



# Phase I Market Policy – Proposed Rules

February 14, 2006

# Purpose and Approach

- Rules explanation – Topic of the day
  - Understanding of rules
    - purpose of the rule?
  - Clarity of rules
    - do they say what they mean?
- We have a lot of material to cover
  - Primary goal is to ensure intent of proposal is understood
  - We will record questions for discussion
  - We will attempt to stick to our timeline
  - Questions & Answers/ Discussion Items following presentation
  - Bilateral meetings welcome, if further detail, questions or concerns



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# Proposed agenda – a full slate

	Topic	Tentative Time
1.	Today's Purpose	9:00 – 9:15
2.	Definitions & Offers	9:15 – 10:15
3.	Break	10:15 – 10:30
4.	Dispatching	10:30 – 11:30
5.	Lunch	11:30 – 12:00
6.	Settlement & Info Exchange	12:00 – 1:45
7.	Break	1:45 – 2:00
8.	Questions & Discussion	2:00 – 4:00





# Definitions

# Definitions – Obsolete Definitions

- Asset Schedule
- Forecast Schedule
- Scheduling Program

Price can be changed up to T-2 versus the day/week ahead time period for the current schedules

- Locking Restatement

Now a form of energy restatement



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# Definitions – Obsolete Definitions

- MW capacity
- supply shortfall directive
- supply shortfall energy
- total declared energy

Replaced by Available Capability Provisions



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# Definitions – New Definitions

- Available Capability

Defined for must offer provisions; is the hourly physical capability

- Maximum Capability

Physical capability under optimal conditions; pricing must be offered for all maximum capability MW



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# Definitions – New Definitions

- **Import Marginal Price**

Price used to determine which importers are considered out of merit, and which generators are paid

- **Out of merit dispatch period**

Time that generators are paid for out of merit imports

- **Energy Production Uplift**

The amount paid to suppliers on the margin



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# Definitions – New Definitions

- **Marginal Price**

Is the block that sets pool price

Modify references of “SMP” to “MP” throughout rules where appropriate

- **Reference price**

- Price block assigned to a generator providing TMR

- To be used in pool price calculation



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# Definitions – Modified Definitions

- Acceptable operational reason

Limits AOR reasons for repositioning to AS stand-by market

Adds provision for physical or operational constraint on the interconnection

Adds provision for repositioning for energy produced solely on that property and solely for that person



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# Definitions – Modified Definitions

- “Day-ahead Submission” now “Current Submission”
- “forecast pool price” now “forecast system marginal price”
- Asset, asset marginal price, bid, energy market suspension, forecast marginal price, in merit, offer, pool price, sink asset, source asset, system marginal price, trading day

No significant change to intent/usage (may be redefined in terms of new rules/definitions)





# Supply Shortfall Rules

# Supply Shortfall Rules

- Delete rule 2.2.10 Supply Shortfall Costs
- Delete portions of 6.3.4 to remove references to Category I, II and III
- Removal of reference in Rule 8.1
- Delete Appendix 6 Terms and Conditions for Category I, II and III Generating Assets





# Offers & Bids

# Rule 3.5.1 Block Allocations

- Reorganization of rules
  - For clarity
- Provide import assets with 7 blocks
  - To facilitate offering prices
  - Similar to AB generators



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## 3.5.2 Submission Timing

- Reorganization (no substantial change)
  - Day-ahead confirmation of Available Capability
  - May offer week ahead
  - May submit standing offer or bid



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## Rule 3.5.3.1 Offers and Restatements

- Participants 5 MW and greater must submit an offer
- The maximum capability (MC) must be offered
- The available capability (AC) must equal MC
- Differences between MC and AC must be supported by an acceptable operational reason (AOR)



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## 3.5.3.2 a) Mandatory Energy Restatements

- Can only be submitted for an AOR
- Functionally similar to energy restatements today



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## 3.5.3.2 a) Energy Restatement

Block	\$/MWh	MW
6	999.99	400
5	500	350
<hr style="border-top: 1px dashed black;"/>		
4	250	225
3	100	175
2	50	150
1	10	120
0	0	100

