

Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
1.	345 kV Reliability Project (NSTAR) Construction of a three-circuit, 345 kV underground transmission line from Stoughton, MA to both the Hyde Park & K-street substations in Boston. Project to be completed in two phases. Phase 1 ISD July 2006 Phase 2 ISD 2008	July 2004 RC issued conditional approval, pending completion of harmonics studies, analyses of NRI Project effects, completion of equipment and line rating assessments, and the subsequent mitigation of any adverse effects discovered to provide additional upgrades, as required. Conditional approved by ISO letter on August 4, 2004. NSTAR completed harmonics study. As a result, a revised application (NSTAR-04-T04 rev 1, removing the conditions) was submitted and the RC recommended approval on December 13, 2004. ISO approval letter sent on February 10, 2005.	NSTAR-04-TCA-01 Rev 1 Application submitted in July 2004 and the RC requested additional information. NSTAR re-submitted in August 2004, and the NEPOOL RC recommended approval. Total costs include transmission upgrades to avoid significant adverse effects on Exelon New England's New Boston 1 Generator. ISO determination letter sent on September 15, 2005.	4	\$234.216	\$225.562 ISO determination amount Requested & RC recommended amount was = \$234.2M	\$8.654		
1a.	345 kV Reliability Project (NSTAR) Construction of a three-circuit, 345 kV underground transmission line from Stoughton, MA to both the Hyde Park & K-street substations in Boston. Project to be completed in two phases. Phase 1 ISD July 2007 Phase 2 ISD 2009	Not required	NSTAR-04-TCA-01 Rev 2 NSTAR submitted a revised TCA on March 23, 2007 requesting an additional \$57.7M in PTF costs associated with phase 1 of the project, due to increases in materials and labor. The ISO sent an additional information request on April 24, 2007. NSTAR Replied on May 7, 2007. The ISO sent another additional information request on May 23, 2007 which was replied on May 25, 2007. A May RC vote was expected but deferred as RC requested additional time to review NSTAR's response to additional information request letter from ISO. In a special teleconference held on May 30, 2007, RC recommended approval for \$57.544M. ISO sent another additional information request on June 19, 2007. NSTAR's response was received on July 2, 2007. ISO determination letter sent January 2, 2008	4	\$57.700	\$57.469 Requested \$57.700M additional costs for Phase 1 only	\$0.231		
2.	Northeast Interconnect Project (BHE) Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. ISD December 2007	Recommended for approval by NEPOOL RC on March 2003. ISO approval letter sent in March 2003.	BHE-04-TCA-T01 July 2004, NEPOOL RC/ISO conditionally approved, pending resolution of MEPCO issues. ISO determination letter sent on 7/28/04. There are cost over-runs due to engineering/design changes and materials that have resulted in a new estimated project cost of \$136M, as reported to the RC on 4/4/07 and to ISO-NE on 3/23/07	4	\$90.400	\$90.400			Non PTF costs submitted for Canadian portion of the project = \$40M
2a.	Northeast Reliability Interconnect Project (BHE) Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. ISD December 2007	Not required	BHE-04-TCA-T01 Rev 1 Submitted to ISO-NE on 4/18/06. At the May 2, 2006 meeting, the motion to approve the additional funds was not approved (@59% in favor). ISO to prepare additional questions based on comments heard at the RC meeting. This request was sent on 5/5/06 and BHE response was received 5/9/06 but later updated on 5/12/06. The ISO determination letter sent on 5/15/06.	3	\$19.500 New total including Rev 1 \$109.9M	\$19.500			Original Non PTF costs submitted = \$48M.
2b.	Northeast Reliability Interconnect Project (BHE) Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. ISD December 2007	Not required	BHE-04-TCA-T01 Rev 2 RC recommended approval on July 10, 2007. ISO requesting additional information request letter sent September 10, 2007 and BHE responded on September 19, 2007.	4	\$34.100 New total including Rev 2 \$144M	\$34.100			Original Non PTF costs submitted = \$51M.
