

NETA Change Form

Title		Version No.
P215 Revised Credit Cover Methodology for Generating BM Units.		0.1
		LogicaCMG Reference
		ICR844
ELEXON Reference	Date CP Received	Date IA Issued
CP 111	5 th November 2007	15 th November 2007
LogicaCMG Contact Name	Baseline for Impact Assessment	
Gemini Carrington	CR111.doc dated 5 th November 2007 P215AS10.pdf v1.0 dated 5 th November 2007	
Price Breakdown		
Item description	Remarks	Price (ex VAT)
Total Price (ex VAT)	Proposed Solution: (no Panel Qualify Flag)	£ 88,500
	Alternative Solution: 1	£ 191,500
	Alternative Solution: 2	£ 208,400
	Alternative Solution: 3	£ 226,000
	Optional Report (for Alt 3 only)	£ 7,860
	Add on: Panel Qualify Flag	£ 37,100
	Add on: Proposed Option C	£ 37,100
	Add on: Panel Qualify Flag and Proposed Option C	£ 49,350

Price Tolerance	0%
Justification for Price Tolerance	
**NOTE See " Any Other Information " section for details of additional porting costs **	

Project Duration	Proposed Solution: (no Panel Qualify Flag)	13 weeks
	Alternative Solution: 1	20 weeks
	Alternative Solution: 2	22 weeks
	Alternative Solution: 3	24 weeks
	Optional Report (for Alt 3 only)	2 weeks
	Add on: Panel Qualify Flag	6 weeks
	Add on: Option C	6 weeks
	Add on: Panel Qualify Flag and Opt C	8 weeks

Cut Off Date for Inclusion in Specified Release (if applicable)
N/A

Operational Price (e.g. per annum or event) (ex VAT)	£0
Rationale	
N/A	

Annual Maintenance Price (ex VAT)	£0
Rationale	
The Annual Maintenance Price is zero under the agreement commencing on 1 January 2005.	

Validity Constraints	
<ul style="list-style-type: none"> • Price and duration assume that this change is developed in isolation and the effects of other changes are excluded. • No allowance is included for the final solution being different from the baseline. • No allowance is included for supporting Release Audit activities. Any effort will be charged at contracted T&M rates • No allowance is included for supporting ELEXON assurance activities. Any effort will be charged at contracted T&M rates • No allowance is included for End to End/Participant Testing activities. Any effort will be charged at contracted T&M rates • No allowance is included for Walkthrough activities. Any effort will be charged at contracted T&M rates • No allowance is included to support ELEXON in parallel run testing activities <p>The validity period for this assessment is 30 days and is based on the following payment schedule:</p> <ul style="list-style-type: none"> • LogicaCMG will invoice 30% on receipt of Purchase Order or authorised start of work, 30% on completion of first build phase, 30% on live implementation and 10% on successful completion of the Success Criteria or one month after live implementation, whichever is sooner. 	
Authorised Signature	Date Signed

Requirements and Solution

Brief Summary of Change

Please can you complete an Impact Assessment of P215 based on the attached Requirement Specification for P215 v1.0.

Proposed Modification P215 seeks to modify the Balancing and Settlement Code such that:

For 'generating BM Units' that qualify for P215 the Final Physical Notifications (FPN) shall be used as a "metered volume proxy" in the calculation of Credit Assessment Energy Indebtedness (CEI).

Within this proposal there is also defined a method for handling Demand BMUs that fall within Production Trading Units. The means by which such BMUs are determined is defined as three alternative methods, Options: A, B and C.

In addition to the proposed there are a number of Alternatives:

- 1 - Use FPN to calculate CEI initially and then subsequently update the CEI with BOA data.
- 2 - Use FPN to calculate CEI initially and then subsequently update the CEI with a combination of BOA and MEL data.
- 3 - Use FPN to calculate CEI, and shorten the CEI period for qualifying CVA BM Units by using Metered Volume data from CDCA.
- 4 - Use FPN to calculate CEI, and shorten the CEI period for qualifying CVA BM Units by using indicative Metered Volume and indicative pricing data from SAA.

