NPCC, Inc.

Summer 2010 NPCC Reliability Assessment

New York State Reliability Council

Executive Committee

May 14, 2010

2010 Summer NPCC Reliability Assessment

- ***Summary of Major Findings***
- ***Expected use of Operating Procedures***
- ***Summer Weather Forecast***

Summary of Major Findings

NPCC is projected to have adequate supplies of electricity this summer and calculated its regional resource adequacy reliability criteria will be met.

- ✓ Approximately 2,500 MW of new capacity is expected to be in-service this summer since last summer; when the new capacity, rerates and retirements have all been factored in, the NPCC Area experienced a net capacity decrease of 1,242 MW since last summer.

- ✓ The forecast coincident peak demand for NPCC for the summer of 2010 of 107,931 MW is expected to occur during July. This forecast is 2,714 MW (~ 2.5%) lower than last year's forecast coincident NPCC peak demand of 110,645 MW.

Summary of Major Findings

The week beginning July 18th represents the week with the lowest forecast operable capacity margin (spare operable capacity less transfer capability limitations); approximately 11,256 MW is estimated to be available.

The sizeable operable capacity margins forecasted for NPCC this summer result tends to counteract any negative impact that delays to the anticipated capacity additions for 2010 summer could have on the overall NPCC reliability assessment.

Summary of Findings

Solar Cycle No. 24 is expected to peak (in terms of sunspot numbers) in late 2012 or sometime during 2013. For the summer and fall months the Geomagnetically Induced Current activity is expected to remain relatively quiet.

Communication protocols in place are sufficient to ensure the timely and efficient communications in all Balancing Authority areas to maximize the availability of emergency support.

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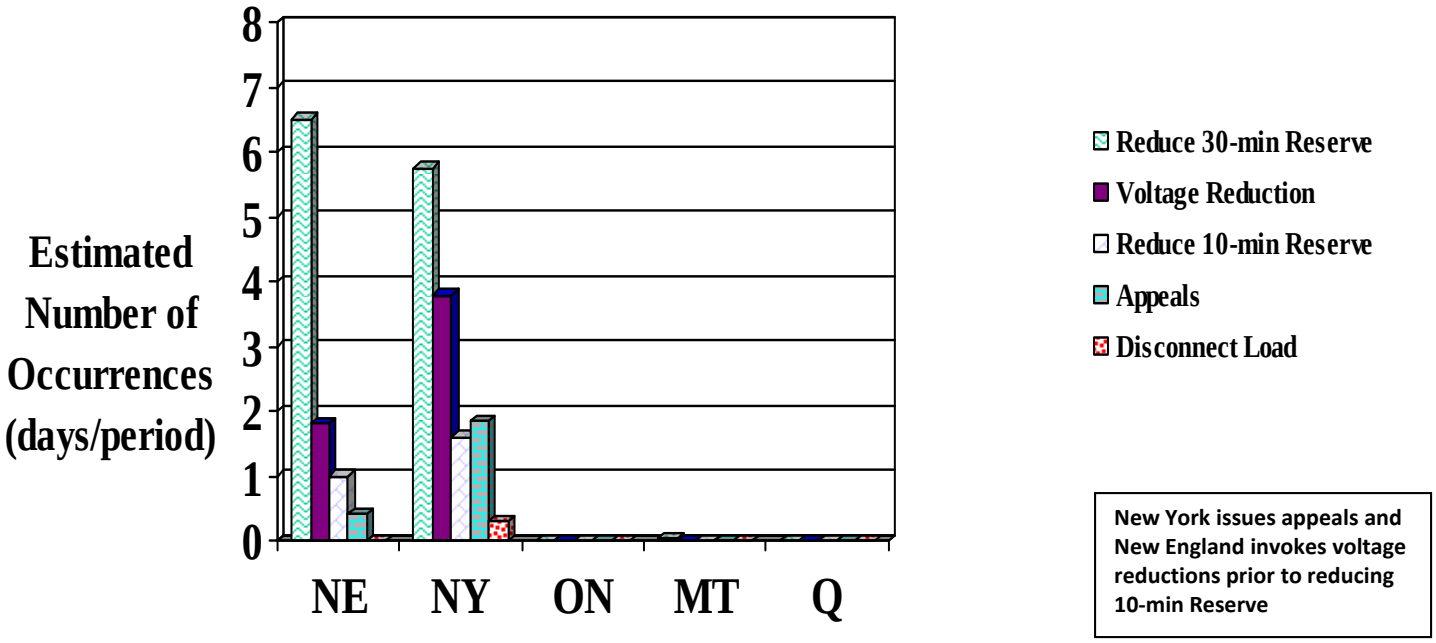
Summary of Major Findings

