2018-19 IRM STUDY SCHEDULE AND PROCESS MILESTONES

January 1/4/17 1/12/	D. G. a. a. b.	ICS Meeting	EC Meeting	2010 10 IDNA Charles Milestones
Indianal	Month			2018-19 IRM Study Milestones
February Februa	lanuary	1///17	1/12/17	-ICS Identifies issues needing to be addressed in preparation for 2018 IRM Study (lessons learned, draft
February ICS / VISO ICS / VISO ICS approves in milest 2018 IRM Study Assumptions Matrix. -EC approves milestone schedule. -ICS continues preparation of EA model (including other new models). -NYISO begins preparation of pelliminary transmission topology. -ICS reviews status of new EA model development (including other new models) and updated 2018 IRM Study Assumptions Matrix. -ICS completes new EA model development and prepares white paper (including other new models) -ICS reviews draft EA white paper (including other new models) -ICS reviews draft EA white paper (including other new models) -ICS reviews updated 2018 IRM Study Assumptions Matrix. -NYISO updates new MARS software and benchmarks as necessary. -NYISO begins base case build-up used for parametric analysis. -ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions Matrix. -NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study report. -NYISO conducts preliminary 2018 IRM Study Assumptions Matrix. -NYISO conducts preliminary 12018 IRM Study Assumptions Matrix. -NYISO conducts preliminary 2018 IRM Study Assumptions Matrix. -NYISO conducts preliminary 2018 IRM Study Assumptions Matrix. -ICS approves is to find the sumplement of the preliminary transmission topology will also be presented at the June 2 nd TPAS meeti	January	1/4/17	1/12/17	
Pebruary 2/1/17 2/10/17 -ICS approves scopes, as needed, of potential new models. -ICS reviews initial 2018 IRM Study Assumptions Matrix. -ICS approves milestone schedule. -ICS continues preparation of EA model (including other new models). -ICS continues preparation of preliminary transmission topology. -ICS reviews updated 2018 IRM Study Assumptions Matrix. -ICS reviews updated 2018 IRM Study Assumptions Matrix. -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS proves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology will also be presented at the June 2 nd -ICS approves preliminary EAM Study Assumptions Matrix. -ICS proves preliminary Experiminary IRM Study Assumptions Matrix. -ICS approves preliminary Experiminary Experiminar				i i
February -ICS reviews initial 2018 IRM Study Assumptions Matrix.				, , ,
CS PEC approves milestone schedule.		2/1/17	2/10/17	
ICS/NYISO	February			
NylSO begins preparation of preliminary transmission topology. Algorithms				
March 3/1/17 3/10/17 3/10/17 -ICS reviews status of new EA model development (including other new models) and updated 2018 IRM Study Assumptions Matrix. -ICS completes new EA model development and prepares white paper (including other new models) -ICS reviews draft EA white paper (including other new models) -ICS reviews updated 2018 IRM Study Assumptions Matrix. -NYISO reviews GADS data -NYISO updates new MARS software and benchmarks as necessary. -NYISO updates new MARS software and benchmarks as necessary. -NYISO updates new MARS software and benchmarks as necessary. -NYISO updates new MARS software and benchmarks as necessary. -ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix. -IF applicable, ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions Matrix. -ICS approves Ist of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity cases. -ICS approves Ist of sensitivity cases. -ICS approves		ICS/NYISO		-ICS continues preparation of EA model (including other new models).
March ICS/NYISO I-ICS completes new EA model development and prepares white paper (including other new models)				-NYISO begins preparation of preliminary transmission topology.
ICS/NYISO -ICS completes new EA model development and prepares white paper (including other new models) -ICS reviews draft EA white paper (including other new models) -ICS reviews updated 2018 IRM Study Assumptions Matrix. -NYISO reviews GADS data. -NYISO updates new MARS software and benchmarks as necessary. -NYISO begins base case build-up used for parametric analysis. -ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix. -If applicable, ICS approves use of new MARS version. -ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix. -IF applicable, ICS approves use of new MARS version. -ICS approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 of the province		2/1/17	2/10/17	-ICS reviews status of new EA model development (including other new models) and updated 2018 IRM
April April 4/5/17 4/13/17	March	3/1/1/	3/10/1/	Study Assumptions Matrix.
April April ICS/NYISO ICS/NYISO ICS/NYISO APISO previews GADS data. -NYISO updates new MARS software and benchmarks as necessary. -NYISO begins base case build-up used for parametric analysis. -ICS approves EA model white paper (including other new models). -ICS approves EA model white paper (including other new models). -ICS approves EA model white paper (including other new models). -ICS/NYISO -NYISO completes preparation of preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixINTISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity casesEC approves list of sensitivity cases.		ICS/NYISO		-ICS completes new EA model development and prepares white paper (including other new models)
April ICS/NYISO ICS/NYISO ICS/NYISO ICS approves EA model white paper (including other new models). ICS approves EA model white paper (including other new models). ICS approves EA model white paper (including other new models). ICS eviews updated 2018 IRM Study Assumptions Matrix. If applicable, ICS approves use of new MARS version. ICS/NYISO ICS/NYISO ICS/NYISO ICS reviews updated 2018 IRM Study Assumptions Matrix. ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology and sends to TPAS and ICS for review. ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. ICS approves preliminary 2018 IRM Study Assumptions Matrix. ICS approves preliminary 2018 IRM Study Assumptions Matrix. ICS/NYISO ICS/NYISO ICS/NYISO ICS prepares list of proposed sensitivity cases and submits to ICS chair. ICS approves list of sensitivity cases. ICS approves list of sensitivity cases. ICS reviews parametric study results and preliminary tan 45 analysis and IRM.		4/5/17	4/12/17	-ICS reviews draft EA white paper (including other new models)