3.	Phase I SWCT (NU) New 20.4 mile UG 345 kV transmission line between Bethel CT (Plumtree S/S) & Norwalk CT (Norwalk S/S). Also replacement of certain sections of existing 115 kV transmission to UG between Plumtree S/S - Peaceable S/S - Norwalk S/S. ISD December 2006	NU-04-T01 through NU-04-T08 and U1-04-T01 Recommended for approval by NEPOOL RC on February 3, 2004. ISO approval letter sent in February 2004.	NU-04-TCA-04 (ISO received 1st draft of the Application 12/21/04 and updated Application on 1/18/05). NU-04-TCA-04 Rev. 1 received 2/6/06 (as part of ISO Question set dated 1/11/06). The ISO determination letter was released on 6/15 for a 30-day comment period ending 7/14. Comments were received from Connecticut Governor, Connecticut Attorney General, CL&P/NU, CT DPUC & Connecticut Office of Consumer Counsel (joint comments), UI, MA DTE, and ME PUC. ISO determination letter sent on September 22, 2006.	4	\$357.200	\$239.800 ISO final letter amount Requested \$354.8M per Rev 1 TCA application \$357.2M original TCA application	\$117.400		ISO final letter amount Requested \$2.4M per Rev 1 TCA application \$0M per original TCA application

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
3a.	Breaker Replacement/Upgrade at Pequonnock Substation (UI) Replacement of 15 existing gas circuit breakers at the 115 kV Pequonnock Substation. ISD July 2005	UI-04-T04 Level I – for info only. ISO approval letter sent on January 28, 2005. (NOTE: Replaces condition associated with NU Phase I approval)	UI-04-TCA-03 RC recommended approval on 2/1/05. ISO determination letter sent on 3/9/05.	2	\$1.750	\$1.750			
4.	Phase II SWCT (NU)		TCA expected in late March 2008.						
5.	Northwest Vermont Reliability Project (VELCO) Increase reliability by improving transmission in the Burlington area. Four parts to the project: (i) New Haven 345 kV S/S ISD May 2006 (ii) West Rutland - New Haven 345 kV line ISD May 2006 (iii) New Haven - Queen City 115 kV line ISD March 2007 (iv) Granite STATCOM/Upgrades ISD October 2007	January 2003 ISO approved (pre-100th amendments) VELCO must file new application to reflect material modifications ordered by VT PSB. Revised 1.3.9 applications (level I) have started to be submitted. The first set were approved at the December 15, 2005 RC meeting.	NEPOOL PC approved (pre-100th amendment) Revised TCA expected in Spring 2008. Presentation made to the RC on March 18, 2008 regarding cost over-runs of approximately \$100M.						
6.	UI Highway Relocation Project (UI) "Q-Bridge" Reconstruction of the Pearl Harbor Memorial Bridge (formally known as the "Q-bridge") in New Haven, CT. This conflicts with portions of the seven of UI's overhead and underground transmission lines. UI has been ordered to relocate the conflicting lines. Modifications required to these lines will not result in any changes in transmission line ratings. ISD February 2005	Accepted as a Level I, Information Only by NEPOOL RC on October 5, 2004. ISO approval letter sent on October 8, 2004.	UI-04-TCA-01 REPLACEMENT IN KIND NEPOOL Transmission Committee discussed at their June 16, 2005 meeting. UI resubmitted their application on July 12, 2005. RC recommended approval of \$1.4M for PTF on 7/28. A data request was sent out on 3/24/06 for additional information. The response was received 4/25. ISO Determination Letter was sent 5/3/06 supporting \$1,124,788 rather than \$1,401,330 as PTF.	2	\$10.100	\$1.124 Original request \$1.401M	\$0.276	\$8.686	CT DOT to pay these costs as per revised TCA
7.	Glenbrook STATCOM (NU) Three Projects (i) STATCOMs (2) (ii) Capacitor Banks (3) (iii) 1977 Line Tap (i) Install new 115 kV 1977-line position at the Glenbrook substation, tap the existing Darien to South End 1977-line forming a new three terminal transmission line. (ii) Install three-50 MVAR Capacitor banks at the Glenbrook substation (iii) Install two +/-75 MVAR STATCOMs at the Glenbrook substation ISD June 2004	Recommended for approval by NEPOOL RC on June 12, 2002. ISO approval letter sent on June 14, 2002.	NU-04-TCA-T01, T02 & T03 Pre-100th amendment: NEPOOL approved. Post-100th amendments: July 22, 2004. NEPOOL RC recommended approval of added costs for siting and construction issues redesign necessitated by the discovery of underground obstructions, and a change from overhead to underground construction for the three projects, respectively. ISO determination letter sent on December 21, 2004.	4 2 3	\$41.100	An increase from \$29.6M (original application) to \$41.1M			(i) from \$25.9M to \$33.9M (ii) from \$1.8M to \$2.1M (iii) from \$1.9M to \$5.1M for a total of \$41.1M