This portion of the offer WILL NOT appear on the Energy Market Merit Order

Available Capability = 325 MW

This portion of the offer appears on the Energy Market Merit Order

Maximum Capability = 400 MW

Available Capability = 325 MW



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## 3.5.3.2 b) Energy Restatements

- Cannot comply
- Price restatement cannot be submitted (within T-2)
- Restatement of Available Capability cannot accommodate the change
  
- Similar to Locking Restatements today
- Prices cannot be changed
- Redistribution of quantities (MW)



## 3.5.3.2 b) Energy Restatements

Block	\$/MWh	MW
6	999.99	400
5	500	350
4	250	225
3	100	175
2	50	150
1	10	120
0	0	100



Block	\$/MWh	MW
6	999.99	400
5	500	350
4	250	350
3	100	350
2	50	350
1	10	350
0	0	350



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## 3.5.3.5 b) AS dispatch

Block	\$/MWh	MW
6	999.99	400
5	500	350
4	250	225
3	100	175
2	50	150
1	10	120
0	0	100

This portion of the offer WILL NOT appear on the Energy Market Merit Order

Available Capability = 300 MW

Energy Market Dispatch Level = 200 MW

This portion of the offer appears on the Energy Market Merit Order

Maximum Capability = 400 MW

Available Capability = 300 MW

AS Dispatch = 100 MW



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### 3.5.3.3 Voluntary Price Restatements/ T-2

- Revise prices any time up to T-2
- Changes how Maximum Capability is allocated
- Does not change Available Capability



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# Price Restatements

Block	\$/MWh	MW
6	999.99	400
5	500	350
4	250	225
3	100	175
2	50	150
1	10	120
0	0	100



Block	\$/MWh	MW
6	999.99	400
5	500	300
4	250	225
3	100	176
2	75.50	175
1	10	150
0	0	120



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## 3.5.3.4 Additional Information

- Reorganization of existing rules
- Specifically requesting time required to synchronize with the AIES from off-line state  
Used for proposed rule 6.3.5 Long Lead Time Energy Dispatch



## 3.5.4 Bids - Restatements

- Required for systems alignment with offers
- Voluntary Price Restatements
  - Revise prices any time up to T-2
- Compulsory Energy Restatements
  - Must do so in timely manner



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## Rule 3.7 Standing Offers and Bids

- Must offer obligation impacts
- Standing offer/bid is the default
- AC will default to the submitted outage schedule
- Move bid default provision of rule 3.9 to rule 3.7



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# Adequacy Assessments

## 5.0 – Adequacy and Price Forecasting

- Providing forecast daily and weekly adequacy assessments
- Providing short term forecast system marginal prices
- Move rule 5.4 Equal Price Offers or Bids from Scheduling to Dispatching Rules (Rule 6.3.4)



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# Dispatching & Pricing

## 6.3.3 Interconnection Dispatching

- Treatment of imports as intra-AB generators to extent possible
- Permitted to set the marginal price
- Advance energy market dispatch 70 minutes prior to the start of the settlement interval
- Dispatch level based on forecast load & imports up to ATC



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## 6.3.3 Interconnection Dispatching

- All projected in merit import blocks are dispatched
- Energy restatement required if e-tag quantities total less than the dispatch quantities
- E-tag quantities cannot total more than the dispatch quantities



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# Dispatching Imports

Import 5 50 MW \$60	← Forecast Load
Gen 5 200 MW \$57	
Import 4 200 MW \$55	ATC = 425 MW
Gen 4 100 MW \$50	
Import 3 75 MW \$47	
Import 2 150 MW \$45	
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Import 1 100 MW \$25	
Gen 1 100 MW \$20	

- All Imports below forecast SMP are provided an advance energy dispatch at T-70
- In this example, Import 1, 2, 3 and 4 are dispatched for a total of 525 MW
- Import 5 not dispatched
- Must comply with dispatch
  - Total dispatch can be greater than ATC
  - Constraint with interconnection is AOR



