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2015 10-Year Assessment Preliminary Needs

Stakeholder and Customer Presentation – February 16, 2015 Josh Kerr

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Purpose

- Assumption reminders
- Summarize preliminary changes to needs
- Solicit input on needs
- Public Policy Requirements reminders
- Next steps



Preliminary Key Messages

- Load forecast growth slightly higher in early years, but has a slightly lower long-term growth rate relative to 2013 Assessment.
- Generation assumption changes
- Impacts of implementing TPL-001-4
- Continue to participate in Regional Studies
- Result some need date changes, new needs, and eliminated needs



Core Assessment Studies

2014 TYA		2015 TYA	
Model	Year(s) Studied	Model	Year(s) Studied
Summer Peak	2015, 2019, 2024, 2029	Summer Peak	2016, 2020, 2025
Shoulder	2019, 2024	Shoulder	2020, 2025
40% Minimum Load	2015, 2019	40% Minimum Load	2016, 2020



Sensitivities being analyzed

- 90/10 2025 Summer Peak
- No bias cases
- Generator Retirement Study



Generator Retirement Study

Assumptions

- At least 50 years old by 2030
- Primarily Coal or Diesel
- Exclude conversions to natural gas, or pollution controls
- Roughly 1,700 MW retired (study assumption only)
- 2025 Summer All-Project Peak model
- Power will be made up with imports into ATC

Sensitivity being considered

- Generators in the MISO DPP cycle added to retirements
- Roughly 1,500 MW of generation added (study assumption only)
- Not proposing additional projects



Gen. Retirement Continued

Retirements (study assumptions only)	Additions
Biron, Dafter, Detour, Edgewater 3 & 4, Escanaba, Gladstone, Kraft, Lakefront 5 & 6, Manistique, Melissa, Munising, Nelson Dewey, Newberry Village, Portage, Presque Isle, Pulliam, Shiras2, Thilmany, Weston 1 & 2, White Pine	 J293 J384 J390 J394 J395



Generation Dispatch Changes

- Studies without Pulliam 5,6 and Weston 1
- ATC Net Interchange Comparison to 2014 TYA
 - 2016 Peak: 16 MW reduction to exports
 - 2020 Peak: 140 MW reduction to imports
 - 2025 Peak: 140 MW reduction to imports



Preliminary Need Changes

- Potential needs
 - P2-1
 - Low voltage at Charter
 - P3-2
 - Overload at City Limits
 - Long lead time
 - Low voltage near Boscobel
- Potential needs eliminated
 - 1 Generation increase isn't materializing

 - 1 Need eliminated by resurveying line
 15 potential need eliminations, continued low load growth



Public Policy Requirements

- Following Attachment FF Processes
- Previously Identified Requirements
 - State Renewable Portfolio Standard (RPS) Mandates
 - EPA Regulations
 - State Mandates and Goals for Energy Efficiency (EE) and Demand Side Management (DSM) Programs
 - No New Requirements from the October 2014 Study Design review with stakeholders
- For the 2015 10-Year Assessment, assessing combined impacts using:
 - Expected Load Forecasts from LSEsGeneration Additions

 - Generation Retirements
 - Multiple Year Analysis over a range load levels
 - Minimum
 - Shoulder
 - Peak
 - High Load Sensitivity
 - Updating Potential Refirements Study
- Any public policy driven needs that may not be covered by the Assessment process?



Process Status

Completed 2014

- Requested load forecast from LDCs
- Sent final load forecast back to LDCs
- Process and assumptions meeting
- Suggested sensitivity studies

Next Steps

- Preliminary solutions meeting/presentation
- Develop cost estimates
- Draft study write-up
- Complete multiple outage study
- ATC review/approval
- 2015 Assessment publication



Questions?

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Load Forecast Trends



