

# Transmission Planning Operational Excellence

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# Objective

- Ensure that reliable, efficient and regionally cost-effective backstop transmission solutions consistent with the long-term plan can be put in place by the time they are needed for the entire PTF network
- Provide the structure for effective and efficient determination and acceptance of plans to support various requests for OATT transmission services
- Ensure consistency with obligations of the Tariff

# Current Process Issues

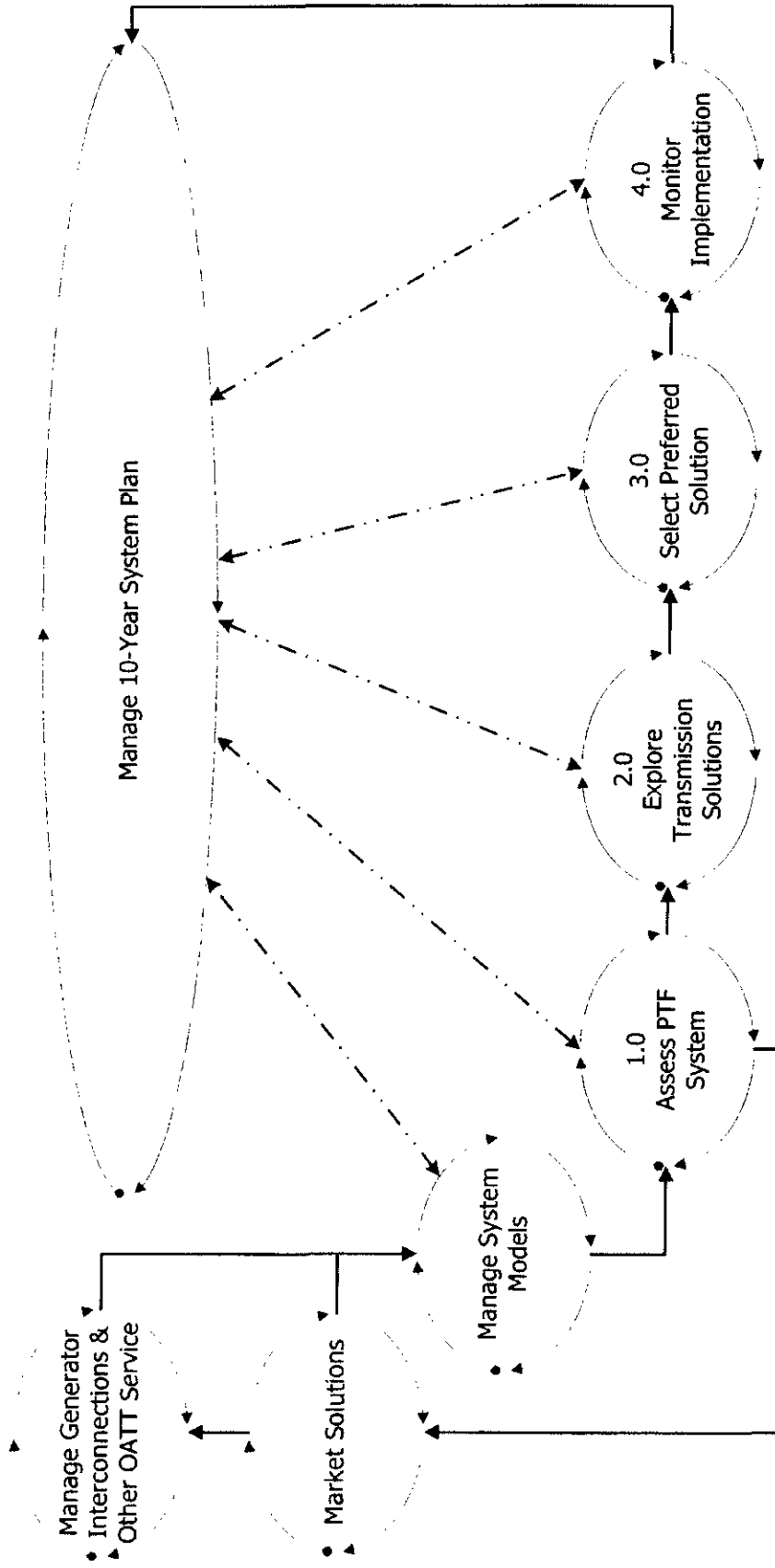
- Process for coordinated development of a comprehensive, system-wide PTF transmission assessment and 10-year plan needs improvement
- Improvements need to assure consistent application of Tariff requirements
- Delays
  - Bottlenecks
  - Inefficient stakeholder interactions
  - Redundant stakeholder group forums
  - Uncertainty in task force deliverables & materials
- Improvements needed to assure consistent application of reliability criteria
- Models require significant effort to debug & update
- Need to develop a consistent and regular process to monitor project implementation