# Dispatching Imports

Import 5 50 MW \$60	← Forecast Load
Gen 5 200 MW \$57	
Import 4 200 MW \$55	ATC = 425 MW
Gen 4 100 MW \$50	
Import 3 75 MW \$47	
Import 2 50 MW \$45	
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Import 1 100 MW \$25	
Gen 1 100 MW \$20	

- E-tags to be submitted no later than T-20
- Import 2 was dispatched for 150 MW, but E-tag is for 50MW due to transmission constraint on interconnection
- Import 2 **must** restate offer to 50 MW prior to T
  - Pool price reconstitution
  - Out of merit dispatch charge
- Import 2 will be re-dispatched



## 6.3.5 Long Lead Time Energy Dispatch

- Generating assets with a  $> 1$  hour start time must submit the time of day it expects to synchronize
- Time of day must  $\geq$  to the time required to start, but no later than 2 hours prior to the start of a settlement interval.
- May withdraw its intention to start up to 2 hours prior to the start of the settlement interval



## 6.3.5 Long Lead Time Energy Dispatch

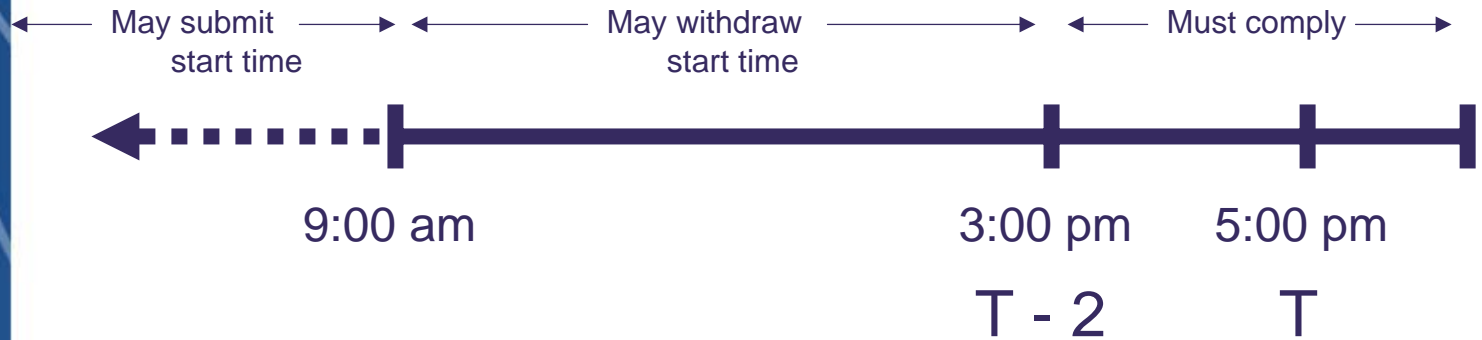
- No energy market dispatch unless the time of day is submitted
- The SC will not make a supply shortfall request if it is “too late” to make themselves available
- Ensures that shorter lead time units are not unnecessarily requested to start



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# Long Lead Time Energy Dispatch



- Generator Initial Start-up time: 8 hours (cold start)
  - Submitted in ETS
  - Provision for warm or hot starts prior to T-2
- Start time: 5:00 pm
  - Submitted in ADaMS



## 6.3.8 Pool Price Determination

- Reconstitution for imports & TMR
- Import asset will not set the System Marginal Price
  - Import may set the Marginal Price
- The pool price becomes the time weighted average of the 60 minute 'marginal prices'



## 6.3.8 Pool Price Determination

- The marginal price is:
  - the SMP unless there is an out of merit import or a dispatched TMR unit with a reference price higher than the SMP
  - \$1000/MWh if there is involuntary load curtailment (no change)
  - As prescribed in energy market suspension rules (no change)



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# Marginal Pricing

Import 3 50 MW \$60	
TMR (Ref) 50 MW \$57	
Import 2 200 MW \$55	← MP
Gen 6 100 MW \$50	
Gen 5 75 MW \$47	← SMP
Gen 4 50 MW \$45	
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Import 1 100 MW \$25	
Gen 1 100 MW \$20	

- Gen 5 fully dispatched - setting SMP at \$47
- 200 MW import dispatched above SMP
- 50 MW TMR dispatched above SMP
  - Reference price TBD; for demonstration purposes only
- 200 MW import + 50 MW TMR sets MP at \$55 (250 MW above Gen 5 dispatch quantity)



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## 6.6 Pool Participant Non-Compliance...

