

5MS & GS Readiness Working Group #6

Friday 15th November, 2019

AEMO Offices:

Level 9, 99 Gawler Place, Adelaide

Level 10, 10 Eagle Street, Brisbane

Level 22, 530 Collins Street, Melbourne

Level 2, 20 Bond Street, Sydney

**PLEASE NOTE THIS MEETING WILL BE RECORDED FOR THE PURPOSE OF
PREPARING MINUTES**

Agenda

NO	TIME	AGENDA ITEM	RESPONSIBLE
Preliminary matters			
1	10:00am – 10:10am	Welcome, introduction and apologies	Greg Minney
2	10:10am – 10:15am	Notes, actions and feedback from previous meeting	Greg Minney
Matters for noting			
3	10:15am – 10:25am	Staging environment update	Tui Grant
4	10:25am – 11:00am	Workstream update: <ul style="list-style-type: none"> Managing emerging procedure changes Readiness papers – overview and status Readiness stakeholder engagement Feedback on <i>Industry testing and market trials strategy</i> Feedback on <i>Transition and go-live strategy</i> Risk management update B2B working group update 	Emily Brodie Tui Grant Greg Minney Blaine Miner
Matters for discussion			
5	11:00am – 11:20am	Metering transition plan	Blaine Miner
6	11:20am – 11:50am	Contingency planning	Greg Minney
Other business			
7	11:50am – 12:00pm	Forward meeting plan and general questions	Greg Minney

Notes, actions and feedback from previous meeting

Greg Minney

Responses to RWG meeting actions (1)

#	Topic	Action	Response
5.6.1	B2M APIs, Reallocation APIs	RWG members to provide indication of their intent and timing (if known) to implement Reallocation APIs or B2M APIs as components of their programs	One response: <ul style="list-style-type: none"> participant does not plan to test or use B2M or reallocations APIs at this time
5.6.2	Focus Groups	RWG to provide feedback on timing, duration, format and requests for pre-meeting materials for the RWG risks and issues workshop, and industry testing and cutover focus groups.	Two responses: <ul style="list-style-type: none"> Duration: Both respondents suggested a half day (3-4 hours) Format: <ul style="list-style-type: none"> One supported webex/VC One supported smaller focus groups for risk sessions and contingency sessions, comprising 1-2 of each participant type.
5.8.1	MSP accreditation update plan	RWG to provide feedback on the proposed MSP accreditation approach.	No responses received
5.9.1	Readiness documents	AEMO to develop a consolidated view of the engagement timelines for all readiness documents.	Complete – see 'Workstream update' slides

Staging environment update

Tui Grant

Verbal update on 5MS staging environment

- Verbal update

Reminder: Providing feedback about staging environment

- Questions regarding the program will continue to be directed to the 5MS mailbox and will be addressed as per the current process.
- 5MS Staging support questions received in the 5MS mailbox will be transferred to the support queue for resolution.
- Questions related to 5MS staging can be directed to the AEMO Support Desk.
- The support desk will log all calls received and assigned to them 5MS program support queue.
- The program will be actively monitoring the queue and respond to all tickets.

