
	© ISO New England, Inc. 2024	Master/LCC Procedure No. 15 - System Operating Limits Methodology, Attachment J
		Revision Number: 10 Revision Date: September 17, 2024
Owner: Manager, Real-Time Studies		Approved by: M/LCC Heads
		Review Due Date: September 17, 2025

Attachment J- SOL and IROL Interfaces

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1. Purpose

Table 1 identifies the SOL and IROL Interfaces by LCC and by name, which can be used by each applicable LCC to monitor its SOL and IROL Interfaces. These SOL and IROL Interfaces do **not** include all SOL and IROL limits. For a full list of SOL and IROL limits, refer to the Transmission Operating Guides. In addition, critical IROL interfaces in adjoining areas monitored in EMS are also noted below.

The definition for each Interface can be found under “Generic Interface Constraints” on the external ISO-NE website at:

<https://www.iso-ne.com/isoexpress/web/reports/pricing/-/tree/pricing-support-documents>




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Table 1 - SOL and IROL Interfaces


CONVEX		
Violation Type	Short Name	Interface Name
IROL	CT-EXP	CONNECTICUT EXPORT
IROL	CTIMP	CONNECTICUT IMPORT
IROL	KLNHCS	KLEEN,MIDD,CSC & E_SHORE GEN
IROL	MIL3	MILLSTONE 3 GENERATION
IROL	MIL2&3	MILLSTONE STATION
IROL	NE_EW	NE EAST-WEST
IROL	NE_WE	NE WEST - EAST
IROL	NENY	NEW ENGLAND - NEW YORK
IROL	NRST	NEW ENGLAND - NORWALK STAMFORD
IROL	SWCT	NEW ENGLAND - SW CONN
IROL	NYNE	NEW YORK - NEW ENGLAND
IROL	NOSO	NORTH - SOUTH
IROL	WESTCT	WESTERN CONNECTICUT IMPORT
SOL	BERK	BERKSHIRE POWER GENERATION
SOL	LAKERD	LAKE ROAD GENERATION
SOL	MFD1	MILFORD POWER GENERATION 1
SOL	MFD2	MILFORD POWER GENERATION 2
SOL	MIL2	MILLSTONE 2 GENERATION
SOL	NHHB	NEW HAVEN HARBOR GENERATION
SOL	NFLDGN	NORTHFIELD GENERATION
SOL	NFLDG1	NORTHFIELD GENERATION 1
SOL	NFLDG2	NORTHFIELD GENERATION 2
SOL	NFLDG3	NORTHFIELD GENERATION 3
SOL	NFLDG4	NORTHFIELD GENERATION 4
SOL	NFPUMP	NORTHFIELD PUMPING
SOL	STNBRK	STONY BROOK GENERATION

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CONVEX		
Violation Type	Short Name	Interface Name
SOL	TOWA	TOWANTIC GENERATION
SOL	WALNGF	WALLINGFORD GENERATION

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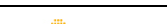
MAINE		
Violation Type	Short Name	Interface Name
IROL	COMI-S	COOPERS MILL - SOUTH
IROL	MENH	MAINE - NEW HAMPSHIRE
IROL	MENH+N	MAINE-NH + NEWINGTON GEN
IROL	NBNE-D	NB - NE MINUS DPL
IROL	NBELRV	NB EEL RIVER
IROL	NBMADA	NB MADAWASKA IMPORT
IROL	MADA_E	NB MADAWASKA EXPORT
IROL	NBSSEM	NB SSCL EEL RIVER AND MADAWASKA
IROL	NB-NE	NEW BRUNSWICK - NEW ENGLAND
IROL	NBLL	NEW BRUNSWICK LOAD LOSS
IROL	NE-NB	NEW ENGLAND - NEW BRUNSWICK
IROL	NHME	NEW HAMPSHIRE - MAINE
IROL	NS_ST	NNE345-SCOBIE + 394
IROL	NENE	NORTH-EAST NEW ENGLAND IMPORT
IROL	OR-IMP	ORRINGTON IMPORT
IROL	ORR-NO	ORRINGTON - NORTH
IROL	ORR-SO	ORRINGTON - SOUTH
IROL	SURO-S	SUROWIEC - SOUTH
SOL	BH+KRE	BANGOR HYDRO & KEENE RD EXPORT
SOL	BH-EXP	BANGOR HYDRO EXPORT
SOL	BNGW	BINGHAM WIND GENERATION
SOL	BLHW	BULL HILL WIND GENERATION
SOL	DNEAST	DOWN EAST LOOP EXPORT
SOL	INDEC6	INDEC6
SOL	HANW	HANCOCK WIND GENERATION
SOL	WYM-EX	INNER WYMAN EXPORT
SOL	KR-EXP	KEENE ROAD EXPORT