8.	Raynham 115 kV Substation in Raynham, MA (National Grid) (i) Replace one double-circuit steel tower with a two-column line/switch structure & add two Motor Operated Disconnects on line U-6. (ii) Replace one wood H-frame structure with a 6-column, 2 bay switch/bus structure & add two Motor Operated Disconnects on line S-8. ISD May 2006	Recommended for approval by NEPOOL RC on December 10, 2002. ISO approval letter sent on December 17, 2002.	NEP-04-TCA-T15 NEPOOL RC recommended approval on October 5, 2004. ISO determination letter sent on December 21, 2004.	2	\$0.962	\$0.962			
8a.	Raynham 115 kV Substation in Raynham, MA (National Grid)) (i) Replace one double-circuit steel tower with a two-column line/switch structure & add two Motor Operated Disconnects on line U-6. (ii) Replace one wood H-frame structure with a 6-column, 2 bay switch/bus structure and add two Motor Operated Disconnects on line S-8. ISD May 2006 (Delay due to working taking longer than expected on the U-6 Line)	Not required	NEP-04-TCA-T15 Rev 1 RC recommended approval on July 19, 2006. ISO determination letter sent on October 11, 2006.	2	\$0.135	New total including Rev 1 \$1.097M	\$0.135		

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
9.	Upgrade 9 miles of 115 kV overhead line, X-176 from Palmer, MA to NU border (National Grid) Re-conductor 9 miles of the 115 kV line, X-176 and upgrade terminal equipment. ISD Spring 2005	Accepted as a Level I, Information Only by NEPOOL RC on October 5, 2004. ISO approval letter sent on October 8, 2004.	NEP-04-TCA-T14 NEPOOL RC recommended approval on October 5, 2004 (Post-100th Amendments) ISO determination letter sent on December 21, 2004.	2	\$4.145	\$4.145			
10.	SWRI Reliability Project (National Grid) Extend the 115 kV line L190 from Davisville/Old Baptist Rd tap to the West Kingston Substation, and install terminal equipment. ISD June 2007	NEP-04-T24 through NEP-04-T26 NEPOOL RC recommended approval on November 1, 2004. ISO approval letter sent on November 10, 2004.	NEP-04-TCA-T17 NEPOOL RC recommended approval on November 1, 2004. ISO determination letter sent on March 29, 2005.	3	\$10.141	\$10.141			
10a.	SWRI Reliability Project (National Grid) Reconductoring of Lines 1870N and 1870 at the West Kingston No. 63 substation and Wood River substation. ISD June 2008	NEP-04-T27 and NEP-04-T28 NEPOOL RC recommended approval on January 18, 2005. ISO approval letter sent on January 28, 2005.	NEP-04-TCA-18 RC recommended approval on January 18, 2005. ISO determination letter sent on March 29, 2005.	2	\$3.304	\$3.304			
10b.	SWRI Reliability Project (National Grid) Extend the 115 kV line L190 from Davisville/Old Baptist Rd tap to the West Kingston Substation, and install terminal equipment. ISD June 2008	NEP-04-T24 through NEP-04-T26 Rev 1 submitted to RC for review at April 2007 meeting.	NEP-04-TCA-17 Rev 1 NEPOOL RC Recommended approval on April 4, 2007. ISO determination letter sent on May 23, 2007.	3	\$11.064 New total including Rev 1 \$21.205M	\$11.064			
10c.	SWRI Reliability Project (National Grid) Reconductoring of Lines 1870N and 1870 at the West Kingston No. 63 substation and Wood River substation. ISD June 2008	NEP-04-T27 and NEP-04-T28 Rev 1 submitted to RC for review on April 2007.	NEP-04-TCA-18 Rev 1 RC recommended approval on April 4, 2007. ISO determination letter sent on May 23, 2007.	2	\$3.321 New total including Rev 1 \$6.625M	\$3.321			
11.	North Shore Upgrades (National Grid) (i) Ward Hill substation ISD June 2006 (ii) Salem Harbor substation ISD December 2005 (iii) Reconductoring the B154 & C155 115 kV Lines ISD December 2005	NEP-04-T20 and NEP-04-T21 Approved July 27, 2004. NEP-05-T07, T08, X01, X02 and X03 ISO approval letter sent on July 29, 2005. Note: For the Ward Hill S/S Project - Reconductoring the B154 & C155 Lines is a level I application. The addition of transformers and changing the taps to a ring bus configuration is a level III application.	NEP-05-TCA-04, North Shore Upgrades for 2005. Discussed at the 8/30/05 RC meeting. RC recommended approval on October 4, 2005. ISO determination letter sent on August 28, 2006.	4	\$70.100	\$67.455		\$2.610	