Workstream update

Emily Brodie and Greg Minney

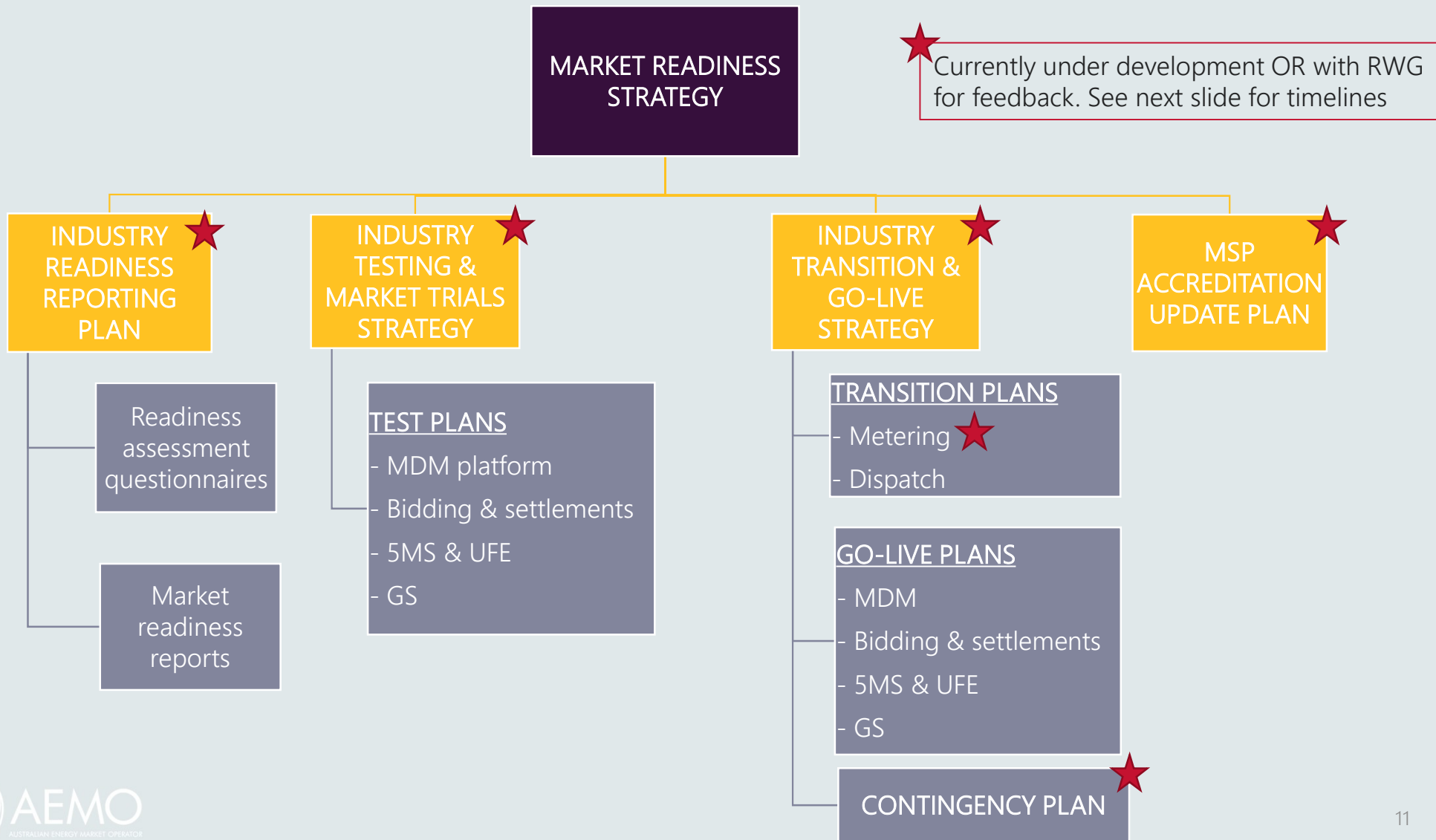
Managing emerging 5MS/GS procedures issues

- Anticipate that procedure changes will emerge as participants' and AEMO's 5MS/GS implementation and testing ramp-up
- As 5MS/GS procedures workstream in hibernation, approach to managing procedures issues is to:
 - Use AEMO's BAU processes to:
 - consider procedure change requests
 - process these changes where appropriate
 - Communicate AEMO's responses to procedure change requests via 5MS/GS engagement channels in addition to BAU channels
 - 5MS program to track 5MS/GS procedures issues/changes via an action log
- 5MS procedures workstream can be reactivated on an ad hoc basis to respond to material procedures issues if need be

BAU channels for procedures issues

Area	Channel
Metering / metering data / standing data	<p>B2M Electricity Retail Consultative Forum (ERCF)</p> <ul style="list-style-type: none">• Follow change process <p>B2B Information Exchange Committee</p> <ul style="list-style-type: none">• Follow change process
Settlements	email: settlements@aemo.com.au
Prudentials	email: prudentials@aemo.com.au
Dispatch	<p>NEM Wholesale Consultative Forum</p> <ul style="list-style-type: none">• email: nemwcf@aemo.com.au

