specific data in this manner. This LDSO has estimated that the cost of processing the data is approximately £10,000 per year. However, the LDSO estimates that due to errors such as missing and inconsistent data flows, such calculations are only 90% accurate. It is estimated that introducing processes to query and resolve such errors could cost the LDSO around £100,000 per year. Additionally, should such processes be introduced, the LDSO estimates that Suppliers and/or their Agents, would receive around 5,000 queries per year.

- If yes, what is the cost of this process and what problems, if any, do you experience?
- Suppliers confirm whether LDSOs introducing processes to query missing and inconsistent D0010s would largely replicate processes already undertaken by the Supplier; and
- Suppliers confirm the cost of dealing with queries should all LDSOs opt to calculate site specific consumption from existing data flows and raise queries with the Supplier (noting the LDSO estimate of queries in footnote 8).

## **5.2 Supplier/Distributor agreements**

This process would seek to provide LDSOs with D0019-equivalent data by relying on existing working relations with Suppliers (potentially involving bi-lateral agreements entered into outside of the BSC).

LDSOs would request this D0019-equivalent EAC data on an ad-hoc basis (or as agreed between the parties in any bi-lateral agreement). For the purposes of cost comparison, we assume that all LDSOs request this data on a quarterly basis. Under this process, there is the potential for LDSOs to receive the information in varying formats dependent on the agreements they strike with each Supplier.

For the avoidance of doubt, there will be no change to the DCUSA (or the BSC) under this solution.

### **5.2.1 Impact Assessment**

As part of this impact assessment it is specifically requested that:

- If different to the non-BSC solution, LDSOs confirm why it is different, and whether, and how frequently, they would make ad-hoc requests for D0019-equivalent data;
- If different to the non-BSC solution, LDSOs confirm the expected costs to make ad-hoc requests and manually collate the data from multiple Suppliers;
- If different from the Proposed Modification, LDSOs confirm any savings that the new flow would provide from reduced processing of D0010, D0149 and D0150's;
- Suppliers to indicate willingness to enter bi-lateral agreements with multiple LDSOs to provide this information; and
- If different to the Proposed Modification, Suppliers to confirm costs to respond to ad-hoc requests (assume all LDSOs request quarterly and at the same time), and confirm why these are different.

Note that this information can be provided as confidential and will not be published publicly but would be published to Ofgem along with the Modification Report.

## 6 ESTIMATED IMPACT OF MODIFICATION ON SYSTEMS, PROCESSES AND DOCUMENTATION

### a) Impact on BSC Systems and Processes

No impact.

### b) Impact on BSC Agent Contractual Arrangements

No impact.

### c) Impact on BSC Parties and Party Agents

All options would have an impact on Suppliers. This is either via their NHHDC or NHHDA for the Proposed Modification and potential Alternative Modification respectively, or via the non-BSC solutions in which Suppliers would be required to provide the information to the LDSOs on an ad-hoc basis or as agreed between the parties in any bi-lateral agreement.

For the Proposed Modification, NHHDC would be required to send a D0019 flow to all relevant LDSOs at the same time it sends this flow to the Suppliers and NHHDAs. The relevant LDSOs would be identified by the first 2 digits of the MPAN value.

For the potential Alternative Modification, the NHHDA would be required to send a new flow to relevant LDSOs on a quarterly basis. The relevant Distributor's would be identified by the first 2 digits of the core MPAN value.

LDSOs would not be required to process the information once received. However, the Modification Group is interested in the expected costs to be incurred by LDSOs to enable them to process the information under each of the BSC and non-BSC solutions. This is the necessary cost to enable the LDSOs to obtain the benefits of being given the data.

### d) Impact on Transmission Company

No impact.

### e) Impact on BSCCo

Area of Business	Impact of Proposed/potential Alternative Modification
Change Delivery	<p>Change Delivery would be responsible for the Implementation of the changes to the BSC and Code Subsidiary Documents as part of a release, co-ordinated with MRASCo.</p> <p>The BSC potential Alternative would require NHHDA to send the new flow) to LDSOs on a quarterly basis. Note that BSCCo (via its service provider) will provide costs for changing the NHHDA software.</p>
Service Delivery	<p>It is anticipated that provision of D0019 or any new flows of data to Distributors may result in assistance being required for resolution of queries.</p>