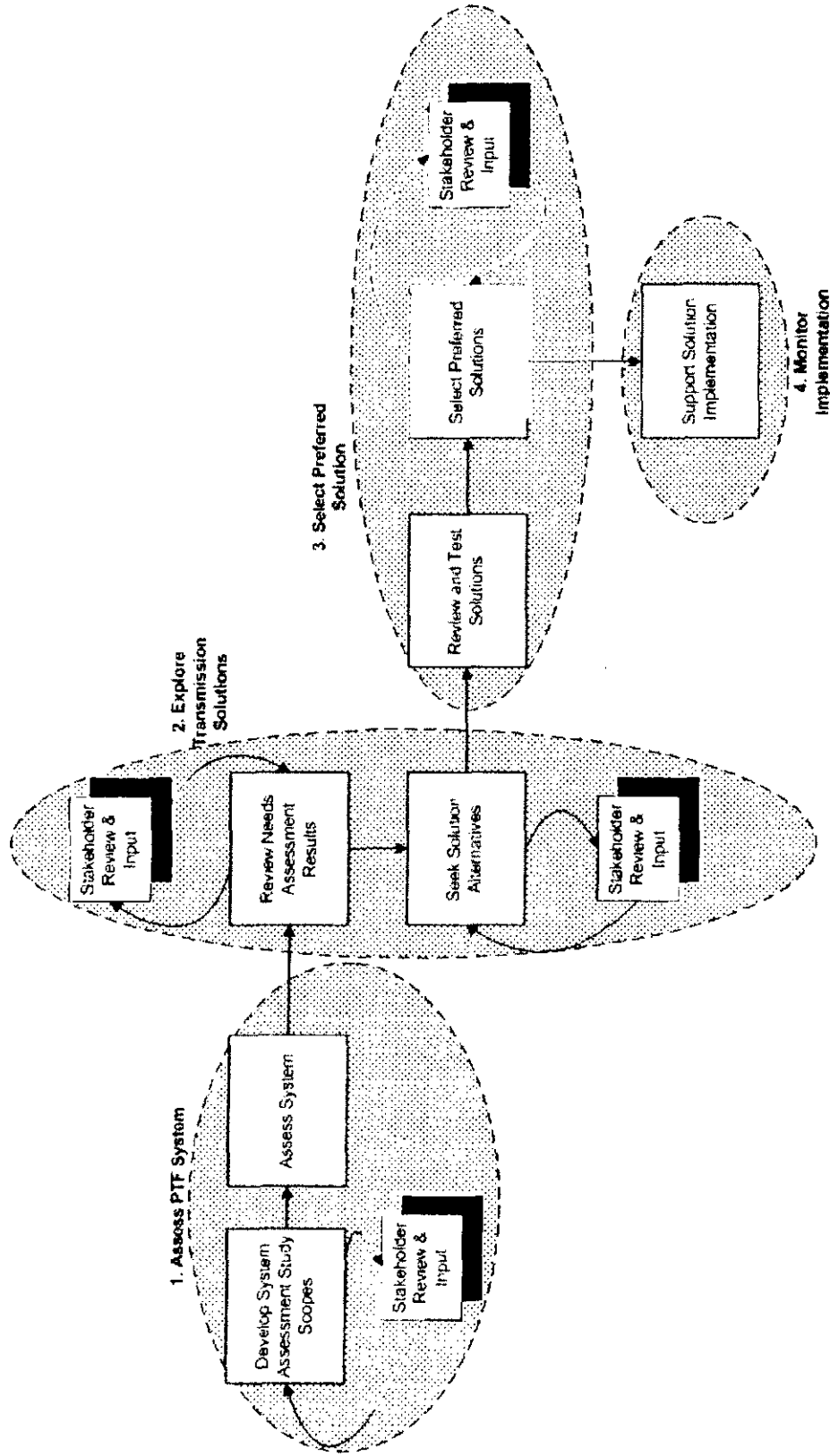
# Proposed Transmission Planning Process

- Not introducing any Tariff changes
- Process describes efficient way to implement Tariff
- Core steps for all transmission planning and stakeholder engagement
- Multiple, coordinated passes through process generate 10-year plan

# Transmission Planning Process



# Core Transmission Planning Process Steps



# How the Proposed Process is Better

- Delineates steps to ensure Tariff obligations are effectively met
- Assessment of system needs
  - Timely identification of potential problems
  - Consistent evaluation
  - Clear conveyance to market
- Improved solution development
  - Integrated amongst multiple needs
- Proactive
  - Stakeholder advanced engagement and acceptance
  - 10-year outlook
- Advanced availability of the basis for cost allocation
- Stronger position for TO to pursue siting

## Next Steps

- Stakeholder process review
- Identify resource requirements & implementation timeline
  - Process
  - Studies
- Minor updates to Planning Procedures to clarify
- Create standard reports and communications protocols
- Training
  - Process
  - Roles & responsibilities, including Task Forces
- Begin transition
  - Possible full implementation in 12-18 months

# Follow-up Development Efforts

- Consistent application of criteria (in progress)
- Modeling process
- Related processes
  - Managing Generator Interconnections
    - Remove unnecessary process steps
  - FCM
    - Ongoing evaluation as FCM develops
  - TCA
    - Proposed process should provide basis for regional cost allocation
    - Determine if further integration necessary
- Non-PTF I.3.9
- Managing the Plan
  - ISO Board Involvement
  - Data Management
  - Study Scheduling
  - Study Coordination details

# Tariff Roles & Responsibilities

- II.B - ISO provides regional network service
- II.B - Local network service will be provided, pursuant to Schedule 21
  - PTO Rates, Terms, Conditions for Local PTP & PTO Specific Local Service
- II.15.2 - Both will plan, construct, operate and maintain the PTF in accordance with Good Utility Practice
- II.48.1 - RSP shall be completed by the ISO. RSP identifies reliability and market efficiency needs. Identifies a regulated transmission solution to be built by one or more PTO
- II.48.3(a) - At least every three years, RSP reflects results of new comprehensive system planning and expansion study
- II.48.4(d) - ISO shall prepare needs assessment
- Attachment N.IV – Evaluate cost effectiveness of each upgrade and alternative

***OATT requires 5+ and NERC/FERC requires 10-year planning horizon***