Readiness papers



Readiness papers - timelines

Item	RWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Market readiness strategy	Jun-19	30-Aug	3 weeks	20-Sep	30-Oct
Industry test and market trial strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Transition and go-live strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Metering transition plan	Aug-19 onwards	29-Nov	TBC	TBC	TBC
Industry contingency plan	Nov-19	20-Dec	6 weeks	31-Jan-20	13-Mar-20
Industry readiness reporting plan	Sep-19	31-Oct	3 weeks	21-Nov	13-Dec
MSP accreditation update plan	Oct-19	29-Nov	11 weeks	31-Jan-20	13-Mar-20

NOTE: early feedback on documents is welcome

Readiness papers - timelines

	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20
Market readiness strategy			30-Aug	20-Sep	30-Oct							
Industry test and market trial strategy				30-Sep	28-Oct	29-Nov						
Transition and go-live strategy				30-Sep	28-Oct	29-Nov						
Industry contingency plan							20-Dec	31-Jan		13-Mar		
Metering transition plan: *Feedback period and final publication TBC						29-Nov						
Industry readiness reporting plan					31-Oct	21-Nov	13-Dec					
MSP accreditation update plan						29-Nov		31-Jan		13-Mar		

LEGEND

Early RWG/FG engagement
Draft published
Feedback on draft
Final published

Readiness stakeholder engagement

Past events

- Transition focus group meeting #4
 - Wednesday, 6 November
 - Webex
 - Resolving outstanding items in the metering transition plan, particularly timing

Upcoming events

- Reconciliation support workshop #2
 - Monday, 18 November
 - AEMO offices and Webex
 - To provide in-depth information on UFE reconciliation
- Staging environment open forums
 - Fortnightly: Tue 19 Nov, Tue 3 Dec, Tue 17 Dec
 - WebEx
 - For anyone who has questions about testing in the 5MS staging environment

Proposed events to be discussed at this RWG#6

- Industry testing focus group - December
- RWG readiness risks and issues review (out of session) – Wed 20 Nov
- Contingency focus group workshops – Thu 28 Nov, Fri 13 Dec ☺, Fri 7 Feb

Feedback on Industry testing and market trials strategy (1)

- 12 responses, four of which either had 'no further comment' or a minor comment
- Queries about performance testing (volume): likely infeasible for MDPs to generate this volume of data
- B2B testing of meter read-related information – this can be included in scope
- Main areas of clarification/guidance:
 - Logistics of conducting testing e.g. responsibility roles
 - Use of ServiceNow as testing tool
 - Which test phase will meter and schema changes be tested

Feedback on Industry testing and market trials strategy (2)

- There were a few requests for larger test windows. To be discussed at the first ITWG to assess feasibility (dates, participants etc)
- Queries about first ITWG:
 - Planning first meeting for mid-December
 - Call for nominations will be issued shortly and will include information on experience and expertise required.
 - Nominations due by 22 November to 5ms@aemo.com.au

Feedback on Industry transition and go-live strategy

- 10 responses, two of which had 'no further comment'
- Staged implementation will be the basis of the transition to 5MS/GS
- Consistency sought across all market readiness documents i.e. between strategies and plans
- Better explanation of linkages between documents
- Main areas of clarification/guidance:
 - GS requirements on 1/7/21 vs on 6/2/22
 - Extent B2B transactions are included in scope
 - Metering data delivery
 - Contingency planning

Readiness risk management update (1)

- Proposed out-of-session RWG readiness risk management workshop
- 12pm to 3pm, Wednesday 20 November
- For discussion: face-to-face meeting in one location or via VC at AEMO offices?

Readiness risk management update (2)

- Prior to workshop:
 - AEMO to circulate Industry Risk and Issues Register (including specific readiness risks)
 - Participants to review Register
 - Participants to propose new or varied risks/issues by COB Tuesday 19 Nov.
- In workshop:
 - Confirm risks/issues
 - Incorporate any new, agreed risks/issues
 - Establish/propose mitigations and establish residual level of risk
 - Confirm review points for risk occurrence
 - Cross-reference risks to contingency scenarios
- Updates to be provided to December RWG meeting for:
 - confirmation
 - where relevant, recommendations or escalations to the PCF

B2B WG update on 5MS/GS matters from 29-30 October 2019 workshop (1)

At its October workshop, B2BWG discussed:

1. Issues associated with keeping the B2B MDFF file size consistent with the proposed B2M 5MS for MTRD:
 - B2BWG asked for further information to make assessment following the workshop
 - B2BWG has suggested including in the B2B Procedures v3.4 consultation (commencing late November 2019) a file size of up to 10MB containing a maximum transaction limit of 1000
 - IEC will evaluate B2BWG suggestion over the next 2 weeks
 - Transaction limit has been included in the consultation as the MTRD transaction group includes PMD/VMD transactions – small size transaction that could cause issues of too many included in one file.

