

OHIO VALLEY ELECTRIC CORPORATION

Open Planning Meeting

November 30, 2011

Presentation by Jonathan (Jon) Riley
AEP East Transmission Planning

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Outline

- History
- Changes affecting the OVEC transmission system
- Participation in the Reliability *First* Process
- Monitoring PJM, MISO and LGEE Developments
- OVEC Planning Study Process
- Review of Recent Studies
- Feedback from Stakeholders
- Next Steps
- Questions

Ohio Valley Electric Corporation (OVEC)

- OVEC was formed in the early 1950s by its neighboring utilities to supply the DOE's uranium enrichment facility in Southern Ohio
- Due to its critical function, OVEC's system was designed using stringent planning criteria with multiple interconnections
 - Load served was about 2,000 MW
 - Current load at facility – approximately 35 MW

Ohio Valley Electric Corporation (OVEC)

- OVEC owns 2 generating stations, with approx. 2,250 MW of nameplate capacity
- OVEC has a network of approx. 776 circuit miles of 345 kV lines in Indiana, Kentucky and Ohio

RECENT, ONGOING or UPCOMING CHANGES

Kyger Creek

- Breaker replacements and relay upgrades (in progress)
- Scrubber installations

Clifty Creek

- Scrubber installations

Dearborn

- Retire Breakers DA & DD (in progress)
(creates Clifty-Buffington ckt.)

RECENT, ONGOING or UPCOMING CHANGES

(continued)

- AEP
 - Possible unit retirements

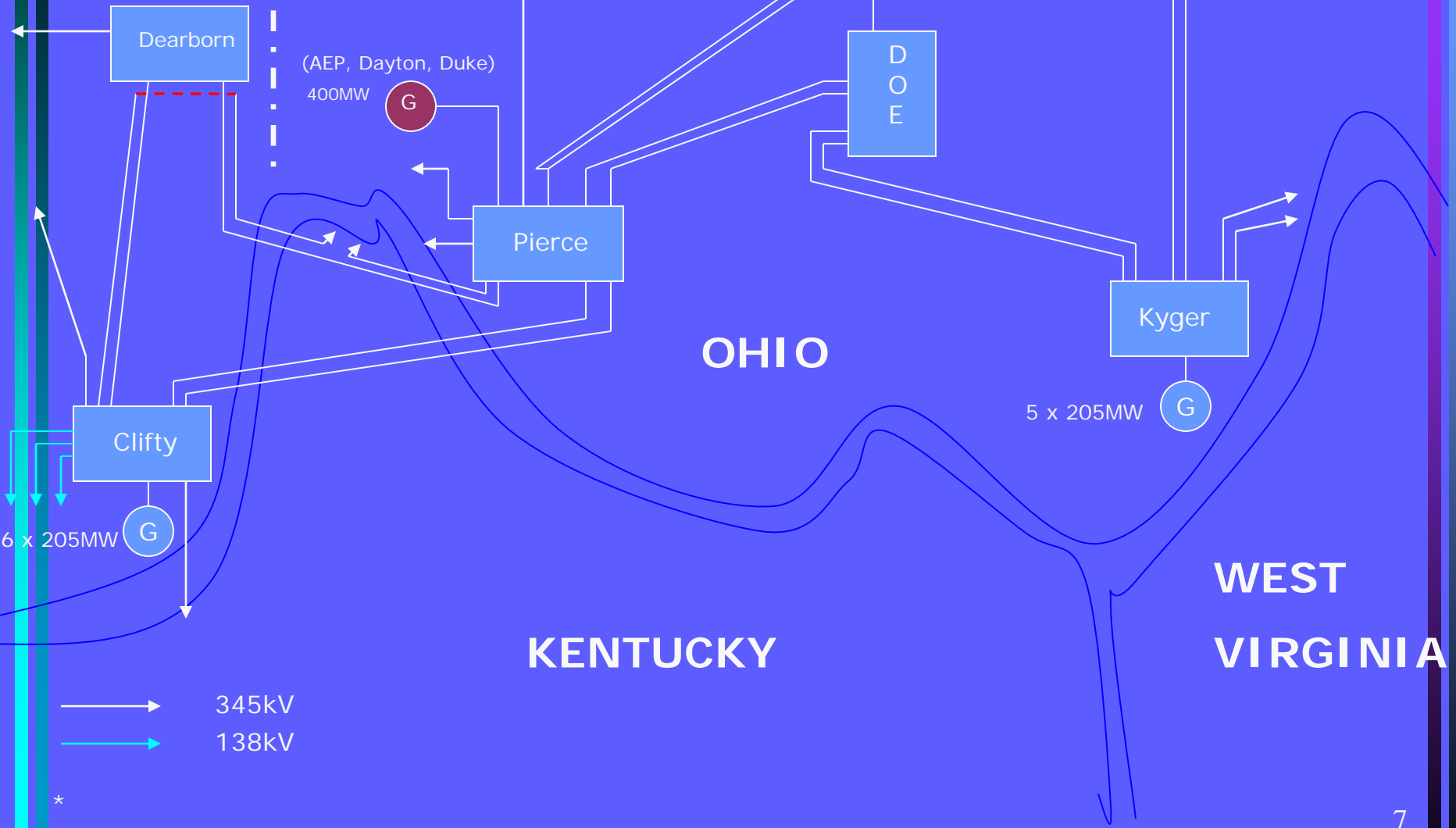
- Duke Energy
 - Ohio & Kentucky move to PJM
 - Possible unit retirements

- DOE
 - Possible replacement of X530 station

- LG&E
 - Monitoring possible additional tie to DEI

Present & Planned OVEC Transmission System

INDIANA



WEST VIRGINIA

OHIO

KENTUCKY

→ 345kV
→ 138kV

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Participation in Reliability *First* Process

- Model development
- Transmission Performance Subcommittee (TPS)
- TPS Study Teams:
 - Seasonal
 - Near-term
 - Long-term

Monitor Developments in Neighboring Areas

- Generator Interconnection Queues
- MISO ad hoc study groups
- Stakeholder in Southeastern Inter-Regional Participation Process (SIRPP)

Recent Studies

Reliability *First* Corporation studies

(NERC Category A, B, and part of C)

Seasonal: 2011 Summer, 2011 Fall,
abbreviated 2011/12 Winter

Near Term: 2016 Light Load

Long Term: 2020 Summer

OVEC studies

- Built on RFC or ERAG/MMWG models as available
- Sensitivity analyses:
 - Generation levels at nearby plants
 - Transfers: W-E, S-N
 - Transmission Facility Status
- Category A, B, C, D conditions/contingencies

OVEC studies

- perform complete assessment to meet TPL-001 – TPL-004 requirements
- RFC study results provide supplemental evidence of compliance with some TPL standards

OVEC 2011 Planning Studies

- Draft report posted 11/03:
 - Highlights, pp. 6-7
 - Any additional comments or changes?

Results

- OVEC facilities now planned and approved meet NERC TPL-001 thru -004
 - Continue to monitor unit retirements
 - Review & Monitor Clean Line projects
 - Continue to participate in SIRPP
 - Continue to monitor RTEP & MTEP

Input From Stakeholders

- Any comments on draft report?
- One question received to date - related to recent TLR activity (late October-early November 2011
 - Relates to Operational Planning, under RC control, not “Transmission Planning” requirements
- Others?

NEXT STEPS

- Finalize report

QUESTIONS?