

AESO Working Session on Mothball Outages

September 23, 2016

public



Agenda



- Introductions
- Purpose of Working Sessions
- Background
 - Review of Principles
 - Process Overview
- Considerations for Discussion
- Next Steps

Purpose of the Working Session



- To gather input from stakeholders on whether mothball outages are an appropriate mechanism in Alberta's market design framework.
- To facilitate industry dialogue on the issue to assist the AESO in making an informed decision.

Background



- ISO Rule 306.7 Mothball Outage Reporting and the definition of mothball outage
 - Effective June 7, 2016
- Prior Stakeholder Engagement
 - Session on July 25, 2016
 - Sought input to established a process to explore whether mothball outages should be implemented as permanent feature in the Alberta market design (phase 1) and if implemented what would be required (phase 2)
 - Communicated principles: fairness, efficiency, openly competitive/transparency, reliability (details attached in Appendix)

Background (continued)



- The AESO sought written comments from stakeholders on August 23, 2016 which were received on September 16, 2016.
 - Comments were posted on the AESO website.
- The AESO scheduled two three-hour sessions focusing on capturing relevant considerations
 - Dialogue to be facilitated by the AESO
 - AESO to capture major discussion points
 - The AESO may post meeting summaries, as appropriate
- Further written comment from stakeholders upon closing of the working sessions

Considerations for Discussion



- The AESO is proposing that stakeholder comments, in combination with further considerations by the AESO, can be grouped into these categories:
- Phase 1
 - The Impact of Mothball Outages on the Price Signal (Price Fidelity)
 - Is mothballing a barrier to entry?
 - 3. Economic vs Physical Withholding
 - Alternatives to Mothballing
- Phase 2 (deferred until a determination regarding phase 1 has been made)
 - Transparency of unavailability of generation
 - Cost recovery/compensation for reliability-related ISO directives to generating units

Consideration: Impact of Mothball Outages on the Price Signal (Price Fidelity)



Key Questions

- What is the impact of mothball outages on the effectiveness of the price signal to convey meaningful and accurate information about supply/demand conditions in the Alberta wholesale power market?
- Do mothball outages differ from other types of unavailability in potentially distorting the price signal?
- Can potential distortions to the price signal be mitigated? If so, how?

Next steps

 determine whether there are qualitative/quantitative impacts of mothball outages on the price signal

Consideration: Is mothballing a barrier to entry?



Key Questions:

- Are there trade-offs between market certainty and stability vs. economic and operational flexibility?
- Does allowing for or disallowing mothball outages present a barrier to entry for investment in generating assets in Alberta?
 - Can this be mitigated? If so, how?

Consideration : Economic vs Physical Withholding



- Key Questions
 - Economic vs. physical withholding?
 - Mothballing vs. physical withholding?
- Further Discussion
 - Legislation, Regulation, and ISO Rules pertaining to mothballing
 - Applicability of DoE Recommendations (2005)

Consideration: Alternatives to Mothballing



Key Questions

- If no mothballing, then what?
- What is the relationship between retirements, outages, and other restatements to AC? Do the differences warrant different treatment?
- Hypothetically, how do the principles apply to a retirement and subsequent return of a generating unit?

Further Discussion

- Nature of the unavailability
- Typical timeframes of unavailability

Next Steps



- Working Session #2
 - Feedback on the structure of the working session?
- Final written comment from stakeholders on the issue
- AESO to determine further steps
 - Depending on the outcome as to whether mothball outages will be implemented as a permanent feature in the Alberta market design framework

Further Questions?



• Please contact Will Chow:

- Telephone: 403 539 2786

- Email: william.chow@aeso.ca



Appendix



Principles – Fairness



- Fairness applied to all stakeholders
 - For incumbent participants and potential new entrants into the Alberta wholesale power market
 - Applied to all market participants
- Limiting undue market uncertainty
 - The market should have accurate information about future supply conditions in the market
- Barrier to entry
 - Does the uncertainty about the possible return of mothball capacity deter new investment in generation?
- Undue burden on generators during times of high supply cushion

Principles – Economic Efficiency



Economic Efficiency

- Maintaining the fidelity of the price signal in the long and short term
- Enabling long-term economically efficient outcomes that are fair to both generator and load participants
- Enabling rational and predictable business decision for market participants based on economic fundamentals

Principles – Openly Competitive/Transparent



- Transparency of outage activity
 - Appropriate notification to market participants regarding unavailability of generating capability
 - Appropriate reporting of unavailability of generating capability
- Mothball-specific reporting
 - What details would be appropriate?

Principles – Reliability



- Supply adequacy
 - Assessment that the AESO performs to determine whether action is required to ensure supply adequacy
 - Short Term adequacy measures
 - Long Term adequacy measures
- Directives to generating units
 - Long lead time assets
 - Generating units on planned outage
 - Generating units on mothball outages
- Minimum return times for units on mothball outage
 - Identifying assets that could assist in meeting supply adequacy issues