B2B WG update on 5MS/GS matters from 29-30 October 2019 workshop (2)

2. Making available B2B transactions for use on Non-contestable unmetered loads includes a change for the NMI Allocation service order adding a NCONUML Customer Type.
3. Adjusting local retailer references in the RoLR Procedures for B2B for the GS change. Same changes as happened for Metering Package 2 for the B2M part of the RoLR Procedures.

Metering transition plan

Blaine Miner

Metering Transition Plan

- TFG met on Wed 6 Nov 2019 via WebEx to continue MTP discussion
- The MTP “Categories” are:
 - Meter installation and reconfiguration
 - Meter data delivery
 - MSATS standing data creation and maintenance
 - MSP accreditation updates

Metering Transition Plan

Category	Key Items	Risks/Concerns	Actions/Next Steps
Meter installation and reconfiguration	<ul style="list-style-type: none"> Boundary, Type 1-3 , subset of Type 4 and existing Cross Boundary meters to be installed/reconfigured by 30 Apr 2021 MP workplans to be provided to AEMO by 31 Mar 2020 for monitoring and risk mgt purposes 	Some meters not being compliant by 1 July 2021	Meter compliance scenario to be included in the 5MS Contingency Plan
Meter data delivery	<ul style="list-style-type: none"> Agreements to the delivery of 5min metering data pre-1 July 2021 between NSP, FRMP, MDP and AEMO to be completed by 28 Feb 2021 <ul style="list-style-type: none"> LR is to be kept informed but can't object to an Agreement being established AEMO can enter into a bilateral agreement for the provisioning of 5min metering data via B2M with an MDP if necessary Where an agreement exists, delivery of 5min metering data to commence via B2B and B2M by 31 May 2021 MDPs to provide indicative/projected workplans for the transition of 5min metering data for type 4, 4A, etc by 1 July 2020 Delivery of tier 1 basic meter metering data (Actuals, Subs and Forward Estimates) to be delivered to AEMO from 1 April 2021 	<p>Agreements will not be reached between applicable parties to receive 5min metering data pre-1 July 2021 (introducing Rule commencement risk)</p> <p>Customer Switching Rule removing the ability for an MDP to object to a transfer where the meter is 5min ready but the MDP is not</p>	<p>Monitor agreement progress to assess 5min metering data delivery risk</p> <p>Consider potential implications of the Customer Switching Rule on the activities contained within the MTP</p>

Metering Transition Plan

Category	Key Items	Risks/Concerns	Actions/Next Steps
MSATS standing data creation and maintenance	<ul style="list-style-type: none"> Cross boundary and NCUL MSATS standing data created by 31 May 2021 NMI Classification Codes (NCC) to be updated as required in line with the new CATS and WIGs procedures by 31 May 2021 LR and FRMP updates to GLOPOOL to be effective from 6 Feb 2022 	<p>Potential NSP BAU impacts re NMI creation due to potential timing disconnect between NMI creation requirement and new NCC availability</p> <p>Delays in agreeing applicable NCUL inventories, profiles and algorithms.</p> <p>Participants not being ready to receive and process new NCCs in line with MTP timings.</p>	Consider risks, monitor and escalate where necessary
MSP accreditation updates	<ul style="list-style-type: none"> Confirm the likely scope/scale of change expected for each 1 July 2021 impacted MPs and MDPs with AEMO by 30 June 2020 All Accreditation documentation to be submitted by 31 Mar 2021 MPs to be Accredited by 30 Apr 2021 MDPs to be Accredited by 31 May 2021 	<p>MP/MDP not accredited at 1 July 2021</p> <p>Majority of applications being received just prior to 31 Mar leading to application processing 'peaks' and resourcing issues.</p>	Ongoing engagement between MPs/MDPs with AEMO re likely scale of changes and accreditation application timings

