IMPACT & IMPLEMENTATION REPORT – SUMMARY SECTION

Issue Number	IN034/16		
Impacted Jurisdiction (s)	All		
Proponent	Nandu Datar	Company	AEMO
Affected Gas Markets(s) ▪ Retail ▪ Wholesale ▪ Bulletin Board ▪ STTM	Retail	Consultation process (Ordinary or Expedited)	Ordinary
Industry Consultative forum(s) used	GRCF	Date Industry Consultative forum(s) consultation concluded	23 December 2016
Short Description of change(s)	Self Service initiative to FRC HUB Certification process.		
Procedure(s) or Documentation impacted	FRC Hub Participant User Guide Connectivity Testing and Technical Certification (SA and WA)[1] Gas FRC B2B Connectivity Testing and Sys Certification (VIC , QLD and NSW/ACT) Specification Pack Usage Guidelines		
Summary of the change(s)	During participant certification, constant handover between the participant and AEMO is causing significant delays. This is causing delays in participants going live. To streamline the process AEMO's certification responders were recently enhanced to support a self-service feature. Attachment A, B and C is an extract from the relevant section of the Connectivity Testing and Technical Certification (SA and WA) document, Gas FRC B2B Connectivity Testing and Sys Certification (VIC, QLD and NSW/ACT) and FRC Hub Participant User guide showing the marked up changes. See section 1 of this IIR for a more detailed explanation of the changes.		

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[1] The Connectivity Testing and Technical Certification document forms part of the AEMO Specification Pack therefore a formal Procedure consultation is required for SA and the WA PCC will need to review and ERA approval is required.

I&IR Prepared By	Nandu Datar	Approved By	Paddy Costigan
Date I&IR published	10 January 2017	Date Consultation under 135EE or 135EF concludes	31 January 2017
Contact address for written responses	Nandu Datar, Australian Energy Market Operator, GPO Box 2008, Melbourne VIC 3001		
Email Address for Responses	GRCF@aemo.com.au		
Other key contact information	Nandu.datar@aemo.com.au		

IMPACT & IMPLEMENTATION REPORT – DETAILED REPORT SECTION

CRITICAL EXAMINATION OF PROPOSAL	
1. Description of change(s) and reasons for change(s)	**Reasons why the proposed changes are needed:** AEMO certification responder is an IT testing tool that enables AEMO and participants to test whether transactions are appropriately configured before deploying IT changes into production systems. Currently the existing process to administer certification is time consuming which can cause delays in participants going live with system changes. **Description of the proposed changes:** To resolve such delays AEMO's has developed a new optional feature to support a self-service process. This new feature is now operational and the changes in this proposal are to update the documentation to reflect this new feature. The documentation changes are: Amend FRC Hub Participant User Guide to: • Include self-service certification feature in 'Responders', 'Certification' sections and Appendix A • Remove 'Disaster Recovery Provisions' diagram from Appendix C Amend FRC B2B Connectivity Testing and System Certification (VIC and QLD and NSW/ACT) to: • Include self-service certification feature in 'Preparation for Certification' • Modify certification process diagram and description. Amend Connectivity Testing and Technical Certification (SA and WA) to: • Include self-service certification feature in 'Certification Pre-requisites' • Modify certification process diagram and description Amend Specification Pack Usage Guidelines: • In section 2 (Overview of the AEMO Specification Pack) update the version numbers of the documents that are being amended. There are no further changes to any of AEMO or market participant's gas retail market systems.

2. Reference documentation ▪ Procedure Reference ▪ GIP/Specification Pack Reference ▪ Other Reference	FRC Hub Participant User Guide Connectivity Testing and Technical Certification (SA and WA)[2] Gas FRC B2B Connectivity Testing and Sys Certification (VIC , QLD and NSW/ACT) Specification Pack Usage Guidelines
3. The high level details of the change(s) to the existing Procedures This includes: ▪ A comparison of the existing operation of the Procedures to the proposed change to the operation of the Procedures ▪ A marked-up version of the Procedure change (see Attachment A)	As indicated in section 1, the proposed changes in this IIR is to add further clarity to the Connectivity Testing and Technical Certification (SA and WA) document, Gas FRC B2B Connectivity Testing and Sys Certification (VIC , QLD and NSW/ACT), FRC Hub Participant User Guide and Specification Pack Usage Guidelines. The precise amendments are detailed in Attachment A, B, C and D.
4. Explanation regarding the order of magnitude of the change (e.g.: material, non-material or non-substantial)	A Proposed Procedure Change (PPC) on this proposal was issued to the Gas Retail Consultative Forum (GRCF) for consultation on 2 December 2016. Participants were invited to provide feedback on this proposal to AEMO by 23 December 2016. AEMO received responses from APA, AGL and Origin Energy. None of those responses opposed the changes. AGL's feedback proposed further changes. AEMO's assessment of AGL's changes is that they add further clarity and the documentation has been updated accordingly. Subsequent to the GRCF review, AEMO identified that the Specification Pack Usage Guidelines also needed a minor update to the versioning table contained within the document. It is AEMO's view that the change proposed in this IIR is Non-substantial based on the feedback provided during the PPC consultation and the fact that it is only documentation changes.

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[2] The Connectivity Testing and Technical Certification document forms part of the AEMO Specification Pack therefore a formal Procedure consultation is required for SA and the WA PCC will need to review and ERA approval is required.