Hay a province of the properties of the propert		4/5/1/	4/13/17	-ICS reviews updated 2018 IRM Study Assumptions Matrix.
-NYISO begins base case build-up used for parametric analysis. -ICS approves EA model white paper (including other new models)ICS reviews updated 2018 IRM Study Assumptions MatrixIf applicable, ICS approves use of new MARS versionEC approves EA model white paper (including other new models)ICS reviews updated 2018 IRM Study Assumptions Matrix including other new models)NYISO completes preparation of preliminary transmission topology and sends to TPAS and ICS for reviewICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meetingICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixICS approves preliminary 2018 IRM Study Assumptions MatrixNYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chairICS approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity cases.	April	1		-NYISO reviews GADS data.
-ICS approves EA model white paper (including other new models)ICS reviews updated 2018 IRM Study Assumptions MatrixIf applicable, ICS approves use of new MARS versionEC approves EA model white paper (including other new models). -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixICS approves preliminary 2018 IRM Study Assumptions MatrixICS approves preliminary 2018 IRM Study Assumptions MatrixICS approves preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity casesEC approves list of sensitivity cases.		ICS/NYISO		-NYISO updates new MARS software and benchmarks as necessary.
May 5/3/17 5/12/17 5/12/17 -ICS reviews updated 2018 IRM Study Assumptions MatrixIf applicable, ICS approves use of new MARS versionEC approves EA model white paper (including other new models)NYISO completes preparation of preliminary transmission topology and sends to TPAS and ICS for reviewICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meetingICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixPYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chairICS approves list of sensitivity casesEC approves list of sensitivity cases.				-NYISO begins base case build-up used for parametric analysis.
May S/3/17 S/12/17				-ICS approves EA model white paper (including other new models).
July ICS/NYISO ICS approves EA model white paper (including other new models). -EC approves EA model white paper (including other new models). -NYISO completes preparation of preliminary transmission topology and sends to TPAS and ICS for review. -ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixNYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.		5/3/17	5/12/17	-ICS reviews updated 2018 IRM Study Assumptions Matrix.
June Solution Sol	May			-If applicable, ICS approves use of new MARS version.
June 5/30/17 6/9/17 - ICS reviews updated 2018 IRM Study Assumptions Matrix including preliminary transmission topology. Note: For information purposes the preliminary transmission topology will also be presented at the June 2 nd TPAS meeting. 6/28/17 7/14/17 -ICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixNYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. 8/2/17 8/11/17 8/11/17 -ICS approves list of sensitivity casesEC approves list of sensitivity casesICS approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.	-			-EC approves EA model white paper (including other new models).
July Solution Sol		ICS/NYISO		-NYISO completes preparation of preliminary transmission topology and sends to TPAS and ICS for review.
July Solution Sol				
TPAS meeting. -ICS approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixEC approves preliminary 2018 IRM Study Assumptions MatrixNYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.	June	5/30/17	6/9/17	
July ICS/NYISO ICS/NYISO ICS/NYISO 8/2/17 8/11/17 -EC approves preliminary 2018 IRM Study Assumptions Matrix. -NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study report. -NYISO conducts preliminary IRM tan 45 study following parametric study. -ICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity cases. -EC approves list of sensitivity cases. -EC approves list of sensitivity cases. -ICS reviews parametric study results and preliminary tan 45 analysis and IRM.				
July ICS/NYISO ICS/NYISO ICS/NYISO 8/2/17 8/11/17 -EC approves preliminary 2018 IRM Study Assumptions Matrix. -NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study report. -NYISO conducts preliminary IRM tan 45 study following parametric study. -ICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity cases. -EC approves list of sensitivity cases. -EC approves list of sensitivity cases. -ICS reviews parametric study results and preliminary tan 45 analysis and IRM.		6/20/47	7/44/47	-ICS approves preliminary 2018 IRM Study Assumptions Matrix.
-NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study reportNYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. 8/2/17 8/11/17 -ICS approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.		6/28/1/	//14/1/	
August ICS/NYISO -NYISO conducts preliminary IRM tan 45 study following parametric studyICS prepares list of proposed sensitivity cases and submits to ICS chair. -ICS approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.	t. d.	ICS/NYISO		-NYISO performs parametric study to be used as the basis for Table 6-1 of IRM Study report.
-ICS prepares list of proposed sensitivity cases and submits to ICS chair. 8/2/17 8/11/17 -ICS approves list of sensitivity casesEC approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.	July			
August 8/2/17 8/11/17 -ICS approves list of sensitivity casesEC approves list of sensitivity casesICS reviews parametric study results and preliminary tan 45 analysis and IRM.				-ICS prepares list of proposed sensitivity cases and submits to ICS chair.
August 8/2/1 8/11/1 -EC approves list of sensitivity cases. 8/15/17*ICS reviews parametric study results and preliminary tan 45 analysis and IRM.		8/2/17	8/11/17	
8/15/17*ICS reviews parametric study results and preliminary tan 45 analysis and IRM.				, , ,
	August	8/15/17*		
		ICS/NYISO		-NYISO sends the completed initial master input file to GE by 8/22.