Metering transition plan – next steps

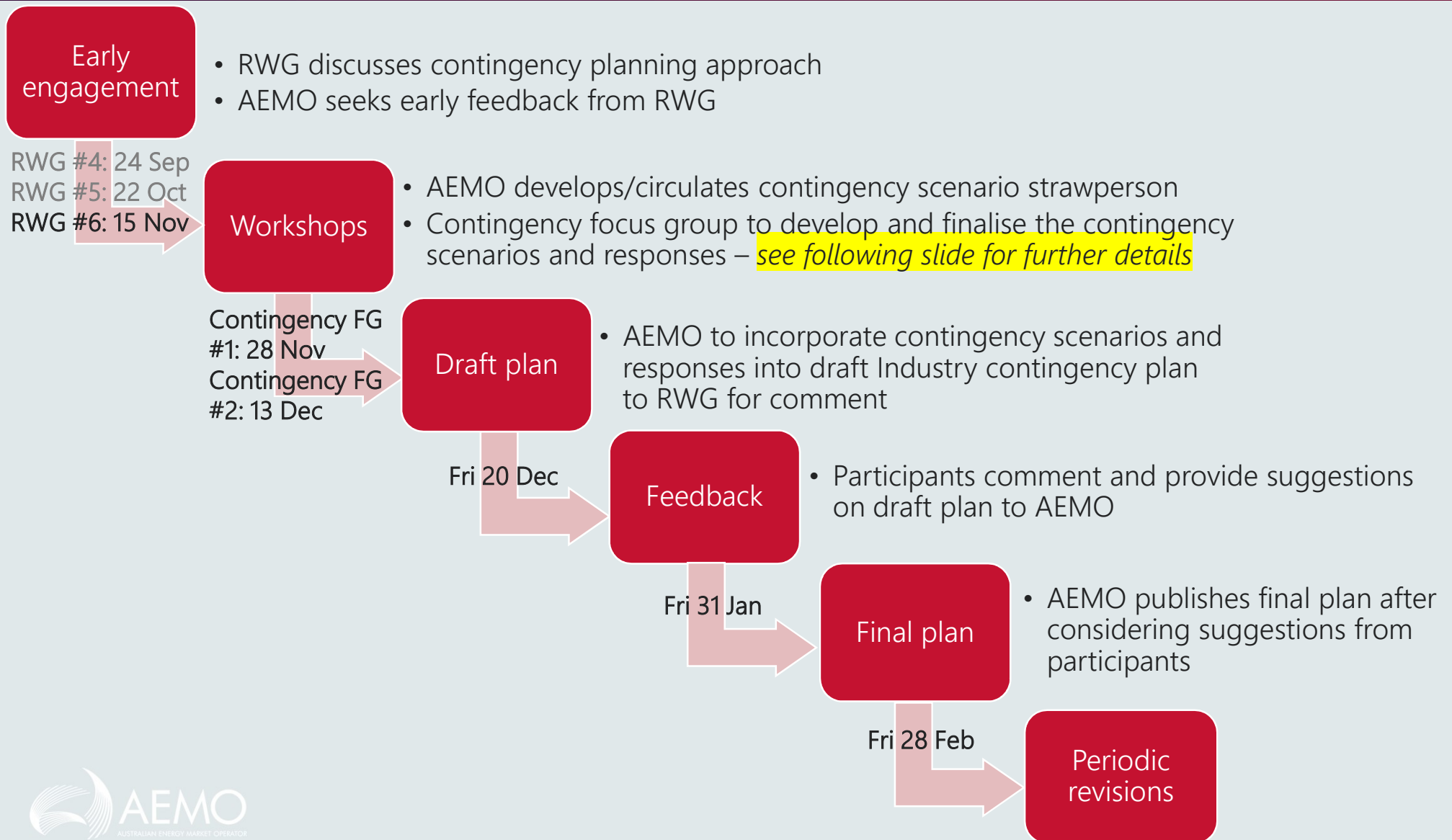
For discussion: Metering transition plan timing

Item	RWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Metering transition plan: Option A	Aug-19 onwards	29-Nov	3 weeks	20-Dec	7-Feb-20
Metering transition plan: Option B	Aug-19 onwards	29-Nov	9 weeks	17-Jan-20	28-Feb-20
Metering transition plan: Option C	Aug-19 onwards	29-Nov	? weeks	?	?