ASSESSMENT OF LIKELY EFFECT OF PROPOSAL	
5. Overall Industry Cost / benefit (tangible / intangible / risk) analysis and/or cost estimates	As prescribed in the "Approved Process", registered participants and interested stakeholders were invited to make a submissions to the Proposed Procedure Change (PPC). Submissions closed on 23 December 2016. AEMO received submissions from APA, AGL and Origin Energy (see attachment E). AEMO will not incur any implementation cost or ongoing cost associated with the proposed procedure change. During the PPC consultation no gas retail market participants indicated that they would incur costs as a result of this change. AEMO considers that the likely benefit for industry is removal of the bottleneck on FBSAdmin. It should result in a much quicker turnaround time for certification.
6. The likely implementation effect of the change(s) on stakeholders (e.g. Industry or end-users)	Participants can now dynamically check the transactions for certification themselves and do not need to wait for FBSAdmin to verify the transactions for them. FBSAdmin will only verify the transactions at the end. Participants can still access FBSAdmin resources for technical support if required via Support Hub.
7. Testing requirements	None
8. AEMO's preliminary assessment of the proposal's compliance with section 135EB: - consistency with NGL and NGR, - regard to national gas objective - regard to any applicable access arrangements	Consistency with NGL and NGR: AEMO's view is that the proposed Victorian RMP changes are consistent with the NGL and cover matters that the RMP may deal with under Section 135EA(1) of the NGR. National Gas Objective *"Promote efficient investment in, and efficient operation and use of, natural gas services for the long term interests of consumers of natural gas with respect to price, quality, safety, reliability and security of supply of natural gas."* It is AEMO's view that the proposed changes for IN034/16 will assist to facilitate the efficient operation of the retail gas market and are in the long-term interests of consumers as it promotes retail competition. Applicable Access Arrangements AEMO's view is that the proposed changes for IN034/16 are not in conflict with existing Access Arrangements. The Distributor did not raise concerns with the proposed amendments in relation to their Access Arrangement.

9. Consultation Forum Outcomes (e.g. the conclusions made on the change(s) whether there was unanimous approval, any dissenting views)	On 2 December 2016 AEMO published on its website a Proposed Procedure Change (PPC) that recommended minor documentation changes as described in attachment A, B and C. Registered participants and interested stakeholders were invited to make submissions which closed on 23 December 2016. AEMO received submissions from APA, AGL and Origin Energy supporting the proposal.

RECOMMENDATION(S)	
10. Should the proposed Procedures be made, (with or without amendments)?	AEMO recommends that the changes be made as proposed in attachments A, B, C and D
11. If applicable, a proposed effective date for the proposed change(s) to take effect and justification for that timeline.	AEMO proposes that the changes take effect on 27 March 2017 with publication of documents referenced in attachments A, B, C and D. The consultation dates are: • **10 January 2017** – IIR issued for consultation. • **31 January 2017** – Consultation closes for IIR. • **9 March 2017** – AEMO publishes Notice of Decision • **27 March 2017** – Effective date notification Feedback on the proposed changes to the documentation as described in attachment A, B, C and D is to be emailed to AEMO (GRCF@aemo.com.au) before COB **31 January 2017**. Please use the response template provided.

ATTACHMENT A

Proposed changes: FRC HUB PARTICIPANT USER GUIDE
~~Red strikeout~~ means delete and
<u>blue underline</u> means insert

2.6   Administration

The hubs are currently administered by AEMO. The name of the administration section is FBS Administration or FBSAdmin. To contact FBSAdmin call the AEMO support hub 1300 236 600 mentioning Gas B2B Hub, or e-mail ~~fbsadmin@aemo.com.au~~<u>support.hub@aemo.com.au</u>

3.4   Responders

The Responders are a part of the PreProduction Hub infrastructure and are available for participant use. The functionality available to users is:

* aseXML validation – submit an aseXML document and have it validated against the aseXML schema.

* aseXML message sending – submit an aseXML document and have it wrapped in ebXML and sent to the defined recipient's PreProduction gateway.

* Certification – a number of screens to guide a participant through the certification process.

* <u>Certification Checker – review the current status of a certification run.</u>

* System notifications (see section 4.3).

* View transaction details – search and view transactions that have been submitted to and from a recipients gateway.

* Resubmit transactions – resubmit a transaction from the Hub to a recipients gateway.

* Partner Profiles – view external id's and contact details of participants.

3.6   Certification

Currently, all Market Operators require that participants pass certification before they are allowed access to the Production Hub. Each Market Operator has a Certification Process document that describes the necessary steps to be taken by participants in order to certify. Contact the relevant Market Operator to obtain a copy.
The certification process involves sending documents to, and receiving documents from, the Certification Responder (FBS). To support the process a browser based User Interface is available on the Responder. See Appendix A for instructions in the use of this interface.

Once certification is carried out, the participant will review their certification status of all messages and transactions that are required to be certified via the Certification Checker. Once those transactions have passed, the Participant will contact Support Hub to request a review by FBSAdmin. FBSAdmin will then do a final review of the transactions and acknowledgements that have been sent by the participant. A report will be created and forwarded to the participant and the relevant Market Operator. The Market Operator will review the report in accordance with that market's requirements and, if satisfied with the results, will notify FBSAdmin and the participant of successful certification.

Following successful certification FBSAdmin will create a profile on the Production Hub which, when activated, will enable the participant to send production transactions within the applicable market.

Appendix A FRC Hub Portal User Interface

The FRC Hub Portal user interface provides access to a number of functions. Below is a summary of the functions available across the Production and Preproduction environments:

Function	Production	Preproduction
View transaction details	✓	✓
Send aseXML	✗ ➖	✓
Validate aseXML	✗ ✓	✓
Resubmit transactions	✓	✓
Email notifications	✗ ➖	✓
Perform certification	✗	✓
Certification checker	✗	✓
Partner profiles	✓	✓

The Preproduction environment provides access to two responders – **FBS** and **FBSTEST**. The **FBS** responder is used for official certification and the **FBSTEST** responder is used as a sandpit environment and is a mirror of the certification environment. The sandpit is for participants to use when they wish to send messages through the FRC B2B System in a Preproduction environment. Participants can practise the certification processes in the sandpit before requesting formal certification via the certification responder.

Refer to Section 2.4 for further details on environments.