Use of operating procedures designed to mitigate resource shortages (reducing 30-minute reserve, voltage reduction, and reducing 10-minute reserve) is not expected during the 2010 summer period under the expected load forecast conditions.

Results – May 2010 - September 2010

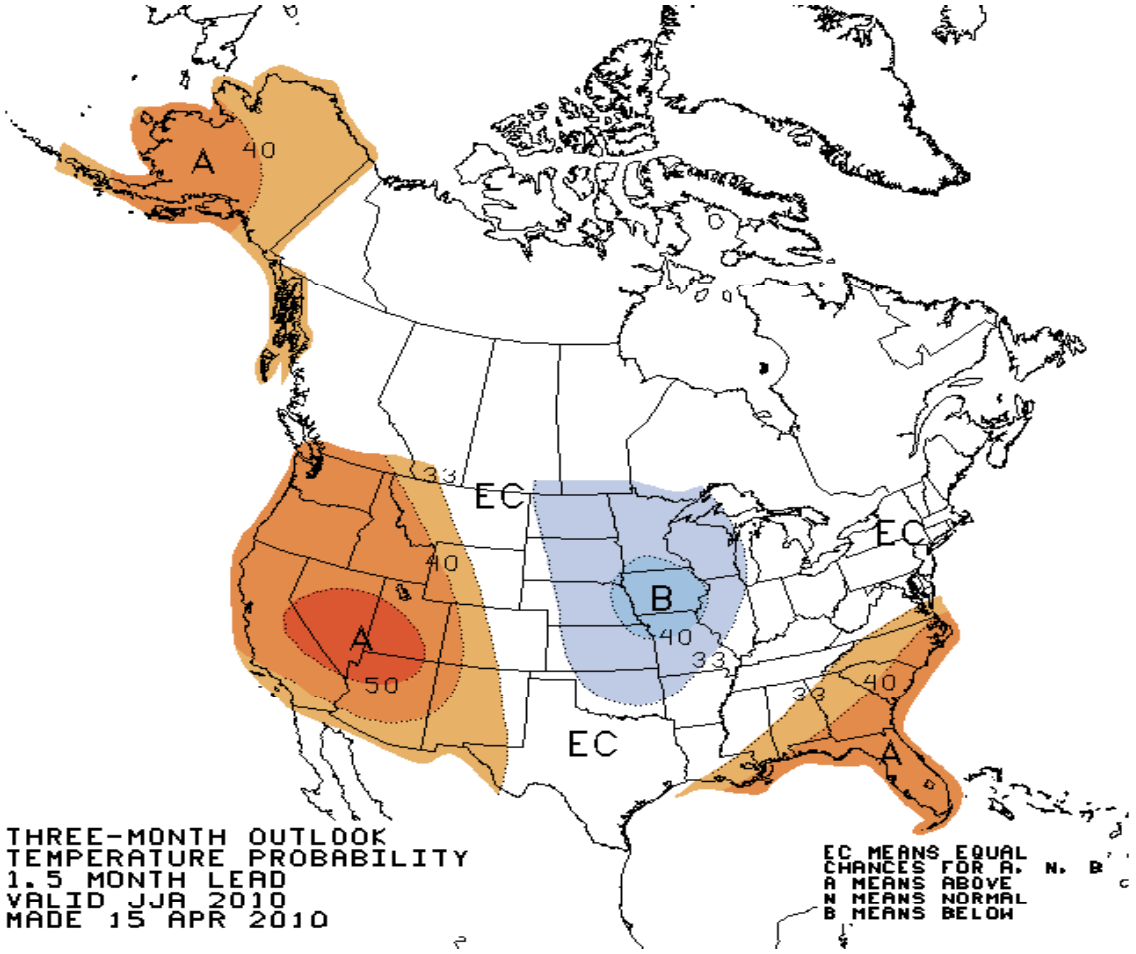
Expected Use of Indicated Operating Procedures