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MAINE		
Violation Type	Short Name	Interface Name
SOL	KIBW	KIBBY WIND
SOL	MIS	MAINE INDEPENDENCE GENERATION
SOL	NDCOGN	NINE DRAGONS CO-GENERATION
SOL	OAKW	OAKFIELD WIND UNIT
SOL	OWYM-E	OUTER WYMAN EXPORT
SOL	PWRSVL	POWERSVILLE ROAD GENERATION
SOL	IRMF-E	RUMFORD EXPORT
SOL	RUMFIP	RUMFORD IP GENERATION
SOL	STRA	REENERGY STRATTON GENERATION
SOL	VCG	VERSO COGEN GENERATION
SOL	WEAVW	WEAVER WIND GENERATION

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NGRID		
Violation Type	Short Name	Interface Name
IROL	CT-EXP	CONNECTICUT EXPORT
IROL	CTIMP	CONNECTICUT IMPORT
IROL	LS-ERI	LOWER SEMA/EASTERN RI IMPORT
IROL	NE_EW	NE EAST-WEST
IROL	NE_WE	NE WEST-EAST
IROL	BSTN	NEW ENGLAND - BOSTON
IROL	NENY	NEW ENGLAND - NEW YORK
IROL	NYNE	NEW YORK - NEW ENGLAND
IROL	NS_ST	NNE345-SCOBIE + 394
IROL	NENE	NORTH-EAST NEW ENGLAND IMPORT
IROL	NOSO	NORTH - SOUTH
IROL	HQP2	PHASE 2 EXPORT
IROL	HQP2_I	PHASE 2 IMPORT
IROL	RI-IMP	RHODE ISLAND IMPORT
IROL	SEMASB	SEMA + SOUTH OF BOSTON IMPORT
SOL	BSWGN	BEARSWAMP GENERATION
SOL	BSWPMP	BEARSWAMP PUMPING
SOL	BEL1-2	BELLINGHAM UNITS 1 AND 2
SOL	CARPEX	CARPENTER HILL EXPORT
SOL	CO_M_M	COMERFORD/MOORE - MONITORING
SOL	C+M_GN	COMERFORD/MOORE GENERATION
SOL	GR_GT1	GRANITE RIDGE UNIT 1
SOL	MILLEN	MILLENNIUM GENERATION
SOL	MOR1	MOORE GENERATION 1
SOL	MOR2	MOORE GENERATION 2

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NEW HAMPSHIRE		
Violation Type	Short Name	Interface Name
IROL	MENH	MAINE - NEW HAMPSHIRE
IROL	MENH+N	MAINE NH + NEWINGTON GEN
IROL	NE_EW	NE EAST-WEST
IROL	NE_WE	NE WEST-EAST
IROL	NHME	NEW HAMPSHIRE - MAINE
IROL	NEWA	NEWINGTON AREA GENERATION
IROL	NEWE	NEWINGTON ENERGY
IROL	NEWS	NEWINGTON STEAM
IROL	NS_ST	NNE345-SCOBIE + 394
IROL	NENE	NORTH-EAST NEW ENGLAND IMPORT
IROL	NOSO	NORTH - SOUTH
IROL	SBRK_S	SEABROOK - SOUTH
IROL	SBRK	SEABROOK GENERATION
SOL	BURG	BURGESS GENERATION
SOL	GRPW	GRANITE REL WIND GENERATION
SOL	GROW	GROTON WIND GENERATION
SOL	MK2	MERIMACK UNIT 2
SOL	NHSC-I	NEW HAMPSHIRE SEACOAST IMPORT
SOL	WTS+GR	WHITEFLD SOUTH + GRPW

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NSTAR		
Violation Type	Short Name	Interface Name
IROL	CANAL	CANAL GENERATION
IROL	LS-ERI	LOWER SEMA/EASTERN RI IMPORT
IROL	BSTN	NEW ENGLAND - BOSTON
IROL	NENE	NORTH-EAST NEW ENGLAND IMPORT
IROL	SEMASB	SEMA + SOUTH OF BOSTON IMPORT
SOL	BARNEX	BARNSTABLE EXPORT
SOL	CANAL1	CANAL UNIT 1
SOL	CANAL2	CANAL UNIT 2
SOL	EDGAR	EDGAR GENERATION
SOL	VNRDW	VINEYARD WIND GENERATION
SOL	WMJ3	WEST MEDWAY J3


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RIE		
Violation Type	Short Name	Interface Name
IROL	CT-EXP	CONNECTICUT EXPORT
IROL	CTIMP	CONNECTICUT IMPORT
IROL	LS-ERI	LOWER SEMA/EASTERN RI IMPORT
IROL	NE_EW	NE EAST-WEST
IROL	NE_WE	NE WEST-EAST
IROL	RI-IMP	RHODE ISLAND IMPORT
IROL	SEMASB	SEMA + SOUTH OF BOSTON IMPORT
SOL	TIVRTN	TIVERTON GENERATION