A.3   Certification Checker

The Certification Checker is a search screen that allows you to view details of certifications that you have participated in, either as a sender or receiver. The Certification Checker will give the status (pass/fail) of both Window 1 and Window 2 certification.
To view details of completed certifications:

1. From the menu click **AEMO**, then **Partner**, then **Custom** and then **Certification Checker**.
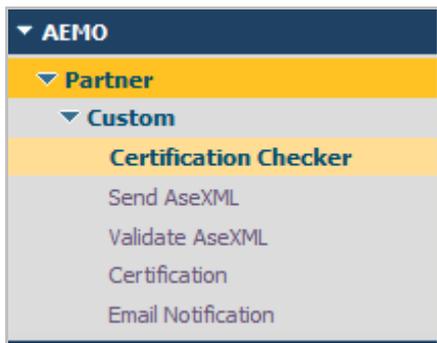
2. The **Certification Checker** window displays.
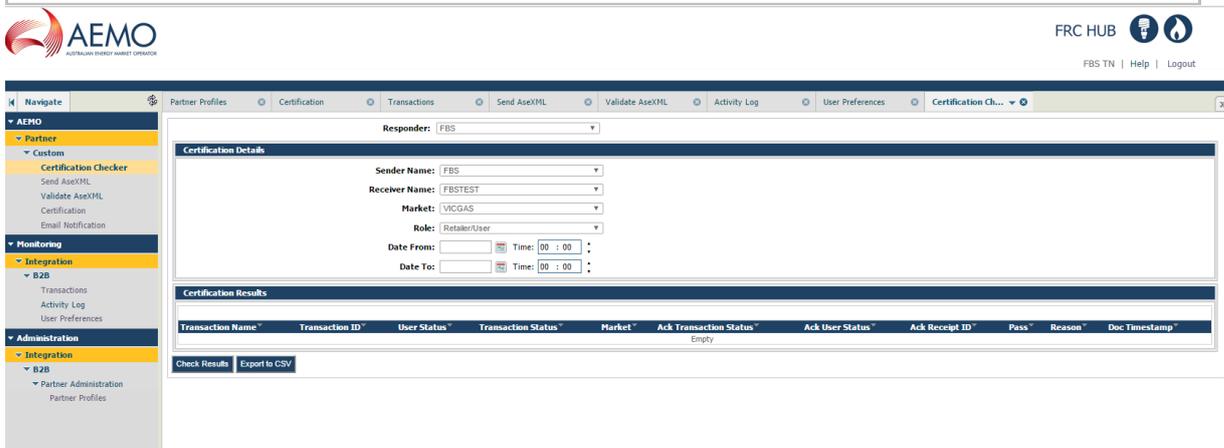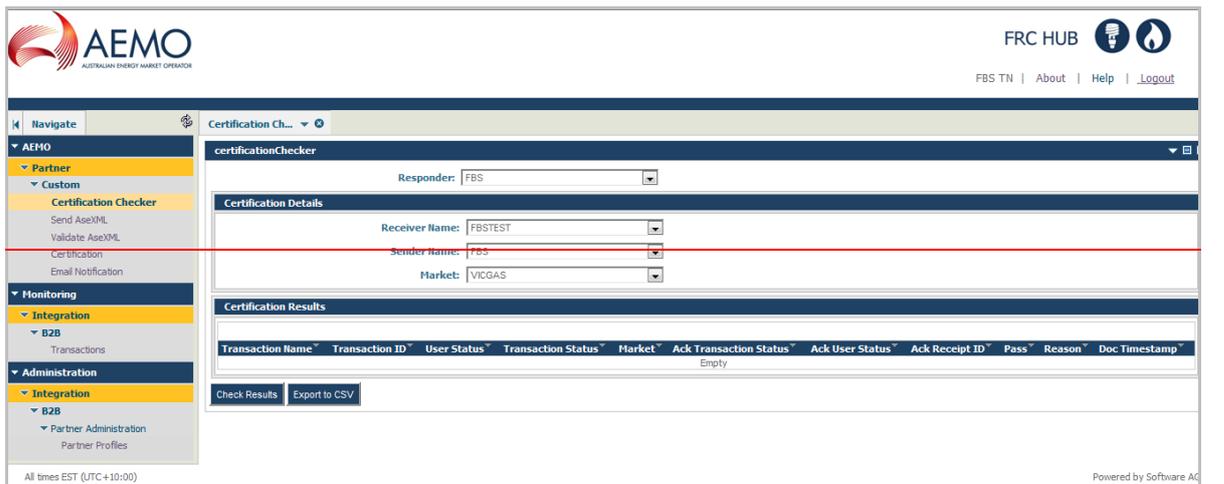
3. Complete the search form fields:

- **Responder:** The responder used to perform the certification.

- **Receiver Name:** The participant receiving the certification transaction.

- **Sender Name:** The participant initiating the certification transaction.

- **Market:** The market used to perform the certification.

- **Role:** The role of the participant in the market (used to determine which transactions are required to be submitted/received)

- **Date From:** The date where transactions/messages should be searched from

- **Date To:** The date where transactions/messages should be searched to

4. Click **Check Results**. The corresponding certification records appear in the **Certification Results** table. The following information displays:

- **Transaction Name:** The name of transaction/message that was submitted in the certification.

- **Transaction ID:** The ID that was returned in the Ack response.

- **User Status:** The status of the aseXML transaction.

- **Transaction Status:** The status of the submitted certification transaction.

- **Market:** The market used to perform the certification.

- **Ack Transaction Status:** The status of the returned ack (Accept/Reject)

- **Ack User Status:** If rejected the reason for the rejection

- **Ack Receipt ID:** The receiptID of the received ack

- **Pass:** Indicates whether the certification passed or failed.

- **Reason:** Reason for a failed certification. 'Pass' is displayed for certifications that have passed.

- **Doc Timestamp:** The time the transaction was sent

5. Click **Export to CSV** if you wish to obtain an export of the search results in CSV format.

A.6 View transaction details

The **View transaction details** window allows participants to search and view transactions that have been submitted to, sent and received by a recipients gateway, and is available on both the Production and PreProduction FRC hubs.