Contingency planning

Greg Minney

Developing the Industry contingency plan (1)



Developing the Industry contingency plan (2)

- **CFG Workshop #1: Scope**
 - Proposed 10am – 1pm, Thursday 28 November
 - Confirm the contingency scenarios to be included in Industry contingency plan
 - Identify scenarios addressed by existing NEM exception procedures
 - Identify trigger points
 - **For discussion: face-to-face meeting in one location or via VC at AEMO offices?**
 - Call for nominations will be issued shortly and will include information on experience and expertise required.
 - Nominations due by 22 November to 5ms@aemo.com.au
- **Debrief to RWG #7**
 - Tuesday 10 December
- **CFG Workshop #2: Actions and responsibilities**
 - Proposed 10am – 1pm, Friday 13 December
 - Assign actions and responsibilities to contingency scenarios
 - **Discussion: should Workshop 2 be split by subject area?**
- **DRAFT Industry contingency plan**
 - Released to RWG for comment Fri 20 December

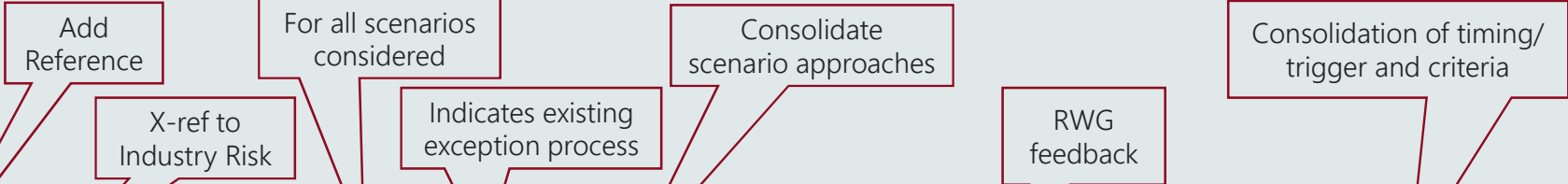
Updated contingency scenario planning format

Previous

Scenario	Likelihood (H/M/L)	Impact (H/M/L)	Priority (H/M/L)	Area (e.g. metering dispatch, settlement, other)	Trigger	Actions	Timing	Decision criteria	Reporting mechanism	Responsibilities

Proposed

Contingency Item	Risk Ref	Scenario	In scope of SMS/GS contingency plan	Addressed by existing exception process	Priority H/M/L	Comments	Area (e.g. metering dispatch, settlement, other)	Affected stakeholders	Actions	Timing /Trigger	Reporting mechanism



For discussion: Initial draft contingency scenarios

- Initial draft industry contingency scenarios on following slides
 - Cross-referenced to Industry Risks and Issues Register
 - Based on transition strategy
 - Platform delivery ahead of rule commencement dates
 - Staged delivery of platforms
 - Identifies those scenarios addressed by current market and operational processes
- Discussion: Is the level of detail in the contingency scenarios appropriate for the development of the contingency plan

Draft Scenarios for review # 1

Contingency Item	Risk Ref	Scenario
C1		Criteria not met to proceed with deploying the MDM Platform
C2		Missing or broken MDM functionality at go-live decisions
C3		Cutover process and production validations not successfully completed for MDM platform deployment
C4		Failure of MDM platform post-implementation
C5		Criteria not met to proceed with the deployment of the settlements platform
C6		Cutover process and production validations not successfully completed for settlements platform
C7		Failure of settlements platform post-implementation
C8		Criteria not met to proceed with deploying the dispatch and bidding platform
C9		Cutover process and production validations not successfully completed for dispatch and bidding platform
C10		Failure of dispatch and bidding platform post-implementation
C11	R02	AEMO 'not ready' to operate within market conditions at rule commencement (R02)
C12	R02	One or more (major) participants 'not ready' to operate within market conditions at rule commencement (R02)
C13		Individual participant system failures pre- or post-implementation of market system
C14	TBC	Wholesale meter/s not compliant at 5MS rule commencement
C15	TBC	Metering data providers not providing 5-minute data as required at 5MS rule commencement
C16		Major event (e.g. natural disaster, load shedding) occurs at time of scheduled system deployment
C17		Major event (e.g. natural disaster, load shedding) occurs at time of rule commencement
C18	R07	Last-minute rule or procedure requirements results in delays to participants' and AEMO programs (R08)