20	ICS Meeting	EC Meeting	2040 40 IDNA Charles Milesternes
Month	Assignments for month		2018-19 IRM Study Milestones
			-ICS approves parametric results for Table 6-1.
	8/29/17	9/11/17	-ICS approves preliminary base case IRM.
			-EC reviews preliminary base case IRM and parametric results.
September	ICS/NYISO		-NYISO provides initial masked/encrypted input data to TOs for data quality assurance review by 9/15.
			-NYISO begins sensitivity testing based on preliminary base case.
			-NYISO staff/LFWG prepares fall load forecast and delivers to ICS.
			-NYISO, GE and TOs complete preliminary base case data quality assurance reviews.
			-By 9/26, NYISO submits final transmission topology changes, if any, to TPAS and ICS.
			-ICS approves fall load forecast.
			-NYISO and TOs report preliminary data base quality assurance review.
			-ICS accepts preliminary data base quality assurance review.
	10/4/17	10/13/17	-ICS reviews and approves preliminary sensitivity results.
			-EC reviews preliminary sensitivity results.
October			-ICS approves Final 2018 IRM Base Case Assumption Matrix.
October			-EC approves Final 2018 IRM Base Case Assumption Matrix.
			-NYISO completes sensitivity testing.
			-ICS conducts base case study and determines final base case including tan 45 analysis and IRM.
	ICS/NYISO		-ICS prepares initial draft IRM report, including Tables 6-1 and 7-1.
			-NYISO delivers final base case input files to GE for incremental review and masking.
			-GE provides masked data base to the NYISO.
	11/1/17	11/9/16	-NYISO provides masked database for final TO review.
			-NYISO reports any changes based on final base case review.
			-ICS reviews and provides comments on initial draft IRM report.
			-EC reviews and provides comments on initial draft IRM report.
			-ICS approves final base case IRM.
			-EC approves final base case IRM.
November			-ICS identifies the need for a special sensitivity case.
	11/15/17*		-ICS accepts final base case quality assurance review.
			-ICS determines if special sensitivity case assumptions should be included in final base case, and obtains EC
			approval.
	ICS/NYISO		-If identified by ICS, prepare special sensitivity case, including Tan 45 analysis by 11/15/17(ICS).
			-Complete final base case quality assurance review by November 15 (NYISO).
			-Prepare final draft IRM report (ICS).
	11/28/17	12/8/17	-ICS approves final draft 2018 IRM report.
Desember			-EC approves 2018 IRM report, Final 2017 IRM, and IRM resolution.
December	ICS/EC/NYISO		-Issue 2018 IRM letter to NYISO CEO (EC).
			-IRM Filing to FERC if required (EC).

02/01/2017 ICS approved

Month	ICS Meeting	EC Meeting	2018-19 IRM Study Milestones
	Assignments for month		2010-13 INIVI Study Willestones
			-Prepare LCR realignment study if Final 2018 IRM is less than base case IRM (NYISO).
			-Special conference call around 12/15/17, if needed, to approve LCR realignment study (ICS).*

^{*}Conference call – date shown is preliminary.