11a.	North Shore Upgrades (National Grid) Wakefield Jct. ISD June 2009	NEP-07-TCA-T03 through NEP-07-T07 initially submitted on September 12, 2007 but no has been taken due to additional studies needed.	NEP-07-TCA-01 Initially submitted on September 12, 2007 but RC action deferred due to PPA review delays.	4	\$124M	Requested \$119.75M		\$4.250	
12.	Monadnock Plan (NU) Provides transmission upgrades over a three-state area comprising southeastern VT, southwestern NH and north-central MA. ISD 2009	NU-06-T06 through NU-06-T11, NEP-06-T03, NEP-06-T04, VELCO-06-T01, and VELCO-06-T02. Approved March 14, 2006	Applications are yet to be submitted.	4	\$75M (First Estimate)				
13.	Pequonnock-Seaview Cables (UI) Costs associated with maintaining the stated ratings of the 1710/1730 lines presently limited by their underwater cable sections. ISD October 2004	UI-04-T03 Accepted as a Level I, Information only by NEPOOL RC on November 1, 2004. ISO approval letter sent on November 8, 2004.	UI-04-TCA-02 RC recommended approval on December 13, 2004. ISO determination letter sent on March 31, 2005.	2	\$1.100	\$1.100			

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)		PTF \$(Millions)		LOCAL \$\$ (Millions)		
									Local as per ISO	Non PTF as per TO	Comments
14.	Central Mass Reinforcement - Wachusett Project (National Grid) This project addresses: Thermal loading on 115 kV transformers at Millbury, Ayer and 345 kV transformers at Sandy Pond, as well as voltage in Central MA. Work to be completed in multiple sub-projects. ISD Fall 2006 (Note: some projects scheduled to be finished as soon as spring & summer 2005)	NEP-04-T01 through NEP-04-T13 NEPOOL RC recommended approval on May 4, 2004 and on January 18, 2005. Initial ISO approval letter sent on April 8, 2004. Due to revisions made to the project scope, second approval letter sent on January 28, 2005.	NEP-05-TCA-T01 RC recommended approval on 1/18/05. Additional information request was sent out April 5, 2006 and the response was received 4/13/06. ISO determination letter sent on April 24, 2006.	4	\$54.800	\$54.700		\$0.085			
15.	Rebuild and Reconductor Line 67 from Rebel Hill to Boggy Brook (BHE) Costs associated with reconstruction and reconductoring of 13.7 miles of BHE 115 kV transmission. ISD July 2007	BHE-04-T02 NEPOOL RC approved on December 13, 2004. ISO approval letter sent on December 17, 2004.	BHE-04-TCA-T02 RC recommended approval on December 13, 2004. ISO determination letter sent on March 31, 2005.	2	\$2.800	\$2.800					
16.	Rebuild and Reconductor Line 66 from Graham to Boggy Brook (BHE) Costs associated with reconstruction and reconductoring of 13 miles of BHE 115 kV transmission. ISD July 2007	BHE-04-T01 NEPOOL RC approved on December 13, 2004. ISO approval letter sent on December 17, 2004.	BHE-04-TCA-T03 RC recommended approval on December 13, 2004. ISO determination letter sent on March 31, 2005.	2	\$2.700	\$2.700					
17.	Line 433-507 Relocation onto new structures Project (NSTAR) Relocation of a 115 kV transmission line (Line 433-507) from a double circuit tower structure onto a set of new structures. ISD June 2005	NSTAR-05-T01 NEPOOL RC recommended approval on January 18, 2005. ISO approval letter sent on January 28, 2005.	NSTAR-05-TCA-01 RC recommended approval on January 18, 2005. ISO determination letter sent on March 31, 2005.	2	\$1.760	\$1.760					
18.	PSNH Pine Hill 115 kV Substation (NU) Addition of a second Xfmer and 115 kV Bkr to the PSNH Pine Hill 115 kV Substation. ISD June 2003	NU-03-T25 NEPOOL RC recommended approval on November 13, 2003. ISO approval letter sent on November 19, 2003.	NU-05-TCA-01 RC recommended approval on January 18, 2005. ISO determination letter sent on March 29, 2005.	2	\$2.768	\$1.963		\$0.800			
19.	Sherman Rd Substation (National Grid) Addition of a 345 kV breaker in series with existing breaker #140 at the Sherman Rd substation. ISD May 2004	NEP-03-T02 NEPOOL RC recommended approval on June 24, 2003. ISO approval letter sent on August 7, 2003.	NEP-04-TCA-16 RC recommended approval on November 1, 2004. ISO determination letter sent on March 31, 2005.	2	\$0.917	\$0.917					
