

Comprehensive Reliability Planning Process (CRPP) Draft RNA

By

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ESPWG

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Draft For Discussion Purposes Only

**NEW YORK ISO COMPREHENSIVE PLANNING PROCESS FOR RELIABILITY NEEDS
TIMELINE**

ID	Task Name	Begin	End	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
1	NYISO COMPREHENSIVE RELIABILITY PLANNING PROCESS	January	June	[Summary bar]																							
2	Submission of Data Inputs	January	February	[Summary bar]																							
3	TOs Submit Transmission Plans	January	February	[Task]	[Task]																						
4	Neighboring Control Area Assessments	January	February	[Task]	[Task]																						
5	Transmission Owner Input	January	February	[Task]	[Task]																						
6	Stakeholder Input	January	February	[Task]	[Task]																						
7	Develop Base Case & Scenarios	March	March	[Summary bar]																							
8	Develop Base Case	March	March	[Task]	[Task]																						
9	Develop Scenarios	March	March	[Task]	[Task]																						
10	Reliability Needs Assessment	April	August	[Summary bar]																							
11	Load & Capacity Data Book Screening Process	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
12	Transmission Adequacy Assessment	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
13	Develop MW Transfer Capability for Resource Delivery	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
14	Resource Adequacy Assessment	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
15	Short Circuit Assessment	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
16	Baseline Reliability Needs Assessment	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
17	Evaluation of Alternate Reliability Scenarios	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
18	Perform Sensitivity Studies	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
19	RNA Draft Report Preparation	April	August	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
20	RNA Review & Approval Process	September	December	[Summary bar]																							
21	TPAS & ESPWG Review of Draft RNA	September	September	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
22	OC / MC RNA Vote	October	October	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
23	NYISO BOD Action on RNA & Independent Market Advisor Review	November	November	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
24	Issue / Post Final RNA	November	November	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
25	Conduct Public Information Sessions	November	December	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
26	Development of Solutions to Reliability Needs	December	January	[Summary bar]																							
27	Request Proposal for Regulated Backstop Solution	December	January	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
28	Conduct Two Step Process for Response Solicitation	December	January	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
29	Assess Submittals for Procedural Solutions to Reliability Needs	December	January	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
30	NYISO Evaluation of Proposed Solutions	February	March	[Summary bar]																							
31	Evaluation of Regulated Backstop Solution	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
32	Evaluation of Market Based Proposals	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
33	Evaluation of Alternative Regulated Responses (With PSC)	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
34	NYISO to Identify & Resolve Deficiencies in Proposed Solutions	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
35	NYISO Recommends Regulated Backstop Solution	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
36	NYISO Cost Allocation Analysis	February	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
37	Prepare Draft CRP	March	March	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
38	CRP Review & Approval Process	April	June	[Summary bar]																							
39	TPAS & ESPWG Review of Draft CRP	April	April	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
40	OC / MC CRP Vote	May	May	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
41	NYISO BOD Action on CRP / Independent Market Advisor Review	June	June	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			
42	Issue / Post Final CRP	June	June	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]	[Task]			

Project: NYISO CRPP Timeline Rev 3 Task [Task icon] Milestone [Milestone icon] Summary [Summary icon]

NYISO CRPP: Draft RNA Steps

- After completion of analysis, NYISO submits draft RNA to ESPWG and TPAS for review and input
- Purpose of draft RNA is to solicit input from the Stakeholders in developing the final draft RNA
 - TOs – Voltage Based Transfer Limit Issues, Transmission Topology
 - ESPGWG – Scenario Review, Inclusion in final draft RNA
 - TPAS – Reliability Criteria Review
- After Review, Forward to the Operating Committee

