

## Action Items List to Meeting #101102

New York State Reliability Council - Installed Capacity Subcommittee

[Fade out items denotes Action Item has been completed]

[Bold dates denotes items that are behind schedule or due for the next meeting]

NO.	Action Item	Responsible Individual(s)	Sched./ Actual Comp. Dates
66-2	Con Edison and NYISO to automate the IRM/LCR curve calculation and perform the benchmarking. <del>Update: NYISO is performing test.</del>	F. Ciani/ C. Villalba	<del>7/10/09</del> <del>/20/09</del>
78-1	Refine PJM East area model and interconnections with NYISO through IPSAC. Include the reserve margin for PJM and we'll revisit.	B. Lamanna	<b>1/1/09</b>
85-1	Perform MARS runs without external capacity derates to determine if there is any impact in the NYCA LOLE. The NYISO will send the OT09 file flow results and build an IRM/LCR curve. Update: We need a white paper for this issue and present it to the EC before making these changes More investigation will be required.	NYISO	6/1/09
89-4	Whether actual hourly load used to analyze the load shape are adjusted for load management programs, voltage reduction, and zonal outages.	A. Maniacci	5/1/09
92-1	Send Spreadsheet with all regressions to analyze using more than 4 points regardless of the R-square results.	Curt Dahl	<b>10-05-08</b>
92-3	Investigate the effectiveness of a. four or more points curve regression.	LIPA	1/10/09
94-1	Perform the Linden VFT sensitivity	NYISO	1/10/09
95-1	Circulate and coordinate review Con Edison filing of actual load reductions in Rider-U? <del>that that</del> uses CBL methodology vs. the NYISO's methodology.	Mark Younger	3/4/09
95-2	Use RNA assumptions of additions and retirements with the existing 2009 IRM study database	G. Drake	3/4/09
95-3	<u>ICS has finalized zones H, I, and J LFU calculation methodology for 2010. It was deemed that Con Edison's model was accepted by the NYISO and that both parties have collaboratively agreed on methodology to generate LFU model for 2010.</u>	K. Chu/ A. Maniaci	7/21/09
95-4	Prepare a paper on the methodology of shifting capacity and impact on the IRM calculation when including wind generation. <u>Update: Break into two pieces: 1. New calculation approach to shifting capacity 2. Develop better methodology to performing wind sensitivity for IRM. Report to be circulated by 8/20/09</u>	G. Drake/ M. Younger/ C. Villalba	<b>Prior to 7/8/20/21/09</b>

95-5	Present to the ICS the NYISO's areas of improvement in the calculation of the IRM.	NYISO	2/4/09
95-6	NYISO to work with the ICS to analyze EFORD trends	F. Vitale/ B. Boyle	7/1/09
95-7	Prepare an assumption matrix to calculate the FCPM IRM.	NYISO	3/4/09
96-1	Upstate/Downstate study	J. Pade	<b>4/8/09</b>
97-1	SCRs Performance & Modeling Technique- White paper. Received some information from Dave Lawrence. Next meeting for presentation	Dave Lawrence/M. Younger	7/1/09 Under review
97-2	Finalize schedule tracking for IRM Study. Steve sent a schedule, the group reviewed.	G. Drake/S. Jeremko	<b>4/24/09</b>
97-3	Comments on the external ICAP Paper. <u>Decision to stay with the existing methodology of derating the ties to model external contracts. However, it was requested that a sensitivity be done for the 2010 study to examine the effect of modeling the contracts as physical contracts, not derates.</u>	All	<b>68/25/09</b>
97-4	NYISO to circulate Ot.09 file from 2009 IRM base case	NYISO/G. Drake	<b>4/8/09</b>
97-5	Status of Susquehanna – Lackawanna – Jefferson – Roseland – Hudson - Branchburg PJM Line planned through RTEP.	C. Villalba	<b>4/8/09</b>
97-6	Find out if NERC has a service to produce an analysis of the NYCA forced outage rate.	F. Vitale	7/1/09
98-1	Forecasted Wind Capacity	Erin Hogan	7/1/09
98-2	SAS program code and process to calculate transition rates	G. Drake/C.Villalb a	6/2/09
98-3	Curt to talk with Clyde Custer about EFORD calculations	Dahl	<b>4/28/09</b>
98-4	Send to the group either the summary of all results on the Loop Flow analysis or the OT09 output files	G. Drake	<b>68/25/09</b>
98-5	Group to review NYISO's loop switch conclusion before starting with MARS runs. <u>Update: Dependent on 98-4 results provided by NYISO.</u>	All	<b>68/25/09</b>
99-1	ISO in June will provide ICS an evaluation of last years load shape and the applicability of the 2002 load shape	NYISO/A. Maniaci	<b>6/2/09</b>