20.	E-183 Project (National Grid) Relocation of 1.2 miles of Narragansett Electric Company's (NEC) 115KV overhead transmission line (designated E-183) associated with the Rhode Island Department of Transportation (RIDOT) relocation of the interstate highway. ISD May 2006	NEP-05-T04 Accepted as a Level 1, Information Only by NEPOOL RC on March 1, 2005. ISO approval letter sent on March 10, 2005.	NEP-05-TCA-02 On April 5th the RC voted to recommend that the ISO include \$600,000 as PTF. NEP requested reconsideration by the NPC at their meeting on 5/8/05. The NPC has asked the RC to reconsider & re-vote on this application at their June meeting. On June 14th the RC discussed and a re-voted the TCA application. The RC voted to recommend that the ISO included \$1.5M as PTF, which supersedes their previous vote of \$600,000 as PTF. ISO determination letter sent on February 6, 2006.	2	\$16.725	\$1.500	Original request \$3.775M Per ISO determination letter RC recommended \$1.5M	\$2.275	\$12.950	Original request \$12.9M Total localized costs are: \$15.224M where, Local agencies to pay \$12.949M and ISO found \$2.275M as local costs	
21.	Pleasant Substation Project (NU) Addition of third transformer and two breakers at the 115 kV Pleasant Substation in Lee, MA due to increased load. ISD May 2005	NU-04-T12 NEPOOL RC recommended approval on May 7, 2004. ISO approval letter sent on May 7, 2004.	NU-05-TCA-02 RC recommended approval on March 1, 2005. ISO determination letter sent on March 29, 2005.	2	\$0.795	\$0.795					
21a.	Pleasant Substation Project (NU) Addition of third transformer and two breakers at the 115 kV Pleasant Substation in Lee, MA due to increased load. ISD September 2005	Not required	NU-05-TCA-02 Rev 1 RC recommended approval on December 06, 2006. ISO determination letter sent on January 26, 2007.		\$0.100	New total including Rev 1 \$0.895M	\$0.100	New total including Rev 1 \$0.895M			

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22.	Todd Substation Project (NU) Installation of 115-13.8 kV transformer and 115 kV Circuit Breaker at Todd Substation in Wolcott, CT. ISD November 2004	NU-04-T36 ISO approval letter sent on November 10, 2004.	NU-05-TCA-04 RC recommended approval on March 16, 2005. ISO determination letter sent on March 29, 2005.	2	\$1.224	\$1.224			
23.	PSNH Chester Substation Project (PSNH/NU) Addition of 2nd transformer and 115kv circuit breaker at Chester substation in New Hampshire. ISD July 2004	NU-04-T19 ISO approval letter sent on June 1, 2004.	NU-05-TCA-06 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$1.416	\$1.416			
24.	PSNH Rochester Substation Project (PSNH/NU) Addition of 2nd transformer and 115kv circuit breaker at Rochester substation in New Hampshire. ISD July 2004	NU-04-T34 ISO approval letter sent on September 3, 2004.	NU-05-TCA-07 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$4.543	\$4.543			
25.	New England East-West Solution (NEEWS) (NGrid/NU) This Plan includes several Projects to improve New England reliability by increasing transfer limits of three critical interfaces, including Connecticut Import Limit. ISD 2011	Multiple Submissions. CT & MA. parts expected towards end of 2007.	TCA yet to be submitted. Multiple Submissions. Springfield advanced projects are expected to be submitted in fourth quarter of 2007.	4	\$1.7B (First Estimate)				
26.	Southington 4C Substation (NU) Addition of a second 47 MVA, 115/13.8-kV transformer and 2) one 115-kV Circuit Breaker/Disconnect Switches. ISD June 2004	NU-03-T17 ISO approval letter sent on September 10, 2003.	NU-05-TCA-03 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$0.942	\$0.942			
27.	Portsmouth Substation (NU) Addition of a new radial transmission line to supply Portsmouth substation and associated work at Schiller and Ocean Road substations. ISD July 2004	NU-04-T11 ISO approval letter sent on May 7, 2004.	NU-05-TCA-08 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$1.800	\$1.800			
28.	Y2SS Line Reconductor (National Grid) Reconductor Y-2SS line between Deerfield 5 and Harriman substations (NEP). ISD December 2005	NEP-05-T02 ISO approval letter sent on February 8, 2005.	NEP-05-TCA-03 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$0.850	\$0.850			
29.	Beebe River & Monadnock substation breaker replacement (PSNH/NU) Replace breakers at Beebe River (2 each) and Monadnock (1 each) substations. ISD December 2004	Not required	NU-05-TCA-05 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$1.043	\$0.780		\$0.261	
30.	CL&P system breaker replacement (NU) Replace obsolete and overstressed breakers at various substations on the CL&P system. ISD December 2004	Not required	NU-05-TCA-09 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	3	\$6.750	\$6.750			