NYISO CRPP: Today's Discussion

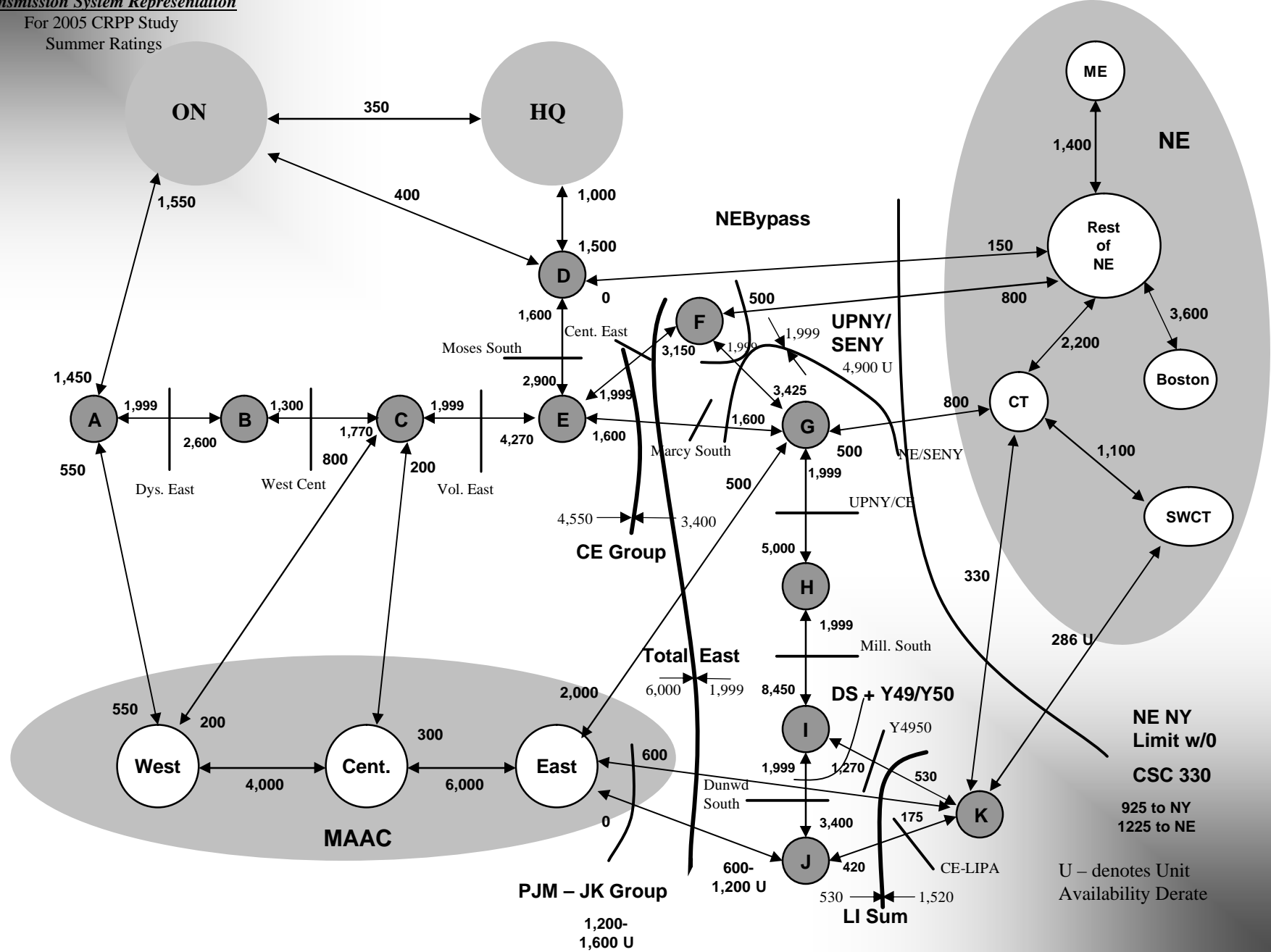
- **Discussion of Comments Received**
- **Discussion of Fault Duty Findings**
- **Discussion of Voltage Limits**
 - **Year 2006**
 - **Year 2010**
 - **Through Time**
- **Discussion of MARS Analysis**
- **Discussion of Load Forecast**
- **Discussion of Next Steps**

