



# Operating Procedures

ISO New England Operating Procedure No. 12

*Voltage and Reactive Control – Appendix A –  
Voltage/Reactive Documents in the ISO New  
England Transmission Operating Guides*

Effective Date: February 17, 2011  
Revision No. 9

**Voltage/Reactive Documents in the ISO New England Transmission Operating Guides**

Voltage/Reactive Document	1	2	3	4	5	6	7
	Voltage Limits	Units Critical to Voltage Control	Required Reactive Reserves	Shunt Information	Interface Voltage Transfer Limits	Line Switching for High Voltage	Load Management Actions
Eastern Massachusetts and Rhode Island Low Voltage Guide	X		X	X			X
Northern New England Transmission Corridor-Low Voltage Guide	X	X		X			X
Northern New England Transmission Corridor-High Voltage Guide	X	X		X			X
Orrington Capacitor Bank Control Operating Guide	X			X			
Boston Import Area Operations Planning Guide and Operations Guide	X			X		X	X
Northern Vermont Interface (NVI) Limit Guide	X	X	X		X		
M/LCC 9 - Operation of the Chester SVC	X		X	X			
M/LCC 1 - Nuclear Plant Transmission Operations, Atts A, B, C, & D	X						
Procedure to Protect for Loss of Single Source Contingency Guide					X		
Southwest Connecticut Import Voltage/Reactive Limit Guide	X	X			X		
Tremont-East Area Operations Guide	X	X	X	X	X		X
Connecticut Import Voltage/Reactive Limit Guide	X	X			X		
New England to New Brunswick Voltage/Reactive (V/R) Limit Calculator Guide	X	X	X	X	X		
VELCO Highgate Converter Export Guidelines	X		X	X	X		

This document is controlled when viewed on the ISO New England Internet web site. When downloaded and printed, this document becomes **UNCONTROLLED**, and users should check the Internet web site to ensure that they have the latest version. In addition, a Controlled Copy is available in the Master Control Room procedure<sup>1</sup> binders at the ISO.

The information contained in this document is for use by ISO New England staff and the Local Control Centers and is subject to modification. ISO New England Inc. is not responsible for any reliance on this document by others, or for any errors or omissions or misleading information contained herein.

Voltage/Reactive Document	1	2	3	4	5	6	7
	Voltage Limits	Units Critical to Voltage Control	Required Reactive Reserves	Shunt Information	Interface Voltage Transfer Limits	Line Switching for High Voltage	Load Management Actions
Voltage Reactive Coordination of New England-New Brunswick Interface Guide	X	X	X	X	X		
Western Maine Area Voltage Support Requirements Guide		X	X	X			X
Southwest Connecticut Unit Commitment Requirements		X	X	X			
Pittsfield Area Operating Guide	X	X		X			
Connecticut Operating Guide	X		X		X		X
Halvarsson-Tomson 481 Line Guide	X						
Norwalk Harbor-Northport 601, 602 & 603 Cables Operating Guide	X						
388 Line Out Guide		X					X
ISO-NE – NBSO CDI-001 Operating Guide			X	X	X		
NewPage Plant Load Shedding Scheme Description Guide	X						X
C-040 Common Dispatch Instructions for HQ & ISONE for ± 450 kV DC Line					X		
Gen-C-042 Common Operating Instruction for the Phase II Facilities	X			X	X		
M/LCC 5 Att B - Procedure for Millstone Point Station Generation Reduction		X			X		
Northwest New England 345 kV High Voltage Guide	X	X	X	X		X	

**OP 12 APPENDIX A REVISION HISTORY**

**Document History** (This Document History documents action taken on the equivalent NEPOOL Procedure prior to the RTO Operations Date as well revisions made to the ISO New England Procedure subsequent to the RTO Operations Date.)

Rev. No.	Date	Reason
Rev 1	05/23/03	
Rev 2	08/05/03	
Rev 3	07/25/04	
Rev 4	11/09/04	
Rev 5	02/01/05	Updated to conform to RTO
Rev 6	09/07/06	Revised document references
Rev 7	12/20/07	Revised document references
Rev 8	02/26/10	Reformatted, changed font to Arial; Added uncontrolled disclaimer to footer; Updated list to reflect current document usage
Rev 9	02/17/11	Biennial review by procedure owner; NVI data row added x in column 3 (Required Reactive Reserves); Corrected the title "Procedure to Protect for Loss of Single Source Contingency Guide" Provided the correct title "Norwalk Harbor-Northport 601, 601 & 603 Cables Operating Guide" Provided the correct title "Newpage Plant Load Shedding Scheme Description Guide" Added data row for Northwest New England 345 kV High Voltage Guide