

# Transmission Adequacy Issues

## NERC Activities

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U.S. Department of Energy  
NIETB Workshop

Salt Lake City, UT  
July 14, 2004



# NERC Board Assignments

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**February '02** — Board approves “**Transmission Expansion: Issues and Recommendations**”

**June '03** — Board requests the PC

- To consider further actions NERC could take in the resource adequacy and transmission adequacy areas and
- To report recommendations to the Board
- PC forms Resource and Transmission Adequacy Task Force (RTATF)

**June '04** — Board approves RTATF report



# RTATF Scope – Key Activities

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- **Summarize existing adequacy criteria and practices of the ten RRCs and the ISO/RTOs**
- **Summarize procedures used to develop and approve the existing criteria, including assessment practices, and compliance reviews of those assessments**
- **Recommend further actions that NERC should pursue in resource adequacy and transmission adequacy**



# Recommendations – NIETB Related

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## *Recommendation 4*

**NERC, in conjunction with the Regions, should periodically sponsor conferences or workshops to provide a forum for sharing planning practices and procedures. These forums should be geared toward the identification of best practices and procedures.**



# Recommendations – NIETB Related

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## *Recommendation 5*

**NERC shall review current interregional assessments and, as required, make recommendations to the Regions to enhance those assessments and improve coordination and efficiency. (May require SAR)**



# Recommendations – NIETB Related

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## *Recommendation 6*

**NERC shall develop assessment practices and reporting processes to verify that resources identified by load serving entities (LSEs) to meet resource adequacy requirements are simultaneously deliverable to the LSEs' loads. The assessment practices shall also determine whether the simultaneous import capabilities are sufficient to satisfy the import capability assumptions included in the resource adequacy assessments.**



# Recommendations – NIETB Related

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## *Recommendation 8*

**NERC and the Regions shall encourage greater regulatory (state/province commissions and multi-state/province commissions) and stakeholder participation throughout the transmission planning and assessment processes to help ensure informed facility siting and transmission adequacy decisions.**



# Other Recommendations

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## *Recommendation 1*

**NERC should expedite the transition of the existing planning standards to new organization reliability standards.**

## *Recommendation 2*

**Among other items, the new reliability standards should clearly define the key elements of an acceptable mitigation plan to achieve compliance with the standard(s) and a general process to ensure implementation of the mitigation plan. (May require SAR)**



# Other Recommendations

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## *Recommendation 3*

**The PC shall annually review and recommend to the CCMC those NERC planning standards that should be incorporated into the NERC compliance review program.**



# Other Recommendations

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## *Recommendation 7*

**NERC shall compile information on regional transmission adequacy criteria and practices. The compilation shall include transmission planning and operating standards including those established by Regions, subregions, ISOs, and RTOs, as well as any interregional standards. The information shall be publicly available through the NERC website and other appropriate links. The information shall be updated and evaluated on a periodic basis.**



# Existing Transmission Adequacy Criteria & Practices

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- **Well documented in NERC's existing planning standards and the criteria of its Regions**
- **Seven of ten Regions and all ISO/RTOs have criteria that go beyond NERC standards**
- **Many transmission owners have criteria additional to that of the Regions and NERC**



# Existing Transmission Adequacy Criteria & Practices

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- **All Regions undergo compliance reviews by NERC**
- **One Region (ERCOT) is reviewed by a regulatory body**
- **Three Regions and three ISO/RTOs have sanctions for failure to comply with standards or criteria**



# Existing Transmission Adequacy Criteria & Practices

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## *NIETB Related*

- **All Regions and most ISO/RTOs perform seasonal assessments**
- **Longer-term assessments predominantly look at a ten-year horizon**
- **All Regions in the EI perform interregional assessments**



# References

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For more details see:

- “Transmission Expansion: Issues and Recommendations” February 2002
- “Resource and Transmission Adequacy Recommendations” June 2004
- Available at the NERC Web site [www.nerc.com](http://www.nerc.com) and go to “Reports and Publications” Fast Link