**f) Impact on Code**

Code Section	Impact of Proposed/potential Alternative Modification
Section S	<p>Section S, paragraph 2.3.2 (i), and Annex S-2, paragraph 4.3 1 (i), of the BSC require the NHHDC to provide validated Metered Data and Metering System reports to the relevant Supplier and the Relevant LDSO.</p> <p>Section S, paragraph 2.3.2 of requires NHHDC to provide Estimated Annual Consumption data and Annualised Advance data to relevant Non Half Hourly Data Aggregator. Section S, Annex S-2, paragraph 4.3.1 (h) requires each Supplier to ensure that each of its NHHDC shall (amongst other things) provide Annualised Advance data and Estimated Annual Consumption data to the relevant NHHDA</p> <p>For the Proposed Modification, the BSC needs to make clear that there is an obligation on the NHHDCs to provide Estimated Annual Consumption data and Annualised Advance data to the relevant LDSOs. It may also be necessary for the BSC to state that NHHDCs have an obligation to identify the relevant LDSOs and process the data to ensure that each LDSOs only receives data relating to that LDSO.</p> <p>For the potential Alternative, the BSC needs to make clear that there is an obligation on the NHHDCs to provide a new flow of data to the LDSO. The 'new flow of data' will need to be accurately and appropriately described.</p>

**g) Impact on Code Subsidiary Documents**

Document	Impact of Proposed/potential Alternative Modification
BSCP504 'Non-Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'	For the Proposed Modification, this BSCP would be updated to note the additional interface between NHHDCs and LDSOs for sending the D0019 flow.
BSCP505 'Non-Half Hourly Data Aggregation for SVA Metering Systems Registered in SMRS'	For the potential Alternative Modification, this BSCP would be updated to note the additional interface between NHHDCs and LDSOs for sending the new data flow.
PSL120 'Non-Half Hourly Data Collection'	An amendment could be made to PSL120. HOWEVER, this PSL is scheduled for removal at the June 2008 Release and has been out for impact assessment as CP1213. Therefore it is unlikely that change would be necessary.
SVA Data Catalogue Volume 1	<p>For the Proposed Modification, this data catalogue would be updated to add the LDSO to the list of recipients to the D0019.</p> <p>For the potential Alternative Modification, this data catalogue would be updated to add the LDSO to the list of recipients to the D0019.</p>

## h) Impact on Core Industry Documents/System Operator-Transmission Owner Code

Document	Impact of Proposed/potential Alternative Modification
Distribution Connection and Use of System Agreement (DCUSA)	For the non-BSC solution 1, there would need to be a change to the DCUSA to create greater clarity that Suppliers would provide LDSOs with D0019 equivalent data. It is envisaged that when and the format type would also be made explicit in the DCUSA.
Master Registration Agreement products	<p>For the BSC solutions, changes to the DTN and DTC would be required to indicate that the LDSO would be an additional recipient of the D0019 flow (or new data flow in the case of the potential Alternative) and to reconfigure the network gateways to allow the D0019 (or new data flow in the case of the potential Alternative) to be passed from NHHDCs (NHHDA) to LDSOs. These changes would be progressed only if the Proposed Modification or potential Alternative Modification were to be approved, and the implementation timetable would need to allow an appropriate period for change.</p> <p>For the Proposed Modification, it was estimated that this would require an additional 13.9 gigabytes of traffic across the DTN. Based on 2007 data volumes, this would result in an increase in Data Transfer Systems Traffic Usage Charges of £25,020 per annum (at today's DTS prices). No performance issues have been identified.</p> <p>For the Potential Alternative, this cost would be significantly reduced because the quarterly snapshot significantly reduces the volume of additional traffic.</p>

## i) Impact on Other Configurable Items

No impact.

## j) Impact on BSCCo Memorandum and Articles of Association

No impact.

## k) Impact on Governance and Regulatory Framework

No impact.

## 7 DEVELOPMENT PROCESS

For the purposes of the impact assessment, respondents should assume that the BSC elements of P222 would be implemented as a stand-alone development project managed by BSCCo.

There would also be a concurrent change required to MRA products.

## 8 TERMS USED IN THIS DOCUMENT

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

Acronym/Term	Definition
AA	Annualised Advance
D0010	Meter Readings – this flow contains raw Meter reading data and is used in the creation of a D0019.
D0019	Metering System EAC/AA Data – information in this flow is derived using data from current and previous Meter reads (D0010) and the profiles over the read period to create an annual consumption for a metering point. The D0019 is then passed into the Non Half Hourly Data Aggregator. (See Appendix 1).
D0030	Non Half Hourly DUoS Report – this flow contains the total profiled consumption for all Metering Systems (but not per Metering Systems) for a particular LDSO.
D0041	Supplier Purchase Matrix Data – this flow contains details of NHH Consumption per Supplier aggregated per GSP Group by profile class, line loss factor class and measurement requirement. (See Appendix 2).
D0149	Notification of Mapping Details. This flow notifies mapping of physical registers to time pattern regimes.
D0150	Non Half-hourly Meter Technical Details
DCUSA	Distribution Connection and Use of System Agreement
LDSO	Licensed Distribution System Operator
DTC	Data Transfer Catalogue
DTN	Data Transfer Network
EAC	Estimated Annual Consumption
IDNO	Independent Distribution Network Operator
MPAN	Meter Point Administration Number – An MPAN is a unique number for each meter.
MRASCO	Master Registration Agreement Service Company
NHH	Non Half Hourly
NHHDA	Non Half-Hourly Data Aggregator
NHHDC	Non Half-Hourly Data Collector