To search for a transaction:

1. From the menu click **Monitoring**, then **Integration**, then **B2B** and then **Transactions**.

2. The **Transactions** window displays.

3. Select the correct **TN Server** from the drop-down box at the top of the window. This field is used to filter the transactions based on a server. If **FBS** is selected, all transactions in which the FBS responder is the sender or receiver displays. Likewise for **HUB** and **FBSTEST**.

Note	To view transactions older than 35 days but less than 1 year, Select **ARCHIVE** server from the **TN Server** drop down.

4. In the **Datasource** section, select the correct **Data Source** from the drop-down box.

Note	To view transactions older than 35 days but less than 1 year, Select **Archived Data** from the data source drop down.

5.4. In the **Search** section, enter desired search criteria and click **Search**.

	To save your search criteria for future searches, click **Save**. You will be prompted to provide a name and description. The search will be saved in the **Saved** tab of the **Search** section.
Note	

6.5. The search results display in the **Transactions** section. The following information displays:

- **Date Received:**

- **Document Type:**

- **Sender:**

- **Receiver:**

- **Processing Status:**

- **User Status:** The Status of all messages received by the gateway should be 'SendMessage:sent'. This indicates that the hub believes that the message was delivered successfully to the gateway. If the hub encountered an error attempting to send to the gateway the Status will be 'SendMessage:err'. If you need to obtain further details regarding the specific error contact FBSAdmin via the Support Hub. The Status of all messages sent to the hub by the gateway should be 'MessageRouting'. If the hub encountered an error while processing the message (i.e. recipient not recognised, digital signature invalid, etc.) the Status will be 'RouteMessage:err'. However, errors encountered while delivering the message to the intended recipient do not get reported on this screen. If you need to determine this information you need to view the Activity Log entries by following the directions below.

- **Document ID:** The ebXML message ID.

- **Conversation ID:** The ebXML conversation ID plus a number generated internally by WebMethods. A Conversation ID is only recorded against messages that have been sent 'From' the participant. It is not recorded against the messages sent 'To' the participant.

- **Related Documents:**

- **Details:**

- **Action:**

Date Received ▼	Document Type▼	Sender▼	Receiver▼	Processing Status▼	User Status▼	Document ID▼	Conversation ID▼	Related Documents	Details	Action
10/02/2015 15:49:32	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 25f58b8e-0864-4a59-85f6-43404ef4751c	VENCORP ENVESTRA VENCORP 25f58b8e-0864-4a59-85f6-43404ef4751c			
10/02/2015 15:48:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP 2f5d9ab3-f42d-4ba9-a3ae-3e11c4e5911d	VENCORP ENVESTRA VENCORP 2f5d9ab3-f42d-4ba9-a3ae-3e11c4e5911d			
10/02/2015 15:47:34	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:err	VENCORP eb196ff7-0a8f-40b6-b0a7-3278128ca0ba	VENCORP ENVESTRA VENCORP eb196ff7-0a8f-40b6-b0a7-3278128ca0ba			
10/02/2015 15:46:33	ebXML Payload	RELAY (RELAY)	ENVESTRA (VIC)	DONE	SendMessage:err	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31			
10/02/2015 15:46:33	aseXML Transaction	VENCorp	ENVESTRA (VIC)	DONE	aseXML Transaction	VENCORP-MSG-d26817357f4e49f8a164c621				
10/02/2015 15:46:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	MessageRouting:proc	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31			
10/02/2015 15:46:33	ebXML Routing	VENCorp	RELAY (RELAY)	DONE	SendMessage:sent	VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31	VENCORP ENVESTRA VENCORP c0211618-5d42-4c74-833c-b8cdd8cdde31			

Note

Participants are only permitted to view documents as they transit between the participant gateway and the hub. Therefore the 'Sender' is always either the participant or the hub, as is the 'Receiver'. Because of this, if a 'Sender' is input the results will only display Sent messages, regardless of the Sender that is input. If a 'Receiver' is input the results will only display Received messages.

7.6. To view details of a transaction, click either the magnifying glass icon 🔍 in the **Details** field, or the date link in the **Date Received** field.

8.7. The transaction details display in the **Transaction Details** section. The **Activity Log** tab is displayed by default. You may also view the transaction **Attributes**, **Tasks**, **Content** and **Comments** by clicking the relevant tabs.

Type▼	Timestamp ▼	Brief Message▼	Class▼	User Name▼	Partner ID	Details
ⓘ	11/02/2015 12:50:00	Processing complete	General	relay		🔍
ⓘ	11/02/2015 12:50:00	Status changed.	General	relay		🔍
ⓘ	11/02/2015 12:50:00	Status changed.	General	relay		🔍
ⓘ	11/02/2015 12:50:00	Routing rule ebXML Send Message selected	Processing	relay		🔍
ⓘ	11/02/2015 12:50:00	Document persisted.	General	relay	FBS - (Certify Responder)	🔍

The **Type** column indicates the type of log entry when you hover over the ⓘ icon. If this is 'Message' the message was delivered successfully. If it is 'Error' the hub encountered an error while attempting to deliver the message.
Not all messages have an Activity Log entry. Messages received by the gateway that were successful do not have an entry. Messages sent from the gateway that were delivered successfully have an Activity Log entry of type 'Message'. Messages both to and from the gateway that encountered an error will have an Activity Log entry of type 'Error'.

