

MGBRT & MLP in EDAC

EDAC Operations Design Working Group
April 16, 2009



- Daily Generator Data (data that can be changed on a daily basis in EDAC only)
- Review of MGBRT and MLP in adjacent markets
 - How daily changes are managed
 - Reliability & Market implications
- Implementation of Daily Generator Data in EDAC

Daily Generator Data

- Registered generator data that can be updated on a daily basis in EDAC only:
 - Minimum Loading Point (MLP)
 - Minimum Generation Block Run Time (MGBRT)
 - Minimum Down Time
 - Maximum Number of Starts per Day
- Submission from 6:00 to 14:00 on the pre-EDAC day in an electronic format (subject to validation/approval rules)
- Registration data is default data and will be used in EDAC unless revised through a daily submission (does not change registration data)
- Validation will be performed on submission

- At the request of stakeholders, IESO reviewed the use of MLP & MGBRT in neighbouring markets
- IESO paper “Minimum Loading Point in EDAC” can be found:
 - On the portal under – Design Working Group Documents/Reference Documents
 - On the web - <http://www.ieso.ca/imoweb/pubs/consult/se21-edac/se21-edac-20090129-MinimumLoadingPoint.pdf>

- Treatment of MLP & MGBRT in Neighbouring Markets:
 - Different names for MLP but similar application: Economic Minimum Limit (ISO-NE); Hourly Economic Minimum Level (MISO); Minimum Generation limit (NYISO); Economic Minimum Generation limit (PJM)
 - Daily changes submitted as part of offer data
 - Limitations imposed on daily changes through benchmarking or compliance investigations

- Potential Market and Reliability impacts of unrestricted changes
 - Reduced dispatch flexibility
 - Reduced synchronized reserve
 - Moving Incremental Energy costs to uplift
 - Possible price impacts
- Risk of not receiving a commitment in EDAC if MLP or MGBRT are increased

- Daily changes to MLP & MGBRT in EDAC:
 - Daily updates to default values (registered values) between 6:00 & 14:00
 - Registered MLP & MGBRT values must be based on the physical characteristics of the generator
 - No approval required for daily changes within a bandwidth established at registration
 - Approval required for daily changes outside of established bandwidth (reason code and comment required)