Severe Case – Extreme Load Level – 2002 Load Shape

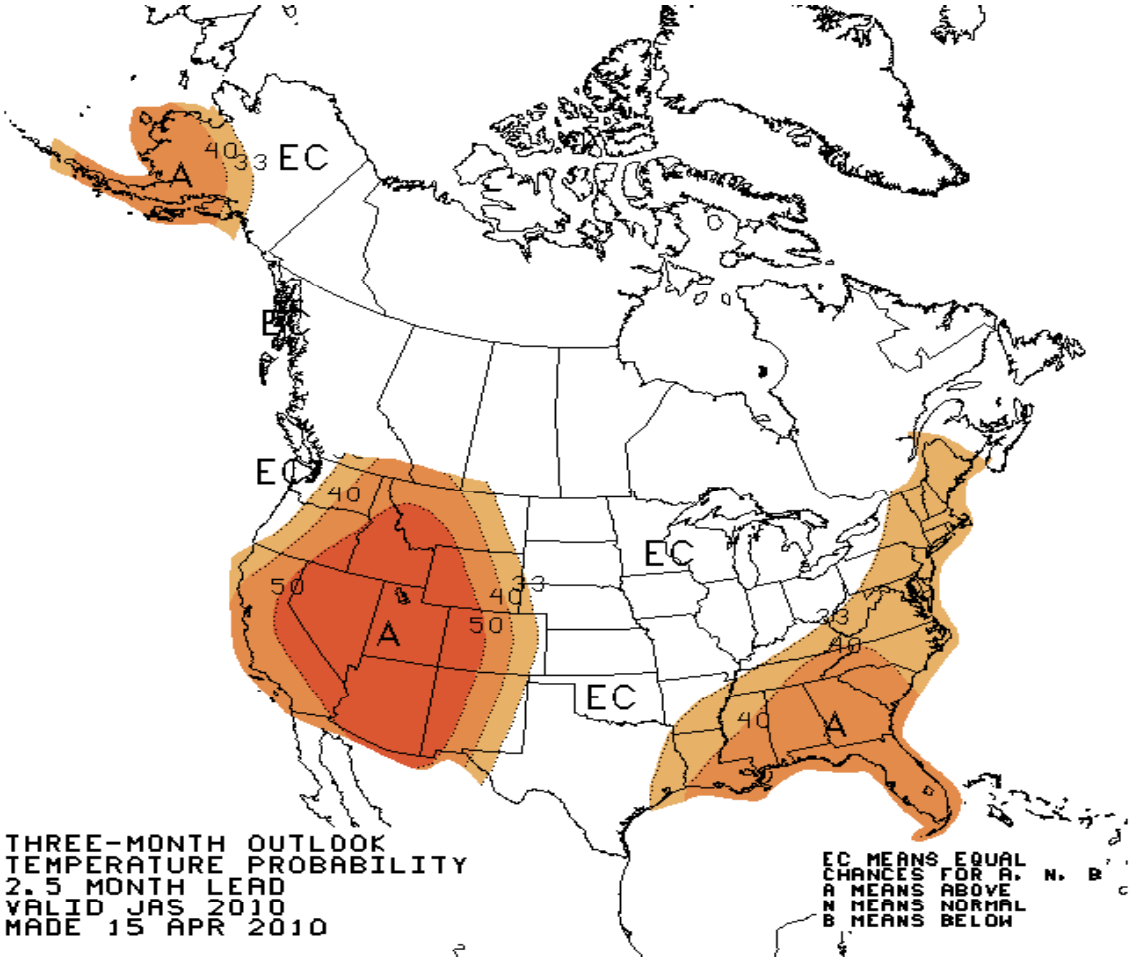


New York issues appeals and New England invokes voltage reductions prior to reducing 10-min Reserve