9.8. To view the transaction content, click on **Content** tab. The transaction content items display.

10.9. Click on the magnifying glass icon 🔍 in the **DETAILS** column for the item you wish to view. The content displays in a text editor window below.
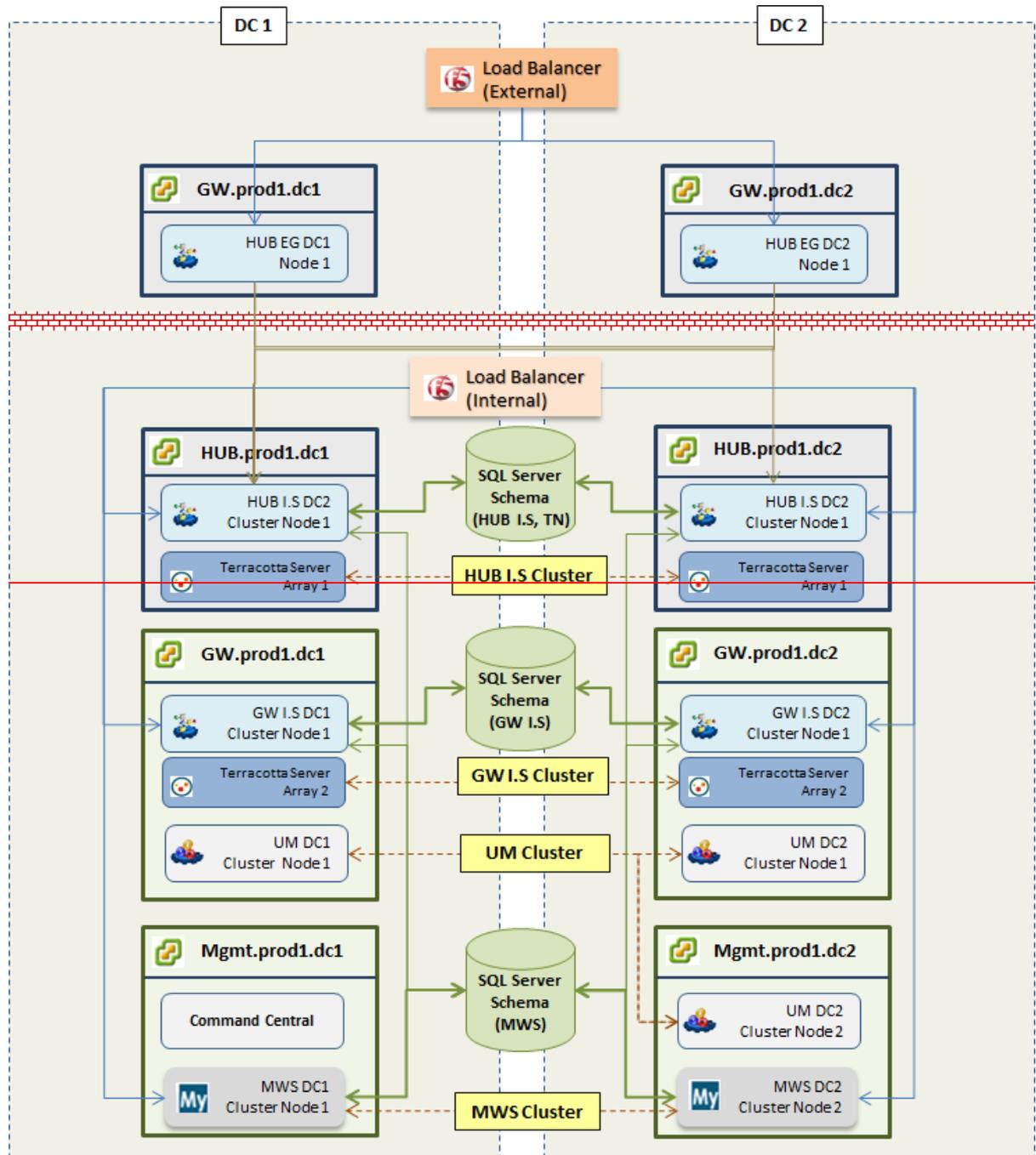
Appendix C   Disaster Recovery Provisions

FIGURE 4 NETWORK TOPOLOGY SHOWING DR PROVISIONS

ATTACHMENT B
Proposed changes: GAS FRC B2B CONNECTIVITY TESTING AND SYSTEM CERTIFICATION (VIC, QLD and NSW/ACT) ~~Red strikeout~~ means delete and <u>blue underline</u> means insert

Responsibilities

FRC Hub Administrator

The FRC Hub Administrator (AEMO) is responsible for operational management of the FRC Hub and provision of Certification Services. This includes:

- o Provision and maintenance of a certification environment
- o Review and reporting of certification tests

E-mail: ~~FBSAdmin~~<u>support.hub</u>@AEMO.com.au

Phone: AEMO Helpdesk 1300 236 600~~, (03) 9609 8000~~

Retail Market Operation (RMO) team

AEMO's Retail Market Operation (RMO) team are responsible for issuing advice on whether certification has been successfully completed. This is done in consultation with AEMO IT application support.

E-mail: rmo@aemo.com.au

3. Preparation for Certification

Applicants will follow these steps to be eligible for certification:

- o Applicants obtain the relevant Build Packs containing process flows, interface definitions and details of system architecture from AEMO. The Build Packs are available from the AEMO website: www.AEMO.com.au

- o Applicants obtain an FRC Gas Hub Participant User Guide and Registration Form from AEMO website or FBSA by e-mail

- o Prior to registering Participants should discuss with AEMO Retail Market Operation (RMO) team and confirm details via e-mail;

- o Participants should discuss requirements with FBS Administrator and then register their intention to undertake certification by e-mail to Support Hub;

- o Applicants connect their Test Gateway to the FRC Test Hub by following the instructions in the FRC Gas Hub Participant User Guide.

- o The FBS Administrator will make available a 'Sandpit' environment for preliminary testing prior to formal certification. Applicants will use this environment to test their systems to prepare for formal certification.

- o Applicants will arrange a time with the FBS Administrator to perform the certification process. This is an important step in the procedure. For FBS Administrator to be able to effectively analyse the results of a certification process it needs to know when the participant started and stopped sending transactions for certification.can commence certification at any time. They should note the start and end time of the certification run so transactions/messages can be analysed later.

- o The applicant will then use the Certification environment to formally certify. Two stages of formal testing will be conducted by the applicant. These stages are described as Window 1, and Window 2. An applicant will need to have successfully completed Window 1 before commencing Window 2.