99-2	Request for NYISO legal department to provide Zonal generation EFORDs for zones A, B, C, D E, F, GHI, J and K and SCR/EDRP forecasts for zones A through D, zones E through I, and zone J and K separately. NYISO indicated that Curt send a formal request for this data. Curt requested Carlos to write a formal request and send to NYISO.	NYISO/G. Drake/C. Dahl/C. Villalba	7/6/09
99-3	Collect schedule outage inputs for IRM 2010 study	NYISO/G. Drake	6/2/09
99-4	Circulated updated IRM 2010 timeline schedule to ICS group.	NYISO/F. Ciani	6/2/09
99-5	Review and finalize modeling of New Transmission Capability – modeling 300 MW Linden VFT. Need explanation for why the flows are higher over ABC lines. <u>Update: Bill to provide a write up (see 101-7).</u>	NYISO/B. Lamanna	7/1/09
99-6	Con Edison to get Transmission Cable Forced outages earlier than July. NYISO needs this information sooner than traditionally provided. <u>Con Edison has completed the transition rates for ICS, just needs to be checked out prior to sending on Aug 5<sup>th</sup> meeting.</u>	Con Edison/Kelvin Chu <u>and Hilary Goldman</u>	<del>7/21/09</del> 7/21/09
99-7	Decision needs to be made by ICS on how to weight last two years of EFORD data into the 2010 IRM base case assumptions. Also should 5 or 10 years of data be incorporated into the average	ALL	6/2/09
100-1	Re-build and coordinate with the IESO the HQ and Ontario MARS topology.	B. Lamanna	7/1/09
100-2	NYISO to expand on the SCR/EDRP performance factor measurement through CBL to add a white paper and expand on the CBL methodology.	D. Lawrence	7/1/09
100-3	Investigate the interconnection schedule of the 112.5 MW High Sheldon Wind Farm. Why it was missed last from last year IRM Study.	S. Jeremko	6/17/09
100-4	Calculate the tan 45 point after removing loop flow switch, and added deliverable external ICAP. Do same using contracts to model external capacity.	G. Drake	6/17/09
100-5	Proof EFORD and Transition rates are similar calculations. Kelvin to give presentation. Combined with Con Edison's request for SAS program code and process to calculate transition rates	C. Villalba/ K. Chu	12/1/09

101-1	For IRM assumption matrix, Steve Jeremko to follow up with Erin Hogan about Bear Creek wind farm, located in PA, to question whether it should be included in our Renewable Resources assumption. Also confirm other renewable forecast data with Erin. <u>Update: There exists a contract and it gets RPS credit, so Steve recommends to leave it in the study. This most likely won't be modeled as a contract but will be modeled as a wind unit in New York for simplicity. Need to find out where it will come into Zone C and what wind shape to use.</u>	Steve Jeremko and Erin Hogan	7/21/09
101-2	NYISO to provide data to ICS on average derate of pondage/run of river hydro units for past 5 years and worst year data.	NYISO	7/21/09
101-3	Follow up on external capacity assumptions for IRM 2010 Study, especially impact of HQ to ONT line increase from 350 MW to 1250MW in two steps: up to 600 MW on July 1st 2009 and to 1250 MW on May 1st 2010. Needed for updated topology map.	Bill Lamanna Greg Drake	7/21/09
101-4	In 2010 IRM study assumption matrix, Carlos Villalba to follow up with Con Edison's Operations on increase in EOP step 6 (Voluntary Industrial Curtailment) from 129 MW to 295 MW from 2009 to 2010. NYISO to provide contact for this information.	Carlos Villalba NYISO	7/21/09
101-5	Upstate/Downstate study – clarification needed from Paul Gioa and the EC to determine whether the U-D study will be required for at least one more year under the conditions set forth in the NYSRC's FERC filing. <u>Curt did talk with Paul Gioa and was told that we do have to do another U-D study because the first year did not count. In January, U-D calculation must be done again.</u>	Curt Dahl	8/5/09
101-6	NYSRC Rosters – Steve Jeremko will update the current ICS Members Roster information posted to the NYSRC website	Steve Jeremko	9/5/09
101-7	Continuation of 99-5. Bill L. to provide write up on his review and finalized modeling of New Transmission Capability – modeling 300 MW Linden VFT. Need explanation for why the flows are higher over ABC lines.	NYISO/B. Lamanna	8/5/09
101-8	Follow up required on Riverbay's (Co-Op City's) net generating capacity to be including as part of the proposed new units section of the 2010 Assumption's Matrix	Carlos Villalba	8/20/09
101-9	Need guidance/information as to how to model the 716 MW of FCM contracts from NYCA to NE for next IRM study	Bill Lamanna	8/20/09
<u>102-1</u>	<u>After the NYISO verified that the 2002 hourly load shape was adjusted for the EOPs, load management programs, voltage reduction, and zonal outages, the ICS recommended going forward that it is specified (with accordance to Policy 5) that a reconstituted load shape is used in the IRM study.</u>	<u>ICS</u>	

102-22	ICS recommendation that the TOs and NYISO work with LFTF to develop a collaboratively acceptable LFU methodology and finalized model for future studies. The finalized model <u>and methodology</u> will then be presented collaboratively to the ICS for future year studies <u>and Policy 5</u> .	A. Maniaci (NYISO)/ C. Villalba and K. Chu (Con Edison)/ Curt Dahl (LIPA)	
102-33	Request made that sensitivity be done for the 2010 IRM study to examine the effects of modeling the 2010 external contracts as contracts, not derates, to see the effect on the model.	G. Drake/F. Ciani	9/2/09
102-44	<u>Request made to the NYISO to circulate the proposal on modeling the renewable sold from C, D, and E (about 716 MW) to New England's FCM. NYISO recommended that they model these renewable sales as 2 contracts – one for Hydro resources and one for Nuclear resources. ICS group asked Greg to circulate his methodology to the group and include it in assumption matrix. Methodology sent to ICS group on NYISO's decision to model ? as 2 contracts (2 hours and 5 minutes) to be circulated and added to the 2010 study assumptions matrix.</u>	G. Drake/Frank Ciani	Prior to 9/2/09
102-5	<u>ICS to determine methodology for removing generation from zone J (including the Astoria East capacity bubble) when generating the IRM/LCR curve.</u>	<u>B. Lamanna/G. Drake/C. Villalba</u>	
102-6	<u>Upstate/Downstate study to be completed for one more year to satisfy the 3 year study requirement.</u>	<u>NYISO</u>	