

# Session IV: Summary

## Title III (Ted Finnessy)

- DPA / Title III Overview
- Goals of Title III
  - Business and Technical Analysis
- Metrics
- Dual Use Approaches / Impacts
- Title III New Starts
- Summary

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## Title III (Ted Finnessy)

Title III authorizes the Federal Government to provide appropriate incentives to develop, maintain, modernize, and expand the productive capacities of domestic sources for critical components, critical technology items, and industrial resources essential for the execution of the national security strategy of the United States.

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## Title III (Ted Finnessy)

- Title III authorities enable government to address the industrial base
- Synergy of technical and business objectives focused on long-term economic viability and technology insertion
- Broad participation enhances leverage
- Clear Dual-Use applications
- Title III Program has proven performance and innovative execution

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## Getting the Metrics Right (David Lindsay)

- Tc, Jc, Je, \$/kAm, A-m, etc.

## **\$/system-MVA/meter/30yr life**

- Must be Judged vs. Copper XLPE cost
- Engineers at a utility will ALWAYS find alternative solutions to solve problems
- Tc, Jc, Je, \$/kAm, A-m, etc. – combined and reformulated
- The metrics are not simple any more!
- What are the right metrics for a particular HTS device in a particular application?

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## Cultivating a Massive Market (Paul Grant)

- There does not appear to be a “massive market” for HTS in the near-term.
  - ? What constitutes a massive market: 1300 transformers/yr or all the vehicles produced by the Big 3 in 2005?
  - ? Is there a sufficient market for HTS products to sustain profitability for several HTS manufacturing companies in the foreseeable future?
  - ? Dare we dream to put HTS in every household sometime in the future?
- The “transmission line” story: Cu (at 3% RL) versus HTS
  - After six years the extra cost of the HTS conductor is recovered!
  - We’re in the “zero resistance” business—the payback is in the future!