- o Once completed, the applicant will then use the Certification Checker to ensure their transactions and messages have passed certification.

- o The Participant will then contact Support Hub via email to request a final review by FBSAdmin.

3.1   Certification Window 1 – Messaging (ebXML)

3.3   Certification Notification

When these procedures have been completed, the applicant will utilise the Certification Checker to ensure the certification has passed. Once the Certification Checker has shown all required transactions as passed the applicant will then advise the FBSA, who will review the results of the certification process. When an applicant has been successful, the FBSA will certify that on a technical basis, they are eligible to participate

in the Gas Market, using the transactions for which they have been certified. The FBSA will produce a report advising the applicant and AEMO of the results of the certification process and the eligibility status of the applicant.

1. Certification Process
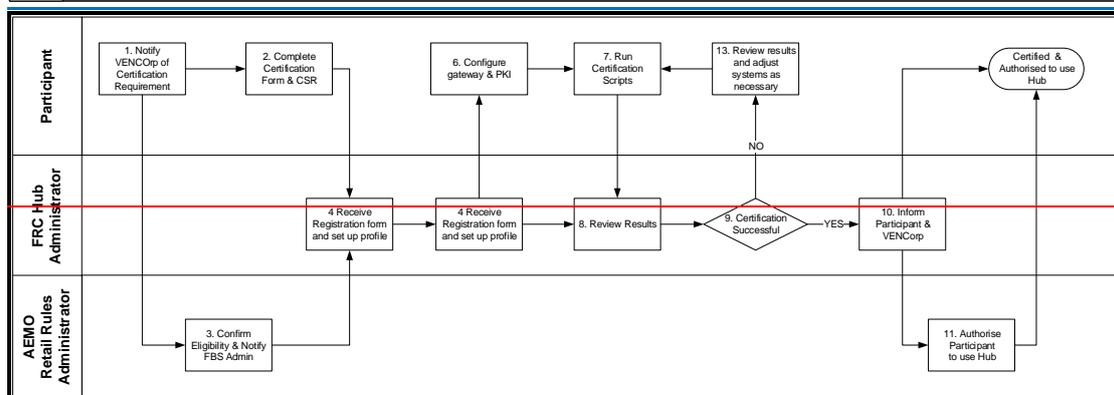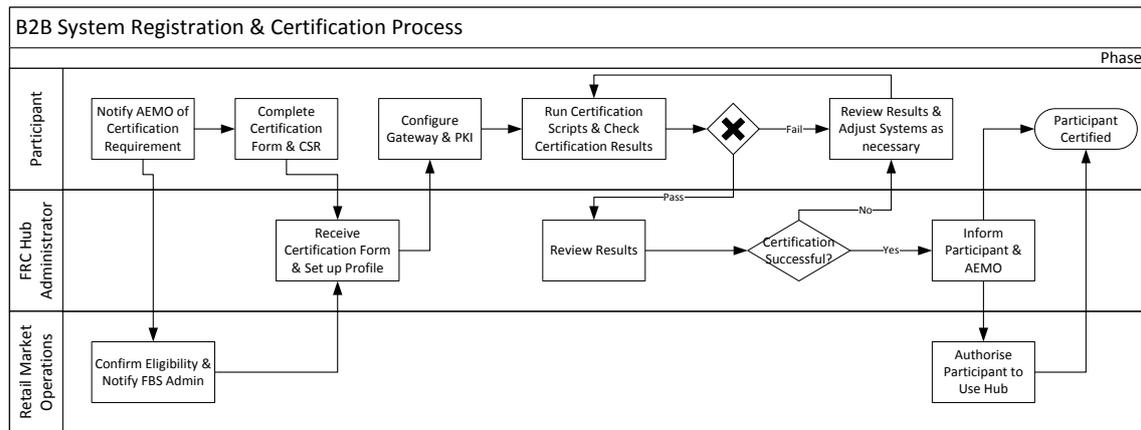
4,1 Communicating with Retail Market Operation (RMO) team and Hub Administrator

Initial contact with the Retail Market Operation (RMO) team or the FBS Hub Administrator should be preferably made via e-mail~~telephone~~. However, to ensure that there are records of key steps during the certification / re-certification process confirmation of key issues should be made via e-mail to the Support Hub.

Contact details for the Administrators are available at the front of this document.

4.2.8 Check Results

The Participant will then utilise the Certification Checker to determine which transactions/messages have passed certification. Once all messages / transactions have passed certification, the Participant will contact Support Hub via email to request a final review by FBSAdmin.

4.2.9 Review Results and Adjust

If the Participant has not successfully completed the test scripts they should review the results via the Certification checker and make the necessary adjustments to their gateway before re-testing their systems.

4.2.8.4.2.10 Review Results

The FBSA will review the results of the test scripts and determine whether the Participant has completed the test scripts successfully.

4.2.9.4.2.11 Outcome of Review

The FBSA determines whether or not the Participant has successfully completed the test scripts they were testing their gateway against and will notify the Participant accordingly.

4.2.12 Review Results and Adjust

If the Participant has not successfully completed the test scripts, they will repeat steps from section 4.2.9

4.2.10 Review Results and Adjust

If the Participant has not successfully completed the test scripts they should review the results of the test process and make the necessary adjustments to their gateway before re-testing their systems.

4.2.11.4.2.13 Inform Participant & AEMO

Once the Participant has successfully completed all the test scripts the FBSA will provide advice to both the Participant and AEMO Retail Market Operation (RMO) team that the Participant has successfully completed the test transactions.

4.2.12.4.2.14 Authorise Participant to use Hub

If AEMO is satisfied with the outcomes of the certification process and the Participant has met their other regulatory and market requirements enabling them to actively participate in the retail market, AEMO will then

1. If relevant - advise other Participants that a New Participant is certified to use the Hub and provide the new Participants ID. New Participants should allow two weeks for other Participant's systems to be updated; and
2. Issue an authorisation for the Participant to actively send transactions through the FBS.