Draft Scenarios for review #2

Contingency Item	Risk Ref	Scenario
C19	R15,R16	Metering participant(s) not accredited at rule commencement (NEW Readiness Risk as per PCF)
C20	TBC	Metering and MSATS standing data not fully available/updated at GS rule commencement (post rev 2) - leading to material settlement difference
C21	TBC	Metering and MSATS standing data not fully available/updated at UFE reporting commencement
C22		5-minute bids not accepted from participants following bidding platform upgrade
C23		Settlement invoice not produced after 5MS commencement
C24		Individual participant bidding upgrade deployment fails
C25		Miscalculations of dispatch information after dispatch platform upgrade
C26		Failure in AEMO bidding / dispatch systems post-deployment
C27	R01, R19	One or more small participants have not implemented programs to address 5MS/ GS at the time of rule commencements (R01)
C28	R12	Changes to B2B procedures have impacted system design requirements (R12)
C29	R17	Failure of B2B and/or B2M networks to process volume resulting in issues for multiple participants on or after 1/7/21
C30	R14	Retailer / DNSP are not capable of processing 5-minute B2B data from 1/7/21
C31		Settlement invoices calculated after settlement platform upgrade reveal inaccuracies in calculation
C32		Settlement invoices calculated after 5MS rule commencement transition reveal inaccuracies in calculation
C33		MDM / platform's performance / reliability does not meet requirements on implementation
C34		Volume of 5-minute meter cutover transitions in post 1/7/21 period cannot be processed by individual retailers
C35		MDP not ready to deliver settlement data in MDFF NEM12 format by 1/7/21
C36		Failure of dispatch and bidding platform after 5MS rule commencement

Initial draft contingency scenarios – contd.

- For input into CFG workshops, RWG feedback requested on:
 - Appropriateness of scenarios
 - Level of detail and clarity of scenarios
 - Additions and refinements needed, taking into account:
 - Industry risks as per Industry Risks and Issues Register
 - Key events e.g. issue of settlement invoices post 1-July
 - Transition strategy staged approach
- RWG feedback requested by Thu 21 Nov to 5ms@aemo.com.au

Forward meeting plan

Greg Minney

Upcoming RWG meetings: Proposed content

- Seeking feedback for proposed content/topic areas

Meeting Date	Meeting	Proposed Content
Tue, 10 Dec 19	RWG#7	<ul style="list-style-type: none">• RWG feedback on readiness reporting plan• Readiness issues and risks session – debrief on workshop and discussion• Industry contingency plan – debrief on workshop and discussion• B2M APIs and Reallocations adoption and testing
Feb 20	RWG#8	<ul style="list-style-type: none">• Transition approaches for B2M APIs and Reallocations• RWG feedback on Industry contingency plan• RWG feedback on MSP accreditation update plan

Upcoming meetings

Meetings and forum dates:

<http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement>

NOVEMBER							DECEMBER						
Su	Mo	Tu	We	Th	Fr	Sa	Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	1	2	1	2	3	4	5	6	7
3	4	5	6	7	8	9	8	9	10	11	12	13	14
10	11	12	13	14	15	16	15	16	17	18	19	20	21
17	18	19	20	21	22	23	22	23	24	25	26	27	28
24	25	26	27	28	29	30	29	30	31	1	2	3	4
1	2	3	4	5	6	7	5	6	7	8	9	10	11

Forums/Working Groups
Executive (EF)
Program Consult. (PCF)
Procedures (PWG)
Systems (SWG)
Readiness (RWG)

Focus Groups
Dispatch
Metering
Settlements
Transition
Reconciliation
Contingency

Other
Information session
National Public Holiday
State Public Holiday*

Current as at 15-10-2019

General questions

Greg Minney