- Must comply rules
- Will be considered in non-compliance when dispatch is declined
- Tolerance levels remain unchanged
- Compliance Rules (Rule 12) continues to apply



## 6.9 Energy Market Suspension

- Clarify that we will use last available merit order to dispatch and set MP
- Aligns with today's Dispatch Tool outage process
- Will become more transparent to stakeholders; no pool price reconstitution during this time



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# Settlement

## New 8.1.2 Payment to Suppliers on the Margin

- Alignment of Settlement & Dispatch
- Eligible to receive production uplift if:
  - Operating block receives an energy market dispatch; and
  - Offer price is greater than pool price; and
  - Energy production is greater than previous cumulative block MW volume



# Eligibility

- Dispatched up to \$250/MWh during the hour
- Pool price = \$150/MWh
- Average Rate Meter Volumes = 187 MW
  - 187 MW > 175 MW

## Gen A Offer

Block	\$/MWh	MW
6	999.99	400
5	500	350
4	250	225
3	100	175
2	50	150
1	10	120
0	0	100



## New 8.1.2 Payment to Suppliers on the Margin

- If meter volumes are  $\leq$  the amount dispatched, then they receive uplift for all the additional meter volumes provided
- If meter volumes are  $>$  the amount dispatched, then they receive uplift only up to the dispatched amount



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# Formula Definitions

A = energy production (metered volumes)

B = previous dispatched block (cumulative)

C = dispatch level of the eligible block (cumulative)

D = offer price

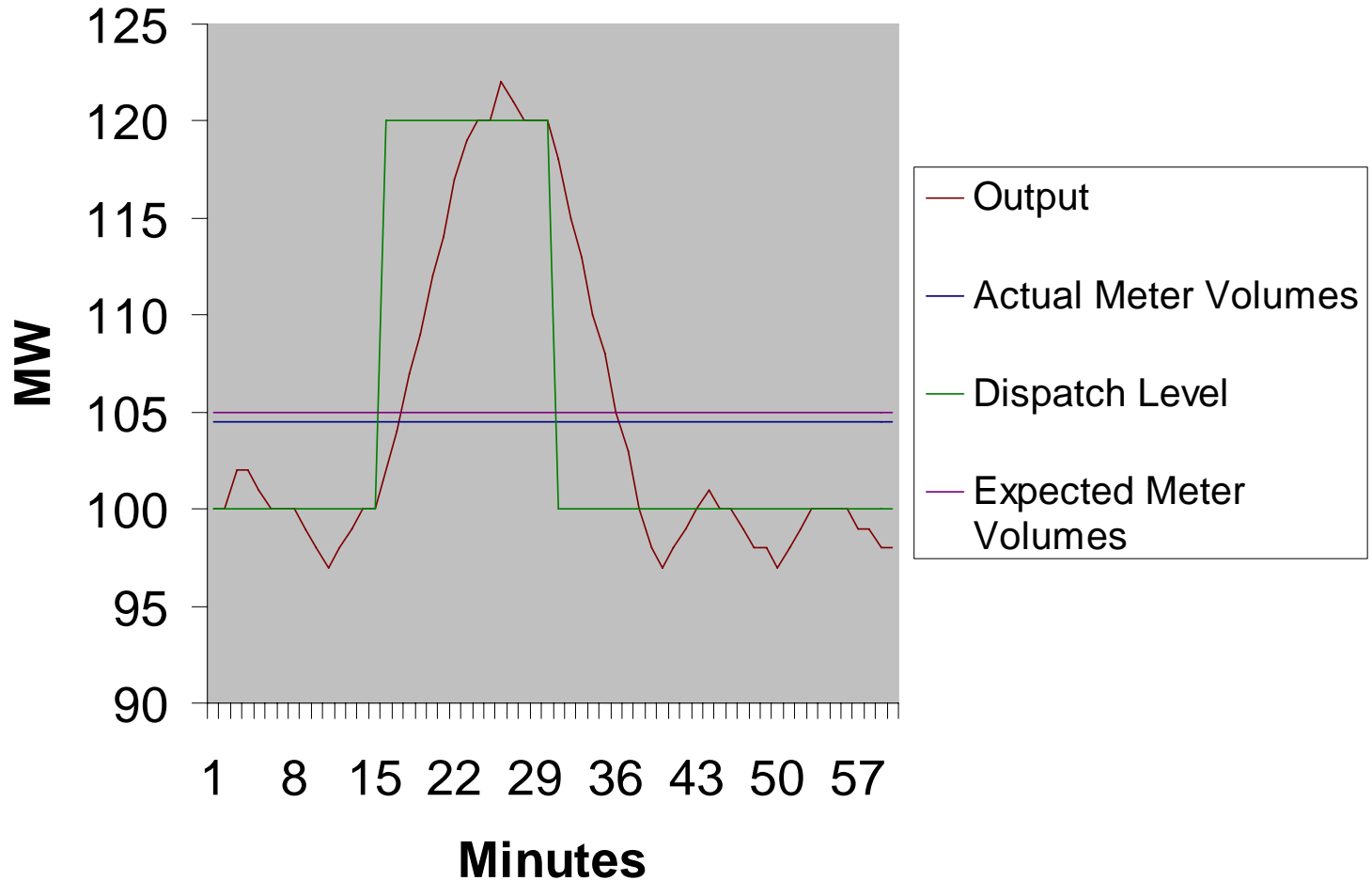
“marginal dispatch time” = minutes the block is dispatched above pool price