LogicaCMG's Proposed Solution

Proposed Solution (No Panel Qualifying Flag)

BMUs that are deemed to be P215 qualifying will have their CEI derived from FPN data (as per P140 Interconnector BMU functionality).

Tasks

- Modify Credit Check to extend P140 code to include all P215 qualifying BMUs.
- Modify The MVRN Loader to extend P140 code to include all P215 qualifying BMUs.
- Modify ECVAI-I014 definition (not the functionality)

Documentation Changes

- IDD (part 1 doc & spreadsheet)
- ECVAI URS/SS/DS
 - Changes to Indebtedness Function
 - Changes to I014 (out) - rename fields

Panel Qualifying Flag

BMUs that are deemed to be P215 qualifying as the result of a Panel decision will be flagged as such within CRA and this information will be reported to ECVAI.

Additional Tasks

- Modify CRA BMU Screen to include P215 Qualifying tick-box
- Modify the CRA-I014 and CRA-I020 report to report P215's new BMUs Qualifying Flag
- Modify CRA-I015 (BMRA/ECVAI/FAA) to include BMU Exempt Export Data and P215 Qualifying Flag [no impact on FAA or BMRA]
- Modify CRA/ ECVAI Database to add P215 Qualifying Flag field

- Modify ECVAA BMU Loader to read new Flag value

Additional Documentation Changes

- IDD (part 1 doc & spreadsheet; part 2 doc & spreadsheet)
- CRA URS/SS/DS
 - New manual flow from Elexon for P215 Qualifying
 - Changes to I014 and I020 Daily (out)
 - Changes to I015 BMU to ECVAA (out)
- ECVAA URS/SS/DS
 - Changes to I001 BMU Data (in)

Demand BMUs - Option A & B

No additional work required for these options.

Demand BMUs - Option C

Demand BMUs to be included in the P215 calculation would be identified by a new registration data flag.

Additional Tasks

- Modify CRA BMU Screen to include Demand Qualifying tick-box
- Modify the CRA-I014 report to report Demand BMUs Qualifying Flag
- Modify CRA-I015 (BMRA/ECVAA/FAA) to include Demand BMU Qualifying Flag [no impact on FAA or BMRA]
- Modify CRA/ECVAA Database to add Demand Qualifying Flag field
- Modify ECVAA BMU Loader to read new value
- Modify Credit Check to process Demand Qualifying BMUs correctly (use DC rather than GC)

Documentation Changes

- IDD (part 1 doc & spreadsheet; part 2 doc & spreadsheet)
- ECVAA URS/SS/DS
 - Changes to Indebtedness Function
 - Changes to I001 BMU Data (in)
- CRA URS/SS/DS
 - New manual flow from Elexon for Demand Qualifying BMUs
 - Changes to I014 Daily (out)
 - Changes to I015 BMU to ECVAA (out)

Please Note that the following options are Additions to Proposed or Alternative Options (only 1 can be chosen) :

- Panel Qualify Flag
- Option C
- Panel Qualify Flag and Opt C

Alternative Solution 1

BMUs that are deemed to be P215 qualifying will have their CEI derived from FPN and BOA data (NOTE: The Interconnector BMU functionality is to remain unchanged). The Credit Checker needs to include the concept of ICCP (at gate closure) and CCP (at gate closure + 2hours when BOA data becomes available).