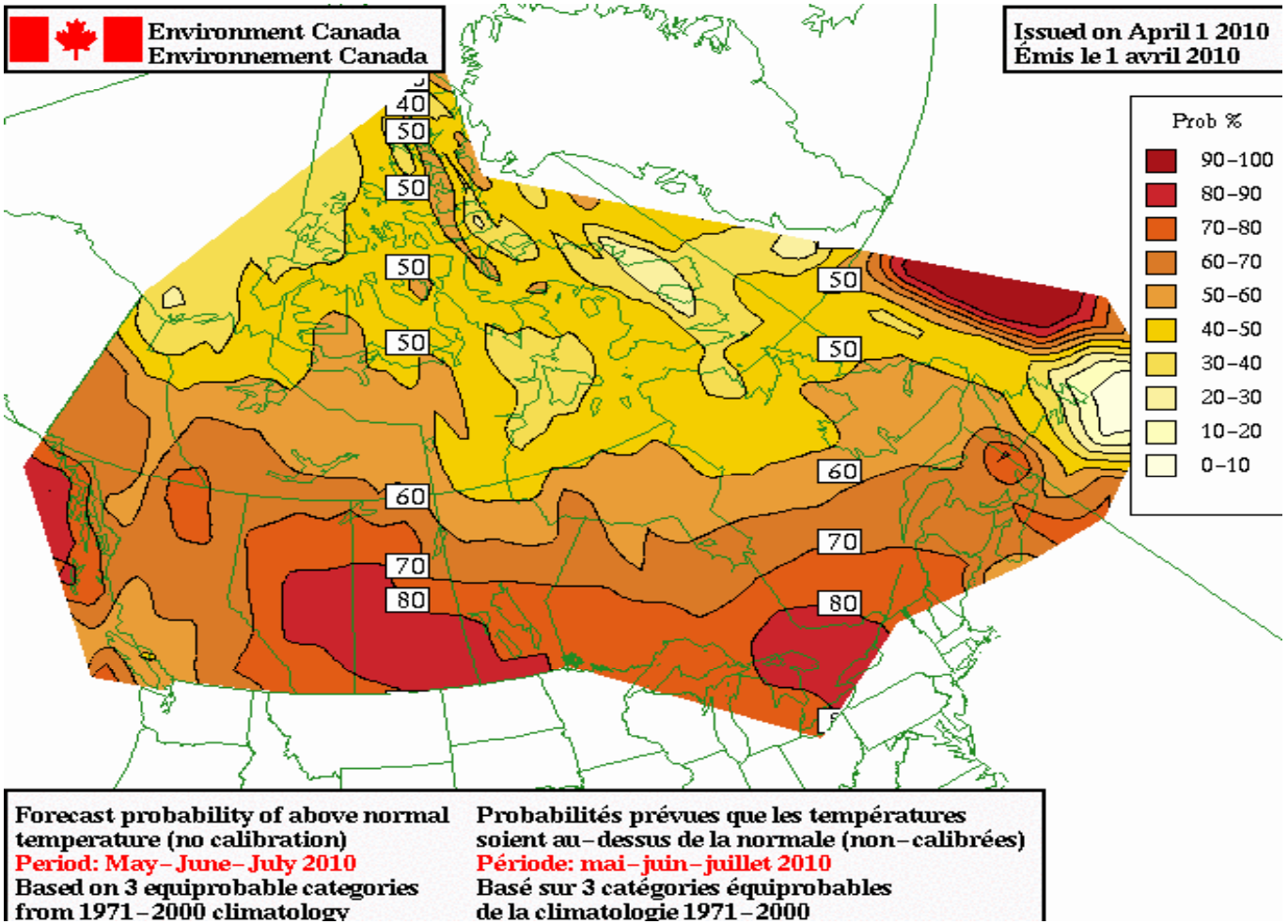
June 2010 - August 2010 CPC NOAA Forecast



July 2010 - September 2010 CPC NOAA Forecast



May 2010 - July 2010 Environment Canada



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Reports

Summary Report available at:

http://www.npcc.org/

Detailed Report available at:

http://www.npcc.org/documents/reports/Seasonal.aspx