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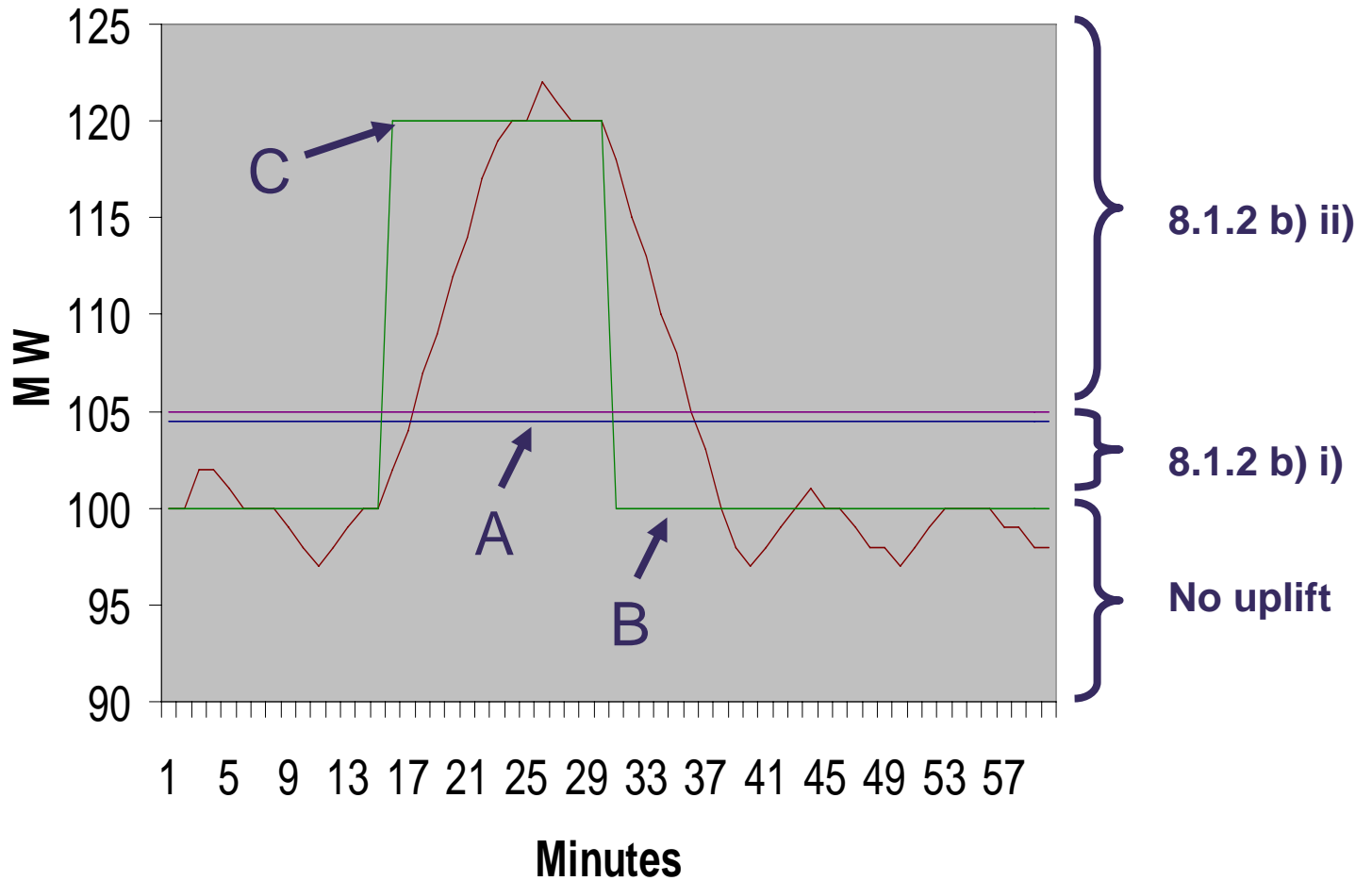
# Payments to Suppliers on the Margin Dispatch versus output