New York Control Area

Transmission System Representation

For 2005 CRPP Study
Summer Ratings

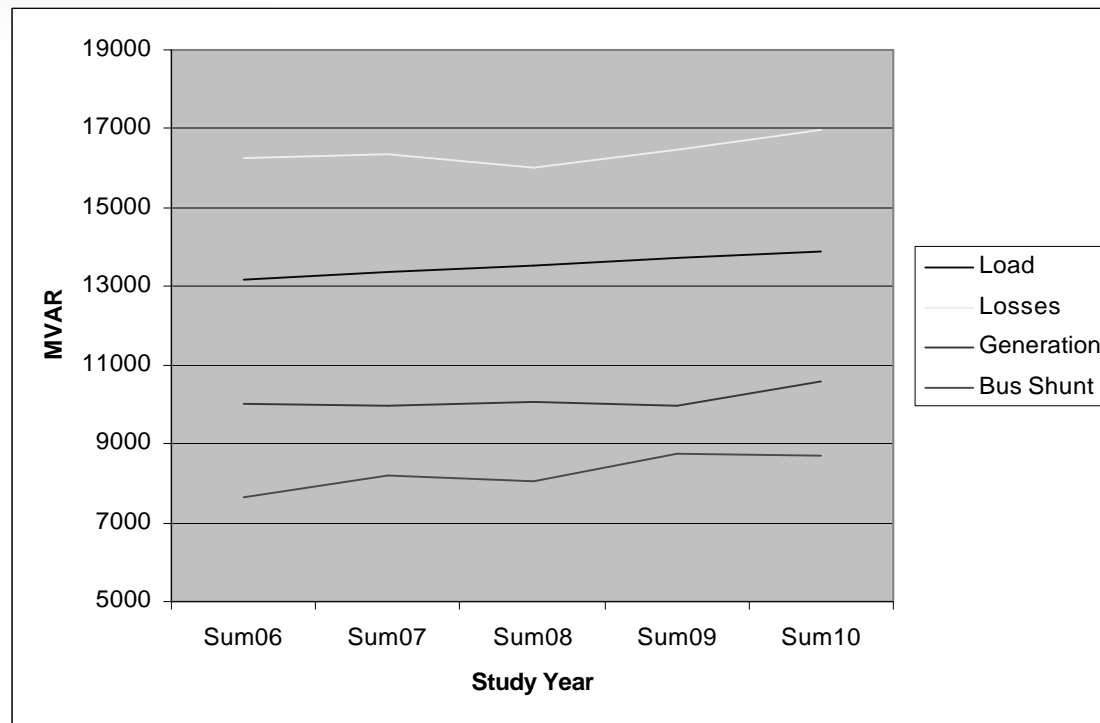
Draft 8-25-05



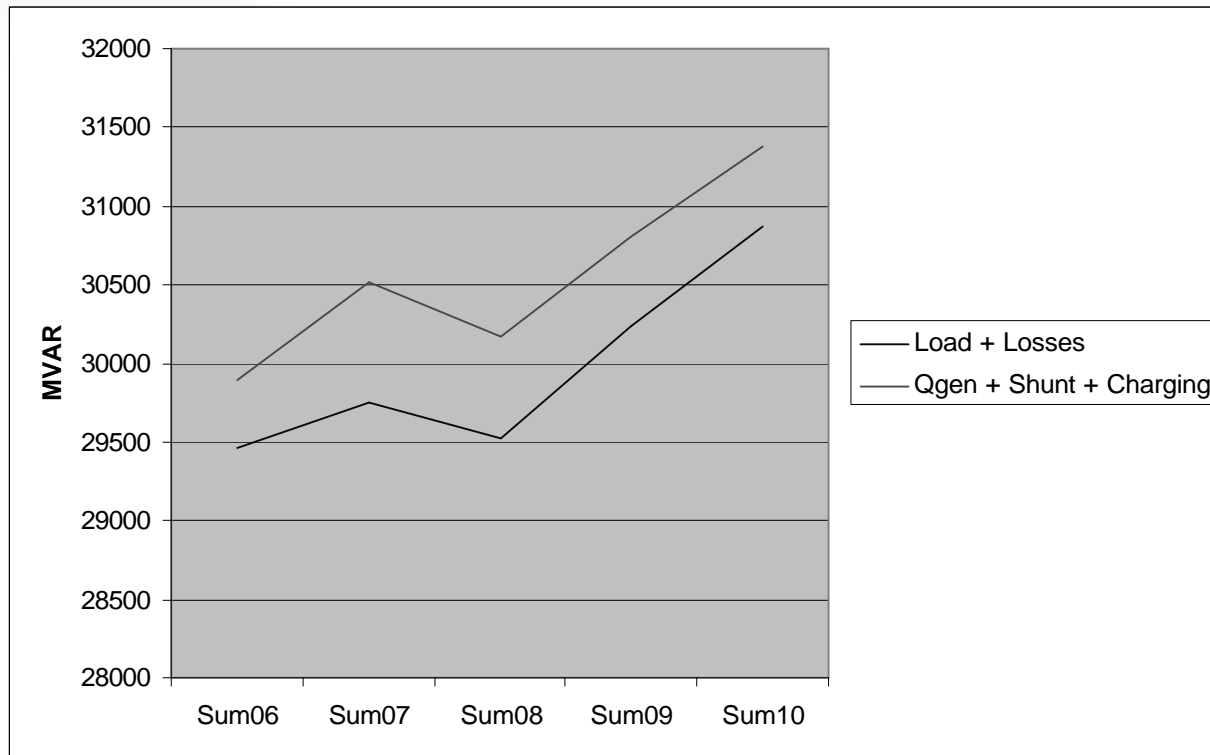
NYISO CRPP: Background & Base Case

- **From 1994 through 2004 load growth for the NYCA averaged approx. 1.2%.**
- **However, load growth in SENY (G-K) has averaged approx. 2.8% while UPNY (A-F) has experienced neg. load growth.**
- **Load growth in SENY through 2004 totals close to 5,000 MW while the net capacity additions for SENY total approx. 1250 MWs.**
- **The CRP base case has statewide load growth which averages about 1.2% with modest growth in UPNY and slightly less than 2% in SENY**
- **The CRP base case installed resources increase through 2007 but decline thereafter**
- **Resources are approximately at 2004 levels by 2008.**
- **Neptune LI-PJM Tie included in base case**

Findings: Base Case



Findings: Base Case



Findings: Through Time Voltage Limits

Dun South Planning