## 9 DOCUMENT CONTROL

### 9.1 Authorities

Version	Date	Author	Reviewer	Reason for Review
0.1	26/02/08	Chris Stewart	Sarah Jones/Kevin Spencer	For technical review
0.2	28/02/08	Chris Stewart		For Modification Group review
0.3	4/03/08	Chris Stewart		For Modification Group review
0.4	11/03/08	Chris Stewart	Andrew Manning / David Jones	Quality and Technical
1.0	11/03/08	P222 Modification Group		For impact assessment

### 9.2 References

Ref.	Document Title	Owner	Version
1	Data Transfer Catalogue – MRASCO website <a href="#">Data Flows</a>	MRASCO	8.8
2	DCUSA – 5 October 2006 <a href="http://www.ofgem.gov.uk/Licensing/ElecCodes/DCUSA/PreDESIG/Documents1/15650-DCUSA.pdf">http://www.ofgem.gov.uk/Licensing/ElecCodes/DCUSA/PreDESIG/Documents1/15650-DCUSA.pdf</a>	Ofgem	1.0

## Appendix 1: D0019 - Metering System EAC/AA Data

<b>Flow Name:</b>	<b>Metering System EAC/AA Data</b>	
<b>Flow Description:</b>	Details of the annualised advance and estimated annual consumption calculated by the Data Collector for a metering system.	
<b>Flow Ownership:</b>	BSC	
<b>From</b>	<b>To</b>	<b>Version</b>
NHHDC	NHHDA	1.0
NHHDC	Supplier	1.0

### Data Items:

Reference	Item Name
J0079	Annualised Advance
J1096	Effective from Settlement Date
J1097	Effective to Settlement Date
J1099	Energisation Status Id
J0081	Estimated Annual Consumption
J0330	File Sequence Number
J0066	GSP Group Id
J0109	Instruction Number
J1094	Market Role
J0082	Measurement Class Id
J0083	Metering System Id
J1095	Participant Id
J0071	Profile Class Id
J0328	Significant Date
J0076	Standard Settlement Configuration Id
J0084	Supplier Id
J0078	Time Pattern Regime
J1109	Type Code

### Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
ZPI	Instruction File Additional Header	1		G								
					1							File Sequence Number
ZIN	Instruction Header	1-*		G								
					1							Instruction Number
					1							Type Code
					1							Metering System Id
					N							Market Role
					N							Participant Id
ISD	Significant Date	1		G								
						1						Significant Date
AAH	Annualised Advance Set Header	0-*		G								
						1						Effective from Settlement Date
						1						Effective to Settlement Date
AAD	Annualised Advance Details	1-*				G						
							1					Time Pattern Regime



## Appendix 2: Data items for new data flow: Potential Alternative Modification

<b>Flow Name:</b>	<i>TBC</i>	
<b>Flow Description:</b>	<i>TBC</i>	
<b>Flow Ownership:</b>	BSC	
<b>From</b>	<b>To</b>	<b>Version</b>
NHHDA	Relevant LDSO	1.0

### Data Items:

Reference	Item Name
J1099	Energisation Status Id
J0081	Estimated Annual Consumption
J0330	File Sequence Number*
J0066	GSP Group Id
J1104	GSP Group
J0147	Line Loss Factor Class Id
J0109	Instruction Number*
J0083	Metering System Id
J0071	Profile Class Id
J0328	Significant Date
J0076	Standard Settlement Configuration Id
J0078	Time Pattern Regime
J1109	Type Code*

\* It is to be confirmed as part of the impact assessment whether these Data Items are necessary within the body of the Flow.

### Help us be "Easy to do Business With"

Improving our documents is one of our key objectives for 2008. Your feedback will help us to improve, so please tell us what you think of this document:

1. Do you have any comments on the tone and content of the report?
2. Was the report easy to read and understand, could it be written better? If so, how?
3. Do you have any comments on the structure of the document?

[Click here](#) to send us your feedback on this or any of our documents **or email [communications@elexon.co.uk](mailto:communications@elexon.co.uk)**.

Thank you.