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# Payments to Suppliers on the Margin



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# Multiple Block Eligibility

Marginal Prices:

\$55 for 50 minutes

**\$100 for 8 minutes**

**\$250 for 2 minutes**

Pool Price: \$67.49

Meter Volumes: 176 MWh

## Gen A Offer

Block	\$/MWh	MW	
6	999.99	400	
5	500	350	
4	250	225	} Eligible
3	100	175	
2	50	150	} Not Eligible
1	10	120	
0	0	100	



# Multiple Block Eligibility

A = 176 MW (Meter volumes)

B = 175 MW (Previous block)

C = 225 MW (Dispatch level)

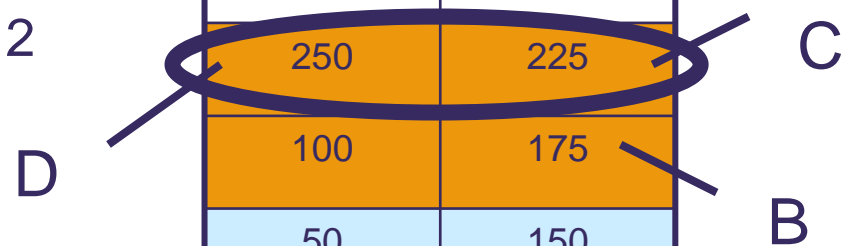
D = \$250/MWh

Marginal Dispatch Time: 2 min

Pool price \$67.49

## Gen A Offer

\$/MWh	MW
999.99	400
500	350
250	225
100	175
50	150
10	120
0	100



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## Rule 8.1.2 b) i)

- If (A minus B) is less than or equal to [(C minus B) multiplied by marginal dispatch time divided by 60]
  - $(176 - 175) < [(225 - 175) \times 2/60]$
  - $1 < 1.66$
  - Metered volumes are within expected dispatch; calculation based on actual metered volumes

- Then energy production uplift = (A minus B) multiplied by (D minus pool price)

$$\text{Energy production uplift} = (176 - 175) \times (\$250 - \$67.49)$$

$$\text{Energy production uplift} = \$182.51$$



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# Multiple Block Eligibility

A = 176 MW

B = 150 MW

C = 175 MW

D = \$100/MWh

Marginal Dispatch Time:

8 min + 2 min = 10 min

Pool price \$67.49

## Gen A Offer

\$/MWh	MW
999.99	400
500	350
250	225
100	175
50	150
10	120
0	100

The table is annotated with labels A, B, C, and D. A blue oval highlights the row with a price of 100 \$/MWh and 175 MW, which is labeled 'C'. The row with a price of 50 \$/MWh and 150 MW is labeled 'B'. The row with a price of 100 \$/MWh and 175 MW is also labeled 'D'.