Additional Tasks

- Modify input scanner to send copy of BOA file to ECVAA

- Create BOA Loader for ECVA (based on SAA)
- Modify ECVA Database to hold BOA data
- Modify Credit Check to process P215 Qualifying BMUs using FPN and BOA data. To carry out ICCP and CCP.
- Modify The MVRN Loader to handle P215 qualifying BMUs for late Notifications.
- Modify ECVA-I014 to include additional CEI field (interconnector / *P215* / other)

Additional Documentation Changes

- IDD (part 1 doc & spreadsheet; part 2 doc)
- ECVA URS/SS/DS
 - New BOA input flow

Alternative Solution 2

BMUs that are deemed to be P215 qualifying will have their CEI derived from FPN, and then subsequently adjusted by MEL and BOA data once it becomes available (NOTE: The Interconnector BMU functionality is to remain unchanged). The Credit Checker needs to include the concept of ICCP (at gate closure) and CCP (at gate closure + 2hours when BOA data becomes available).

Additional Tasks

- Modify input scanner to send copy of BOA and MEL files to ECVA
- Create BOA Loader for ECVA (based on SAA)
- Create MEL Loader for ECVA (based on SAA)
- Modify ECVA Database to hold MEL data and BOA data plus derived Volumes
- Modify Credit Check to process P215 Qualifying BMUs using FPN, MEL and BOA data. To carry out ICCP and CCP.
- Modify The MVRN Loader to handle P215 qualifying BMUs for late Notifications.
- Modify ECVA-I014 to include additional CEI field (interconnector / *P215* / other)

Additional Documentation Changes

- IDD (part 1 doc & spreadsheet; part 2 doc)
- ECVA URS/SS/DS
 - New BOA input flow
 - New MEL input flow

Alternative Solution 3

BMUs that are deemed to be P215 qualifying will have their CEI derived from FPN data. Those P215 qualifying BMUs that are CVA registered will have their Energy Indebtedness calculated from CDCA supplied Meter Volume data when it becomes available. If no Meter Volume data is available then Parties with BMUs that qualify will have a Metered Energy Indebtedness (MEI) value derived from FPN data.

Additional Tasks

- Modify CDCA Aggregation Process adding a new run mode
- Modify CDCA Aggregation Report module to generate a new BMU Meter Volume flow
- Create new BMU Meter Volume loader for ECVA
- Modify ECVA Database to hold BMU Meter Volumes
- Modify Credit Check to process P215 Qualifying BMUs using Meter Volume data or FPN and derive an MEI value for impacted parties.
- Modify ECVA-I014 to report MEI value in new field.

Additional Documentation Changes

- IDD (part 1 doc & spreadsheet; part 2 doc & spreadsheet)

- CDCA URS/SS/DS
 - Change to Aggregation Function
 - New BMU Meter Volume flow to ECVA
- ECVA URS/SS/DS
 - New BMU Meter Volume flow from CDCA
 - Changes to the I014 – new MEI field

Alternative Solution 4

Not assessed.

We were unable to design a satisfactory solution to this modification because of the need to keep the existing functionality for non-qualifying BMUs. We could not determine a mechanism to calculate the overall Energy Indebtedness where it was necessary to combine the SAA derived AEI data and the ECVA derived CEI data, for those participants with a combination of P215 qualifying and non-qualifying BMUs, due to the fact that currently there is no clear way to identify individual BMU elements within the SAA derived AEI data.

Optional Reporting (for Alternative 3 only)

Report CDCA Meter Volume data used in ECVA by expanding the new CDCA Meter Volume Report to target Participants as well as ECVA.

Additional Tasks

- Modify new CDCA Meter Volume Report to include additional recipients.

Additional Documentation Changes

- IDD (part 1 doc & spreadsheet)
- CDCA URS/SS/DS
 - Extend new flow definition

Deviation from ELEXON's Solution / Requirements

None

Operational Solution and Impact

None

Testing Strategy

Unit	X	Change Specific	X	End to End	
Module	X	Operational Acceptance		Participant Testing	
System	X	Performance		Parallel Running	
Regression	X	Volume		Deployment/ Backout	X

Other:

Validated Assumptions

Proposed Solution (No Panel Qualifying Flag)

- A new manual flow from Elexon will define P215 qualifying BMUs

Panel Qualifying Flag

- A new manual flow from Elexon will define P215 qualifying BMUs.