4.2.13.4.2.15 Participant Certified and Authorised to use Hub

At this point the participant is certified to send and receive transactions on the FRC Hub and AEMO has authorised them to use the Hub to conduct business.

NB: Communication of new Participant ID's, and any other information relevant to the operation of the FBS will be via e-mail. These messages will be sent to the communications mailbox nominated when participants register.

Appendix E – Form of AEMO Certification Checklist

Checklist attached can be accessed:
http://www.aemo.com.au/Gas/-/media/F51E518A3AE146B89A529CA68822FFAC.ashx~~http://www.aemo.com.au/AEMO%20Home/Gas/Resources/Information%20Systems/-/media/Files/Other/retailgas/0700-0040%20doc.ashx~~

1.2 Certification Pre-requisites

Applicants will need to create and register a test gateway and back end system, and connect it to the FRC Gas Test Hub to enable certification to take place. Instructions for gateway registration and connection are contained in the FRC Gas Hub Participant User Guide, available on the AEMO website at <u>http://www.aemo.com.au/-/media/Files/PDF/FRC-Hub-Participant-User-Guide.ashx</u>~~www.aemo.com.au/retailops/0700-0039.pdf~~

1.3 Certification Processes

FRC B2B System Registration & Initial Certification Process

FRC B2B System Registration & Initial Certification Process
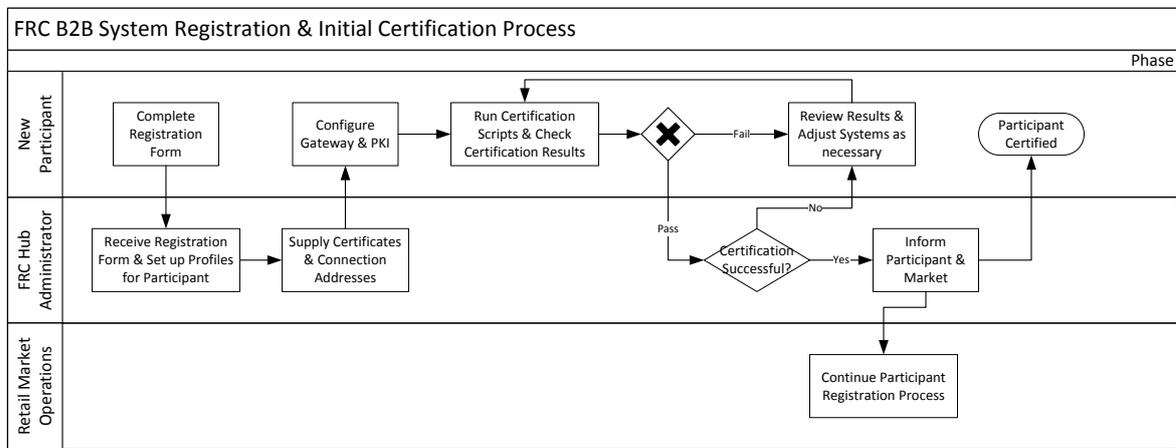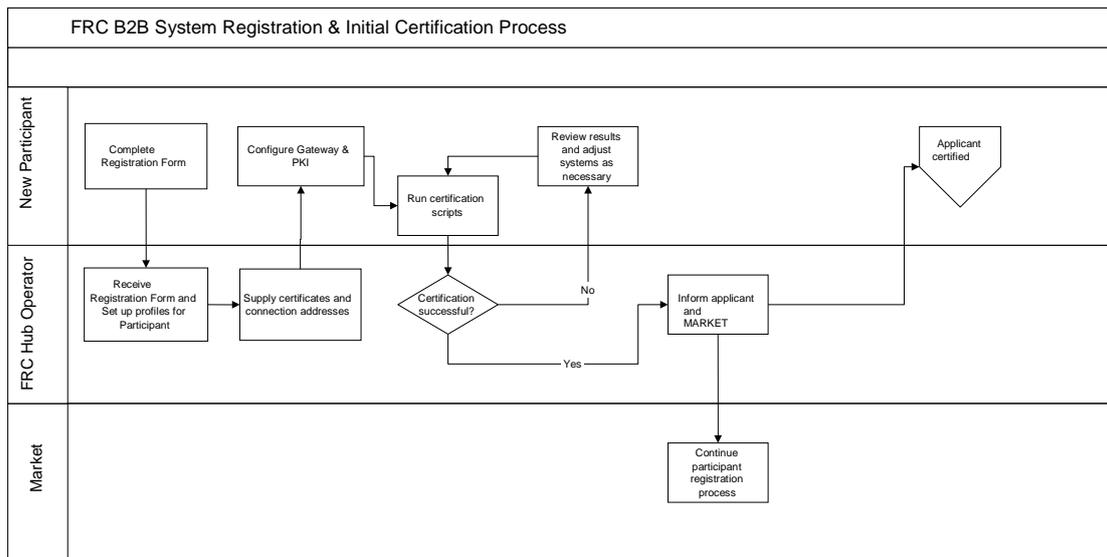
1.3.1 New Participant Certification

Applicants will follow these steps to be eligible for certification:

- Applicants will obtain the AEMO Specification Pack and Information Pack containing process flows, interface definitions and details of system architecture from AEMO

- Applicants will obtain an FRC Gas Hub Participant User Guide and Registration Form from AEMO;

- Applicants connect their test gateway to the FRC ~~Test~~ PreProduction Hub. The FRC Hub Operator will make available a 'Sandpit' environment for preliminary testing prior to formal certification on the Certification Responder;

- Two stages of formal testing will be conducted by the applicant. These stages are described as Window 1 (messaging capability) and Window 2 (transaction capability). ~~An applicant will need to have successfully completed Window 1 before commencing Window 2~~;

- The applicant ~~should notify the FRC Hub Operator of the time at which the applicant plans to undertake certification;~~ can commence certification at any time

- Once the applicant has completed ~~either~~both of the Windows (where required), they must first check the certification has passed via the Certification Checker, and should note the start and end time of the certification run so transactions/messages can be analysed later ~~it must notify the FRC Hub Operator of the time at which it started and stopped sending transactions for certification ; and~~

- The Participant should then request a final review by FBSAdmin via email to Support Hub; and

- The FRC Hub Operator will then analyse the results of the process and will issue a report to the applicant and to AEMO.