## Rule 8.1.2 b) ii)

- If (A minus B) is greater than [(C minus B) multiplied by marginal dispatch time divided by 60]
  - $(176 - 150) > [(175 - 150) \times 10/60]$
  - $26 > 4.16$
  - Metered volumes are higher than expected dispatch; calculation limited to dispatch
- Then energy production uplift = (C minus B) multiplied by (D minus pool price) multiplied by marginal dispatch time divided by 60

Energy production uplift

$$= (175 - 150) \times (\$100 - \$67.49) \times 10/60$$

Energy production uplift = \$135.46



## 8.2.3 Settlement for Suppliers on the Margin

- As per policy paper, allocated to energy consumption in the hours it was paid

Energy production uplift share in \$ = (sum of all energy production uplifts) multiplied by the pool participant's energy consumption divided by sum of all pool participant's energy consumption



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## 8.2.3 Settlement for Suppliers on the Margin

Sum of Energy Production Uplift: \$182.51 + \$135.46

Pool Participant's energy consumption: 100 MWh

Total energy consumption: 8000 MWh

Energy production uplift share charge

=  $\$317.97 \times 100 \text{ MWh} / 8000 \text{ MWh}$

= \$3.97



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## 8.1.3 Out of Merit Dispatch Payment

- Generators not producing because of an out of merit import will receive the difference between their offer price & “import marginal price” for the minutes displaced
- “Import marginal price” creates distinction between units constrained down for imports and TMR



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## 8.1.4 Out of Merit Dispatch Charge

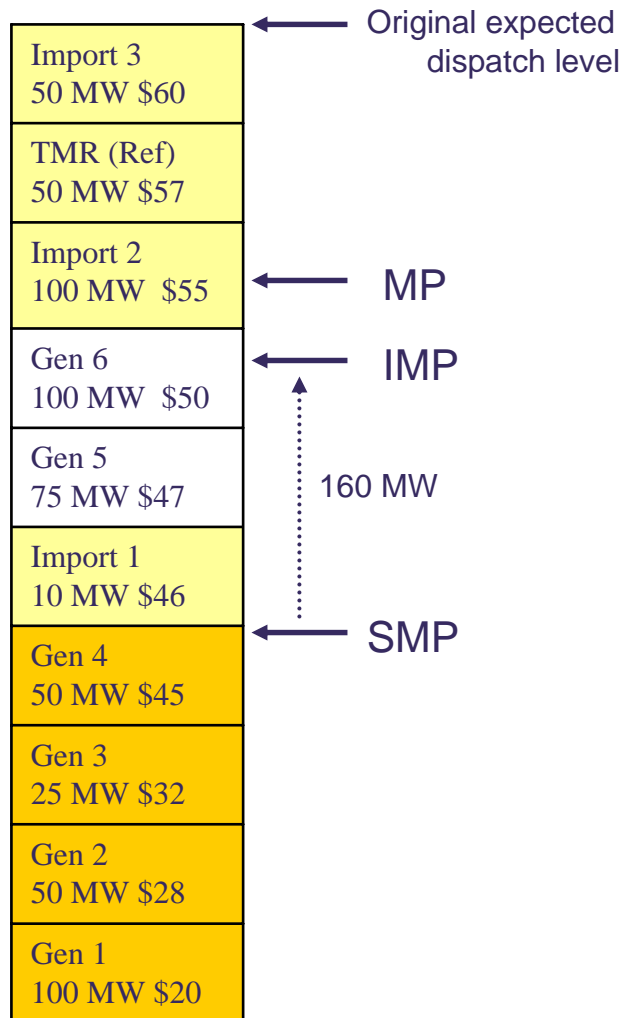
- Sum of all payments made to generators allocated to all importers above IMP in those minutes
- Pooled charge, prorated on MWs out of merit



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# Import Marginal Price Determination



- Gen 4 fully dispatched - setting SMP at \$45
- 160 MW import dispatched above SMP
- 50 MW TMR dispatched above SMP
  - Reference price TBD; for demonstration purposes only
- Example will be for 15 minutes



