

**Requirement for Transient Voltage Recovery  
8KD West Bus (Holtsville) DRSS I/S  
Issued 07/24/2015**

**(To be used for Summer period May 1<sup>st</sup> through September 30<sup>th</sup>)**

DSPTCH	3900-4000 (MW)				4001-4200 (MW)					4201-4300 (MW)				4301-4500 (MW)				4501-4800 (MW)				CONVERSION For Load Levels 4301-4800 (MW)	4801-5000 (MW)		5001-5150 (MW)		5151-5300 (MW)		CONVERSION For Load Levels 4801-5300 (MW)	5301-5450 (MW)			5451-5600 (MW)		5601-5700 (MW)		COMMON CONVERSION For All Load Levels											
	Note (14)																					Note (10)	Note (11)		Note (12)		Note (11)	Note (12)	Note (10)	Note (13)			Note (13)		Note (13)													
CAITHNESS	1	1	0	0	1	1	1	0	0	1	1	0	0	1	1	0	0	1	1	0	0	If 2 East End units are online, 1 Holtsville 69kV GT can be backed-off from the RED Box	1	0	1	0	1	0	If 4 East End units are online, 2 Holtsville 69kV GT can be backed-off from the Blue Box.	1	1	0	1	0	1	0	1	0	1 LM6000 (Port Jeff or Shoreham) = 1 Holtsville 69kV or 1 Holtsville 138kV or 1 Wading River or Shoreham 1&2									
# NPT STM	0/1	2/3/4	0/1	2/3/4	0/1	2	3/4	2	3/4	2	3/4	2	3/4	2	3/4	2	3/4	2	3/4	2	3/4		3/4	3/4	3/4	3/4	3/4	3/4		0	0	2	2	2	2	3	4	3/4	4	4	4	4						
# PJ LM6000	2	0	0	0	2	1	0	2	2	2	1	2	2	2	2	2	2	2	2	2	2		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2									
# PJ STM	0	0	2	1	0	0	0	2	1	0	0	2	2	1	1	2	2	2	2	2	2		2	2	2	2	2	2		2	2	2	2	2	2	2	2	2	2									
# HOLTS 69 GT	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	2	1	1	0	3	3		3	5	4	5	5	5		5	5	0	0	2	2	2	2	5	4	5	5	5	5	5				
# SHRM LM 6000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	1		0	0	0	0	0	0	0	0	2	2	2	2	0	0	2	2	2	2	2
# WDNG RIV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	1	0	3	1	3	0	0	1	0	3	1	3			
# HOLTS 138kV	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	2				
# SHOR 1&2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0				
NYPA Holts (see Note 6)	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0		1/0	1/0	1/0	1/0	1/0	1/0		1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0									
CSC	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1									
East of Riverhead	Follow East End Operating Guideline																																															

- Note:**
- Based on dispatch awards for Caithness and Northport, select units in box for dispatch.
  - Caithness, NYPA Holtsville, and CSC are the most economic and will usually be awarded in the DAM.
  - This analysis was conducted utilizing the latest Caithness SRIS dynamic data.
  - This guideline assumes that Canal DRSS is in service. If Canal DRSS is not in service, all East of Holbrook units should be dispatched for load levels above 5300 MW.
  - Analysis assumed the tripping of the NYPA Holtsville units for the worst contingency (phase to phase to ground fault on Ruland to Holbrook/Pilgrim to Holtsville GT 138 kV double circuit; 138-881/882).
  - If the NYPA Flynn - Holtsville plant is out of service, no substitution is necessary as the guideline will not change.
  - Dispatch of the Northport 138kV shunt reactor connected to bus 1-1 will not change the guideline.
  - These columns are based on interpolation of the results on either side due to the need to reduce out of merit dispatch.
  - All East of Holbrook and East End Cap Banks assumed to be in service including Culloden Point Cap Bank
  - For load levels 4301 MW - 4800 MW, if 2 East End units are online (if required as per East End guideline) 1 Holtsville 69kV GT can be backed-off from the guideline. Similarly for load levels 4801 MW - 5300 MW, if 4 East End units are online (if required as per East End guideline) 2 Holtsville 69kV GT's can be backed-off from the guideline.
  - Above 5000 MW system load level having Caithness I/S at least one East of Riverhead unit recommended to be dispatched.
  - Above 5000 MW system load level having Caithness O/S, all East of Riverhead units are recommended to be dispatched.
  - Above 5300 MW system load level, all East of Riverhead units are recommended to be dispatched regardless of East End guideline and Caithness availability.
  - Below 3900 MW system load level having Caithness I/S, no units are required to be dispatched for TVR.