1.3.1.1 Certification Window 1 – Messaging (ebXML)

1.3.1.3. Certification Notification

When these procedures have been completed, the applicant will check the certification has passed by utilising the Certification Checker. The applicant will then advise the FRC Hub Operator, which will review the results of the certification process. When an applicant has been successful, the FRC Hub Operator will produce a report advising the applicant and AEMO of the results of the certification process.

4. Contact Information

Below are the contact details for AEMO for matters in relation to:
- Certification of FRC Transactions routed via the FRC
- Certification of FRC Transactions routed via the GRMS FTP Gateway
- Certification of FRC Transactions routed via AEMO GRMS Low Volume Interface

For South Australia and Western Australia

AEMO Contact

Gas Retail Market Operations

Email: supporthub@aemo.com.au

Ph: 1300 236 600

Hub Operator Contact

AEMO FBS Administration

Email: ~~FBSAdmin~~support.hub@aemo.com.au

Ph: 1300 236 600

ATTACHMENT D
Proposed changes: Specification Pack Usage Guidelines
~~Red strikeout~~ means delete and
blue underline means insert

2. Overview of the AEMO Specification Pack

The following table provides an overview of the AEMO Specification Pack. The documents are provided in a directory structure as follows:

Main Directory	Sub-Directory	Documents	Version
Specification Pack	1. Usage Guidelines	Specification Pack Usage Guidelines	6.~~3~~4
	2. Interface Control Document (ICD)	Interface Control Document	4.6
	3. B2B System Interface Definitions	FRC B2B System Interface Definitions	4.1
	4. Transport Layer	FRC B2M-B2B Hub System Specifications FRC B2M-B2B Hub System Architecture	3.8 3.5
	5. CSV File Format	FRC CSV Data Format Specification	3.3
	6. Connectivity and Technical Certification	Connectivity Testing and Technical Certification	3.~~5~~6
	7. Readiness Criteria	Readiness Criteria	2.2
	8. Service Order Specifications	B2B Service Order Specifications, Part 1 and Part 2,	2. 33.3
	9. aseXML Schemas	The complete set of aseXML schemas and examples which participants have subscribed to for SA / WA Gas is available from www.aemo.com.au/asexml	SA – R29 WA – R13

ATTACHMENT E – Consolidated List of Stakeholder Feedback to Proposed Procedure Change

STAKEHOLDER	CLAUSE/SECTION REF.	ISSUE/COMMENT	PROPOSED TEXT RED STRIKEOUT MEANS DELETE AND BLUE UNDERLINE MEANS INSERT	AEMO RESPONSE
Origin Energy	General Comment	Origin accepts the PPC with no comments		AEMO acknowledges Origin Energy's support of the proposed changes.
APA	General Comment	No further comments from APA Group/AGN/Allgas/Central Ranges. Previous comments provided for GMI have been reflected in the PPC.		AEMO acknowledges APA's support of the proposed changes
AGL	FRC Hub User Guide clause 3.6	It is unclear what the process / trigger is for the FBS Admin to review the completed certification. While it is assumed that the participant would contact FBS Admin, clarity on steps would be appropriate.	Once those transactions have passed, the Participant will contact the Support Hub to request a review. FBSAdmin will then do a final review of the transactions and acknowledgements that have been sent by the participant.	AEMO agrees that AGL's feedback adds further clarity to the text and has amended the clause accordingly.
AGL	Gas FRC B2B Connectivity Testing and Sys Certification	Per comment above	• Once completed, the applicant will then use the Certification	AEMO agrees that AGL's feedback adds further clarity to the text and has

STAKEHOLDER	CLAUSE/SECTION REF.	ISSUE/COMMENT	PROPOSED TEXT RED STRIKEOUT MEANS DELETE AND BLUE UNDERLINE MEANS INSERT	AEMO RESPONSE
	(VIC , QLD and NSW/ACT) clause 3		Checker to ensure their transactions and messages have passed certification. • The Participant will then contact Support Hub via e-mail to request a final review by FBSAdmin.	amended the clause accordingly.
AGL	Gas FRC B2B Connectivity Testing and Sys Certification (VIC , QLD and NSW/ACT) clause 3	Comment as per above	4.2.8 Check Results The Participant will then utilise the Certification Checker to determine which transactions / messages have passed certification. Once all messages / transactions have passed certification the Participant will contact Support Hub via e-mail to request a final review by FBSAdmin. The participant will not notify FBSA until all required transactions / messages have passed	AEMO agrees that AGL's feedback adds further clarity to the text and has amended the clause accordingly.

STAKEHOLDER	CLAUSE/SECTION REF.	ISSUE/COMMENT	PROPOSED TEXT RED STRIKEOUT MEANS DELETE AND BLUE UNDERLINE MEANS INSERT	AEMO RESPONSE
			certification	
AGL	Connectivity Testing and Technical Certification (SA and WA) Clause 1.3.1	Per above Also note font seems different in the clauses	Once the applicant has completed either both of the Windows (where required), they must first check the certification has passed via the Certification Checker, and should note the start and end time of the certification run so transactions/messages can be analysed later it must notify the FRC Hub Operator of the time at which it started and stopped sending transactions for certification ; and • The Participant should then request a final review by FBSAdmin via e-mail to Support Hub; and o The FRC Hub Operator will then analyse the results of the process and will issue a report to the applicant and to AEMO.	AEMO agrees that AGL's feedback adds further clarity to the text and has amended the clause accordingly including the font size.