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VELCO		
Violation Type	Short Name	Interface Name
IROL	NE_EW	NE EAST-WEST
IROL	NE_WE	NE WEST-EAST
IROL	NENY	NEW ENGLAND - NEW YORK
IROL	NYNE	NEW YORK - NEW ENGLAND
IROL	NOSO	NORTH - SOUTH
SOL	HIGATE	HIGHGATE EXPORT
SOL	HI-IMP	HIGHGATE IMPORT
SOL	KCW	KINGDOM WIND GENERATION
SOL	NWVT_I	NORTHERN VERMONT IMPORT
SOL	SHFHGE	SHEFFIELD + HIGHGATE EXPORT
SOL	SHEF	SHEFFIELD GENERATION


NYISO		
Violation Type	Short Name	Interface Name
IROL	NYCE	NEW YORK CENTRAL EAST

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M/LCC 15 Attachment J Revision History

The applicable contents in this document formerly resided in M/LCC 6 Attachment G - IROL Interfaces (Retired 6/4/19).

Rev. No.	Date	Reason
0	06/04/19	Initial version
0.1	06/04/19	Typo correction between TOC and Table 1 title (per SOP-RTMKTS.0210.0010 Section 5.12);
1	10/17/19	Rev 0.1 Revision History, replaced "draft" with "06/04/19"; CONVEX and VELCO tables, added NE-NY + CRICKET VALLEY GEN (NENYC); CONVEX table, added STONY BROOK GENERATION (STNBRK); MAINE table, added NB MADAWASKA EXPORT, (MADA_E) NB EEL RIVER (NBELRV), NB MADAWASKA (NBMADE) and NB SSCL EEL RIVER AND MADAWASKA (NBSSEM); NGRID table, changed PHASE 2 to PHASE 2 EXPORT (HQP2) and added PHASE 2 IMPORT (HQP2_I); NGRID and NSTAR tables, removed SOUTHEAST MASS - NEW ENGLAND (SEMA); NGRID table, added MOORE 1 GENERATION (MOR1) and MOORE GENERATION (MOR2);
1.1	04/10/20	Annual review perform by document owner requiring no changes
2	05/22/20	Deleted "NE-NY + Cricket Valley Gen" from Convex table; Added "Kibby Wind" to Maine table
3	10/21/20	Added WEAUVW, DNEAST, and INDEC6 to Maine Table
4	12/02/20	Deleted "NE-NY + Cricket Valley Gen" from VELCO Table.
4.1	03/23/21	Annual review performed by owner with no changes required.
5	04/27/21	NSTAR table: reclassify "CANAL GENERATION" interface from SOL to IROL to agree with TOG classification
6	12/20/21	Annual review performed by owner: Deleted "MYSTIC STATION" IROL from NGRID and NSTAR tables
7	10/05/22	Added "NE EAST-WEST" and "NE WEST-EAST" to IROL Interfaces for VELCO due to previous omission; Added statement in Purpose section: "In addition, critical IROL interfaces in adjoining areas monitored in EMS are also noted below." Added "NEW YORK CENTRAL EAST" as an IROL Interface in new NYISO table.
8	03/23/23	Annual review performed by document owner; Added "SEMASB" as an IROL Interface to NGRID and NSTAR Tables; Added "CARPEX" as an SOL Interface to NGRID Table; Deleted "LAKE RD & OCEAN ST GENERATION" from CONVEX Table; Deleted "SALEM 5" and "SALEM 6" from NGRID and NSTAR Tables; Added "NENE" as an IROL Interface to MAINE, NEW HAMPSHIRE, NGRID and NSTAR Tables.
9	01/23/24	Periodic review performed by procedure owner; Deleted "SEMARI" and "SEMARI" from NGRID and NSTAR Tables; Added "BARNEX" and VNRDWD to NSTAR table; Reformatted all tables to sort alphabetically by Interface Name column; Deleted BEL1-2 from NSTAR table and added it to NGRID table.
9.1	05/20/24	Annual review performed by document owner; Added RIE Table; Removed Tiverton from NGRID Table and moved to RIE Table.

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Rev. No.	Date	Reason
10	09/17/24	Periodic review performed by procedure owner; Added: Hancock Wind Generation, Inner Wyman Export, Nine Dragons Co-Generation, Powersville Road Generation, Reenergy Stratton Generation, Rumford Export, and Outer Wyman Export to Maine Table; Added: New Haven Harbor Generation to CONVEX Table; Removed: Inner Rumford Export, Outer Rumford Export, and Wyman Hydro Export from Maine Table; Removed Mystic 8 + 9 from NGRID and NSTAR tables Renamed: North-South to North - South throughout; Down East Export to Down East Loop Export; NB Madawaska to NB Madawaska Import, KIBY to KIBW; Millennium Units 1 & 2 to Millennium Generation.