Demand BMUs - Proposed Solution (c)

- A new manual flow from ELEXON will define P215 qualifying Demand BMUs.

Alternative Solution 1

- No BOA screen required for ECVA (no late changes to be handled).
- No suspension of CCP Credit Check if BOA data delayed.
- CCP will never assume that data is unchanged from ICCP, it will always re-calculate CEI.
- The most recent credit limit data from FAA is used for CCP (i.e. not necessarily that used for ICCP).
- Both ICCP and CCP will be considered the same (using ICCP where CCP is not available) with regards to checking for entering or exiting Credit Default and the acceptance/rejection of notifications.

Alternative Solution 2

- No BOA or MEL screens required for ECVA (no late changes to be handled).
- No suspension of CCP Credit Check if BOA or MEL data delayed.
- CCP will never assume that data is unchanged from ICCP, it will always re-calculate CEI.
- The most recent credit limit data from FAA is used for CCP (i.e. not necessarily that used for ICCP).
- Both ICCP and CCP will be considered the same (using ICCP where CCP is not available) with regards to checking for entering or exiting Credit Default and the acceptance/rejection of notifications.
- For the purpose of determining whether or not MEL has any impact on FPN only the spot value of FPN and MEL for the latest point in the relevant Settlement Period will be used.
- Where MEL data is used then it is the integrated FPN as adjusted by BOA and MEL that is calculated (not the spot value).

Alternative Solution 3

- The MEI calculation based on CDCA data will be done for SP 1 (in line with current AEI processing) rather than when the CDCA data arrives.
- CEI will not be recalculated at the time that MEI is calculated.
- MEI is not impacted by late MVRNs.

Optional Reporting (for Alternative 3 only)

- Participant reports will only include BMUs that they are the Lead Party for.

Outstanding Issues

None

Changes to Service									
Services Impacted									
	BMRA	CDCA	CRA	ECVAA	FAA	PARMS	SAA	SVA	Other
Software		X	X	X					
IDD Part 1 (Docs)		X	X	X					
IDD Part 1 (S'Sheet)		X	X	X					
IDD Part 2 (Docs)		X	X	X					
IDD Part 2 (S'Sheet)		X	X	X					
URS		X	X	X					
SS		X	X	X					
DS		X	X	X					
MSS									
OSM									
LWIs									
RTP	None								
Comms	None								
Other	None								
Nature of Documentation Changes									
Full Document		Document Change Record					None		X
Deployment Issues, e.g. Outage Requirements:						Outage requirements – required for ECVAA			
Impact on Service Levels:						None			
Impact on System Performance:						None			
Acceptance Criteria									
This is covered by the acceptance criterion 2 in the Change Delivery – Release Acceptance Criteria (002rmr50.doc) v5.0 dated 13 th October 2003.									

Any Other InformationPort and Migrate costs

We have assumed a November 2008 target release for these costings. This means delivery under the current hardware baseline (Tru-64 and Oracle 9i) and thus would require an additional work to port. Migrate and test the changes on the new hardware baseline (HP-UX and Oracle 10g). These activities include :-

- Port of the change to HP-UX including confidence testing
- Oracle 9i Bench mark tests
- Oracle 10g Bench mark tests
- Regression and performance testing
- Resolution of any issues raised by the above
- Release of ported software with release documentation

We estimate the additional port and migrate costs for these changes to be in the range £22,000 (Proposed Options A or B) to £50,000 (Alternative 3).

Costs excluded

Any activity associated with OAT, Deployment Testing and deployment are non-determinable at this time as no decisions have been made about the Operate and Host supplier for this period (and their relative responsibilities for a release onto the live environment). If LogicaCMG were the Operate and Host supplier we would be able to reduce the release costs from those quoted above due to documentation similarities.

Attachments

CR 111 P215 Labour Presentation v0.1.xls