# Charge Qualification

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

- Import 2 and Import 3 must pay Out of Merit Dispatch Charge because they are greater than or equal to IMP
- Import 1 does not pay a charge because it would have been in merit
- 150 MW “out of merit” imports – 150 MW generation will receive payment



# Payment Qualification

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

- Gen 5 and Gen 6 qualify for Out of Merit Payment because they are:
  - Greater than SMP
  - Less than or equal to IMP



# Payment Qualification

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

- Gen 7 does not qualify for an out of merit payment because it would not have been in merit
- Import 1 does not qualify for an out of merit payment, since it is dispatched on



# Out of Merit Dispatch Quantities

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

- Start at SMP, count up merit order 160 MW for Imports above SMP
- Import 1
  - 10 MW (dispatched)
- Gen 5
  - Out of merit dispatch quantity = 75 MW
- Gen 6
  - Out of merit dispatch quantity = 75 MW
  - 25 MW would have been out of merit



# Payment Calculation

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

Out of Merit dispatch payment  
 $= (\text{IMP minus Offer Price})$   
 multiplied by Out of Merit  
 dispatch quantity multiplied by  
 out of merit dispatch period  
 divided by 60

Gen 5  
 $= (\$50 - \$47) \times 75 \text{ MW} \times 15/60$   
 $= \$56.25$

Gen 6  
 $= (\$50 - \$50) \times 75 \text{ MW} \times 15/60$   
 $= \$0$



# Out of Merit Dispatch Charge

Import 3 50 MW \$60	
Gen 7 50 MW \$57	
Import 2 100 MW \$55	
Gen 6 100 MW \$50	← IMP and MP
Gen 5 75 MW \$47	
Import 1 10 MW \$46	
Gen 4 50 MW \$45	← SMP
Gen 3 25 MW \$32	
Gen 2 50 MW \$28	
Gen 1 100 MW \$20	

Out of Merit Dispatch Charge =  
sum of out of merit payments  
multiplied by importer's out of  
merit energy production  
divided by sum of all  
importers' out of merit energy  
production

$$\begin{aligned} & \text{Import 2} \\ &= \$56.25 \times 100 \text{ MW} / 150 \text{ MW} \\ &= \$37.50 \end{aligned}$$

$$\begin{aligned} & \text{Import 3} \\ &= \$56.25 \times 50 \text{ MW} / 150 \text{ MW} \\ &= \$18.75 \end{aligned}$$





# Information Exchange

# 10.0 Information Exchange

- For 6 day forecast and day-ahead forecasts no longer providing:
  - pool price forecasts
  - sensitivity to forecast pool price +/- 150 MW and 400 MW
  - bid/offer spreads



# 10.0 Information Exchange

- Will provide:
  - 6 day and day-ahead demand forecast & aggregate supply (provided today)
  - adequacy assessment for 7 day period (Replacement for “asset schedules”)
  - forecast SMP within 2 hours prior
  - forecast pool price during the hour



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# Participant Adequacy Report

## Supply Adequacy Report

HE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
02/02/06 Thu	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Dark Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
02/03/06 Fri	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Red	Red	Red	Red	Red	Red	Red
02/04/06 Sat	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Red	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
02/05/06 Sun	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
02/06/06 Mon	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
02/07/06 Tue	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green
02/08/06 Wed	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green	Light Green

- = Committed generation within 400 MW of the top of the merit order (>400)
- = Committed generation within 200 MW of the top of the merit order (200 > < 400)
- = enough committed generation to maintain 7% reserve requirements.
- = not enough committed generation to maintain 7% reserve requirements.
- = not enough committed generation to maintain 3.5% reserve requirements.





## Next Steps

# Next Steps

- Rule Consultation/Feedback: Due March 3
- Post comments to website
- Assess Feedback/Next Steps:
  - Recommendation to Executive Rules Committee: Mid-March
  - Potential Implementation Date: April 1



**aeso**

ALBERTA  
ELECTRIC  
SYSTEM  
OPERATOR



# Questions