

### 2015 IRM STUDY PROCESS MILESTONES

Month	ICS Meeting	EC Meeting	2015 IRM Study Milestones
	NYISO		
February	1/28/14	2/14/14	-Review initial 2015 IRM Study Assumptions & Modeling Enhancements Matrix (ICS/NYISO). -Identify potential non-standard modeling enhancements, <a href="#">e.g., revised PJM representation (ICS/NYISO).</a>
	ICS/NYISO		-Continue to prepare base case assumptions and development of potential non-standard modeling enhancements (NYISO). -NYISO & TPAS begin preparation of transmission topology.
March	3/5/14	3/14/14	-Update 2015 IRM Study Assumptions & Modeling Enhancements Matrix (ICS/NYISO).
	ICS/NYISO		-NYISO staff & TPAS continue preparation of transmission topology. -Continue to prepare base case assumptions and development of non-standard modeling enhancements (NYISO). -Begin preparation of white paper(s) on potential non-standard modeling enhancements, including IRM impact of new model(s) (NYISO).
April	4/2/14	4/10/14	-Continue to update 2015 IRM Study Assumptions & Modeling Enhancement Matrix (ICS/NYISO).
	ICS/NYISO		-NYISO staff & TPAS continue preparation of transmission topology. -NYISO staff reviews GADS data. -NYISO staff updates new MARS software as necessary. -Continue to prepare base case assumptions (NYISO). -NYISO begins base case build-up. -Complete development of non-standard models (NYISO). -Complete non-standard model white paper(s) (NYISO).
May	4/29/14	5/9/14	-Continue to update 2015 IRM Study Assumptions & Modeling Enhancement Matrix (ICS/NYISO). -Review and approve non-standard model white paper(s) (ICS). -If applicable, ICS approves use of new MARS version.
	ICS/NYISO		-NYISO staff & TPAS complete preparation of transmission topology. -Continue to prepare base case assumptions and modeling enhancements (NYISO).
June	6/4/14	6/13/14	-Based on non-standard model white paper(s), determine whether proposed modeling enhancement(s) has been developed sufficiently for use in the 2015 Study, or whether an additional year is needed before being fully implemented (ICS). -Continue to update 2015 IRM Study Assumptions & Modeling Enhancement Matrix (ICS/NYISO). -NYISO delivers transmission topology to ICS.
	ICS/NYISO		-MARS benchmarking as necessary (NYISO). -Continue to prepare base case assumptions (NYISO). -ICS reviews transmission topology and modifies as required. <a href="#">-NYISO &amp; GE conduct preliminary data quality assurance reviews.</a>

Month	ICS Meeting	EC Meeting	2015 IRM Study Milestones
	NYISO		
July	6/27/14	7/11/14	- Preliminary 2015 IRM Study Assumptions & Modeling Enhancement Matrix, including new non-standard model(s), approved by ICS and EC.
	ICS/NYISO		-NYISO completes initial master input file preparation <del>– send to GE by 7/31-</del> -NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study report. <del>-NYISO &amp; GE conduct initial data quality assurance reviews.</del> -ICS prepares list of proposed sensitivity cases. -Initial masked/encrypted input data provided to TOs for data quality assurance review (NYISO).
August	7/29/14	8/8/14	-ICS reviews and approves parametric study results. -ICS reviews and approves sensitivity test methodology -ICS and EC approves list of sensitivity cases.
	ICS/NYISO		-NYISO, GE and TOs conduct <u>Preliminary Database</u> -data quality assurance- reviews. -NYISO conducts preliminary base case study to generate IRM-LCR curve. -NYISO prepares Tan 45 analysis for calculating preliminary base case IRM. -Final master file completed (NYISO). -NYISO begins to share MARS output files with ICS members for review.
September	9/3/14	9/14/14	-ICS approves preliminary base case IRM. -EC reviews preliminary base case IRM.
	ICS/NYISO		-NYISO, GE and TOs complete preliminary base case data quality assurance reviews. <del>-NYISO prepares preliminary data base quality assurance report (includes NYISO, GE, and TO reviews).</del> -NYISO begins sensitivity testing based on preliminary base case. -NYISO staff/LFWG prepares Fall load forecast.
October	10/1/14	10/9/14	-Fall load forecast delivered to ICS (NYISO). <del>-ICS approves preliminary data base IRM quality assurance report.</del> -ICS reviews and approves preliminary sensitivity results. -EC reviews preliminary sensitivity results. -ICS and EC approve Final 2015 IRM Base Case Assumptions.
	ICS/NYISO		-Complete sensitivity testing and prepare Table 7-1 (ICS/NYISO). -If needed, prepare Special Sensitivity Case that reflects any base case assumption revisions following EC approval of Final Base Case Assumptions (this task could run through November 15). -ICS conducts base case study. -ICS prepares Tan 45 analysis for calculating final base case IRM (ICS/NYISO). -ICS prepares initial draft IRM report. -Prepare Table 6-1 (parametric 2014 vs. 2015 IRM impact comparison) (ICS). -NYISO shares output MARS files with ICS members for their review.

Month	ICS Meeting	EC Meeting	2015 IRM Study Milestones
	NYISO		
November	10/28/14	11/7/14	<ul style="list-style-type: none"> <li>-ICS approves Tables 6-1 and 7-1, and submits to the EC for review.</li> <li>-ICS reviews and provides comments on initial draft IRM report.</li> <li>-ICS approves final base case IRM.</li> <li>-EC approves final base case IRM and sensitivity case results.</li> <li>-EC reviews and provides comments on initial draft IRM report.</li> <li>-The need for a Special Sensitivity Case is identified.</li> </ul>
	ICS/NYISO		<ul style="list-style-type: none"> <li>-ICS reviews all study results.</li> <li>-Complete final base case quality assurance reviews by November 15. (NYISO).</li> <li>-ICS prepares final draft IRM report.</li> <li>-If needed, by November 15, ICS meets to determine if IRM-LCR curves need to be generated for a Special Sensitivity Study (ICS).</li> <li>-As needed, a Special Sensitivity Case study is conducted including a Tan 45 analysis (NYISO).</li> </ul>
December	12/1/14	12/5/14	<ul style="list-style-type: none"> <li>-ICS approves, as needed, a Special Sensitivity Case to be included in Table7-1.</li> <li>-ICS agrees final draft 2015 IRM report can go to the EC for approval.</li> <li>-EC approves 2015 IRM report, Final 2015 IRM, and IRM resolution.</li> </ul>
	ICS/NYISO		<ul style="list-style-type: none"> <li>-Issue 2015 IRM letter to NYISO CEO (EC).</li> <li>-Issue press release on 2015 IRM (EC).</li> <li>-IRM Filing to FERC if required (EC).</li> <li>-Prepare LCR realignment study if Final 2015 IRM is less than base case IRM (NYISO).</li> <li>-Special meeting to approve LCR realignment study if needed (ICS).</li> </ul>