31.	WMECO system breaker replacement (NU) Replace obsolete and overstressed breakers at various substations on the WEMCO system. ISD December 2004	Not required	NU-05-TCA-10 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$4.103	\$4.103			

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							Local as per ISO	Non PTF as per TO	Comments
32.	PSNH system breaker replacement (PSNH/NU) Replace obsolete and overstressed breakers at various substations on the PSNH system. ISD December 2004	Not required	NU-05-TCA-11 RC recommended approval on April 5, 2005. ISO determination letter sent on June 8, 2005.	2	\$1.002	\$1.002			
33.	Farmington (1C) Substation upgrade (NU) Addition of two 115 kV breakers and a 115/23 kV transformer at the Farmington Substation. ISD June 2005	NU-04-T17 ISO approval letter sent on November 8, 2004.	NU-05-TCA-14 RC recommended approval on June 15, 2005. ISO determination letter sent on October 11, 2005.	2	\$1.131	\$1.131			
34.	1750 line breaker addition at Cos Cob substations (NU) Install a line breaker and upgrade terminal equipment on the 1750 line at Cos Cob RR35 and Cos Cob 11R substations, respectively. ISD June 2005	NU-04-T13 ISO approval letter sent on May 7, 2004. NU-05-T10 ISO approval letter sent on June 24, 2005.	NU-05-TCA-13 RC recommended approval on June 15, 2005. ISO determination letter sent on October 11, 2005.	2	\$0.996	\$0.996			
35.	Fore River Substation (CMP) Construct a new 115 kV to 12.47 kV Fore River Distribution Substation on the Portland peninsula. ISD July 2005	CMP-04-T02 ISO approval letter sent on November 8, 2004.	CMP-05-TCA-01 RC recommended approval on August 30, 2005. ISO determination letter sent on October 25, 2005.	2	\$11.300	\$4.200		\$7.100	
36.	Three Rivers Substation (PSNH/NU) Addition of a 115-kV circuit breaker to the PSNH Three Rivers 115 kV Substation, located in Eliot, ME. ISD May 2004	NU-05-T11 RC recommended approval on July 15, 2005. ISO approval letter sent on July 25, 2005.	NU-05-TCA-15 RC recommended approval on August 30, 2005. ISO determination letter sent on October 25, 2005.	2	\$0.582	\$0.582			
37.	Dover Substation (NSTAR) Elimination of the 115 kV transmission line "bypass" and upgrade of the 115 kV bus, breakers and disconnects at Dover Station 456 located in West Walpole, MA. ISD December 2005	NSTAR-05-T03 ISO approval letter sent on March 21, 2005.	NSTAR-05-TCA-02 RC recommended approval on July 15, 2005. ISO determination letter sent on October 11, 2005.	2	\$2.940	\$0.599		\$2.341	
37a.	Dover Substation (NSTAR) Elimination of the 115 kV transmission line "bypass" and upgrade of the 115 kV bus, breakers and disconnects at Dover Station 456 located in West Walpole, MA. ISD December 2005	Not required	NSTAR-05-TCA-02 Rev 1 RC recommended approval on November 1, 2006. ISO determination letter sent on January 22, 2007.	2	\$1.000 New total including Rev 1 \$3.94M	\$0.438 New total including Rev 1 \$1.037M		\$0.562	New total including Rev 1 \$2.903M
38.	Bennington Substation & Y-25 Line Upgrades (VELCO) Replace the Bennington 20MVA 115/69 kV transformer and reconductor 10 miles of the Y-25 line from the Bennington SS to the NGRID. ISD Summer 2006	VELCO-05-T01 ISO approval letter sent on February 8, 2005.	VELCO-05-TCA-01 RC recommended approval on July 28, 2005. ISO determination letter sent on December 30, 2005.	2	\$2.450	\$2.450			
39.	Manchester-Hopewell 1767 Line Upgrade (NU) Reconductor the 115 kV Manchester to Hopewell transmission Line. ISD May 2005 (original 15.5 application date). Revised ISD April 2007	NU-03-T15 NEPOOL approved July 2003.	NU-03-155-T15 RC recommended approval on November 13, 2003. ISO determination letter sent on August 23, 2003. Revised TCA submitted - NU-03-155-T15 Rev.1 RC recommended approval on May 15, 2007. ISO determination letter sent on June 22, 2007.	2	\$5.000 New total including 2003 TCA & Rev 1 \$8.00M	\$5.000 New total including 2003 TCA & Rev 1 \$8.00M			
40.	Shunock Substation (NU) Build a new 115 kV substation, Shunock, in N. Stonington, CT. ISD May 2005	NU-02-T04 Rev. A NEPOOL approved May 7, 2004.	NU-05-TCA-12 (replaces previously submitted application NU-02-155-T04, which was approved on June 11, 2002) RC approved October 4, 2005. ISO determination letter sent on December 30, 2005.	2	\$3.190	\$3.190 Original application indicated \$1.96M			Original application indicated \$2.26M and \$0.00M in the revised application

*NECPUC to be involved in category 4 TCA apps that require siting.

Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
41.	2nd Nantucket Interconnection Project (NSTAR) Expand the Barnstable SS, install a redundant bus tie breaker, install shunt capacitors at Falmouth SS& Orleans SS, install type III SPS at Barnstable SS, and install new 115 V OH line from Barnstable SS to Merchants Way SS. ISD December 2005	NSTAR-050T02 and NSTAR-05-X01 ISO approval letter sent in March 2005.	NSTAR-05-TCA-03 RC recommended approval on October 4, 2005. ISO determination letter sent on December 30, 2005.	2	\$6.736	\$4.362		\$2.374	
42.	Portland SS Upgrade (NU) Install a 115 kV tie breaker at the Portland 21H Substation, Portland CT. ISD May 2006	NU-04-T39 ISO approval letter sent on January 28, 2005.	NU-05-TCA-16 RC recommended approval on October 4, 2005. ISO determination letter sent on October 25, 2005.	2	\$1.370	\$1.370			
43.	364 Line Terminal Upgrades at Haddam Neck & Montville SS (NU) Upgrade the 364 line terminals at Haddam Neck and Montville substations to match the full conductor ratings. ISD May 2005	NU-02-T17 NEPOOL approved August 12, 2002.	NU-05-TCA-17 RC recommended approval on October 4, 2005. ISO determination letter sent on December 30, 2005.	2	\$1.520	\$1.520			
44.	Shaw Hill SS Upgrades (NU) Install a 115 kV breaker and relaying work at the Shaws Hill and Frost Bridge Substations. ISD February 2006	NU-04-T33 NEPOOL approved September 3, 2004.	NU-05-TCA-18 RC recommended approval November 1, 2005. ISO determination letter sent on December 30, 2005.	2	\$0.970	\$0.970			
45.	Branford Capacitor Bank (NU) Install a 115-kV 37.8 MVAR capacitor bank at CL&P's Branford 11J substation in Branford, CT. ISD May 2006	NU-03-T14 NEPOOL approved July 2003.	NU-03-155-T14 Rev 1 RC recommended approval on December 15, 2005. ISO determination letter sent on December 30, 2005.	2	\$1.200	\$1.200			
46.	CL&P Breaker Replacements (NU) Various Substations. ISD November 2005	Not required	NU-05-TCA-20 RC recommended approval on January 17, 2006. ISO determination letter sent on March 6, 2006.	3	\$10.756	\$10.756			
47.	PSNH Breaker Replacements (NU) Various Substations. ISD November 2005	Not required	NU-05-TCA-21 RC recommended approval on January 17, 2006. ISO determination letter sent on March 6, 2006.	2	\$1.942	\$1.942			
48.	WEMELCO Breaker Replacements (NU) Various Substations. ISD November 2005	Not required	NU-05-TCA-22 RC recommended approval on January 17, 2006. ISO determination letter sent on March 6, 2006.	2	\$3.569	\$3.569			
49.	362 Line Terminal Upgrades (NU) Upgrade Terminals at Haddam Neck 14B and Southington 4C Substations. ISD December 2006	NU-05-T51 Approved November 1, 2005.	NU-05-TCA-23 RC recommended approval on November 1, 2005. ISO determination letter sent on December 20, 2005.	2	\$1.890	\$1.890			
50.	Tioga Power Project (NU) New 115/34.5-kV S/S in Bedford NH. Two new 115-kV lines from North Merrimack to Bedford Road & Huse Road. Rebuild 1158 line from Huse Road s/s to Scobie s/s. ISD July 2005 except for the Huse Road to Scobie line. This line will be placed in service in the summer of 2006.	NU-05-T04 Approved June 24, 2005. ISO approval sent on December 27, 2005.	NU-05-TCA-25 RC recommended approval on February 14, 2006. ISO determination letter sent on March 6, 2006.	3	\$14.399	\$14.399			

*NECPUC to be involved in category 4 TCA apps that require siting.

Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
51.	Green Hill S/S Upgrades (NU) Install a new 115kV circuit breaker and relaying work at Green Hill substation. ISD June 2006	NU-05-T21 Approved November 8, 2005. ISO approval letter sent on November 8, 2005.	NU-06-TCA-01 RC recommended approval on April 4, 2006. ISO determination letter sent on April 24, 2006.	2	\$1.308	\$1.308			
51a.	Green Hill S/S Upgrades (NU) Install a new 115kV circuit breaker and relaying work at Green Hill substation. ISD June 2006	Not required	NU-06-TCA-01 Rev 1 Revised due to increase of actual costs higher than estimated costs by 10%. RC recommended approval on July 10, 2007.	1	\$0.637 New total including Rev 1 \$1.945M	\$0.637			
52.	Pleasant 16B and Woodland 17G 115 kV Capacitors (NU) Install at each substation: Two (2) 14.4 MVAR 115 kV Capacitor Banks; One (1) 115 kV circuit breaker; Two (2) 115 kV circuit switchers, one for each capacitor bank; Two (2) current-limiting reactors, one in series with each capacitor bank; Surge Arresters; The associated protection, controls, SCADA, and other equipment. ISD for Pleasant S/S: 07/01/06 and for Woodland S/S: 06/01/06	NU-05-T14 ISO approval letter sent on July 25, 2005.	NU-06-TCA-03 RC recommended approval on April 4, 2006. ISO determination letter sent on April 24, 2006.	3	\$9.350	\$9.350			
53.	Stepstone S/S Upgrades (NU) Install a new 115kV circuit breaker and relaying work at the new Stepstone substation. ISD June 2007	NU-05-T20 ISO approval letter sent on November 8, 2005.	NU-06-TCA-02 RC recommended approval on April 4, 2006. ISO determination letter sent on April 24, 2006.	2	\$4.466	\$4.466			
54.	Deerfield S/S Upgrades (NU) Install a new 345kV circuit breaker at the Deerfield substation. ISD June 2006	Not required	NU-06-TCA-05 RC recommended approval on May 2, 2006. ISO determination letter sent on June 2, 2006.	2	\$1.700	\$1.700			
55.	Dooley S/S Upgrades (NU) Install a new 115kV circuit breaker and relaying work at Dooley 30K substation. ISD June 2006	NU-06-T13 ISO approval letter sent on May 10, 2006.	NU-06-TCA-06 RC recommended approval on May 2, 2006. ISO determination letter sent on June 2, 2006.	2	\$0.895	\$0.895			
56.	South End S/S Upgrades (NU) Replacement of Existing 115kV Breaker 6T and Addition of a 3rd 115kV Breaker Back to Back with 6T at South End 1G. ISD December 2006	NU-06-T02 ISO approval letter sent on February 17, 2006	NU-06-TCA-07 RC recommended approval on June 7, 2006. ISO determination letter sent on July 12, 2006.	2	\$0.799	\$0.799			
57.	Colburn Substation (NSTAR) Construction of new 115/14 kV Colburn substation. The station will connect to 115 kV cables 110-510 and 110-511. ISD June 2005 / June 2007	NSTAR-04-T07 ISO approval letter sent on December 13, 2004.	NSTAR-06-TCA-01 RC recommended approval on June 7, 2006. ISO determination letter sent on July 12, 2006.	3	\$28.700	\$6.500		\$22.200	
58.	N. Cambridge Substation (NSTAR) Installation of a new 345 kV, 160 MVAR regulating shunt reactor at North Cambridge substation. ISD June 2005 / June 2007	NSTAR-05-T05 ISO approval letter sent on May 3, 2005.	NSTAR-06-TCA-02 RC recommended approval on June 7, 2006. ISO determination letter sent on July 12, 2006.	2	\$4.300	\$4.300			

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
59.	Norwalk Harbor Control Relocation (NU) Removal of the existing protection and control equipment from NRG's Norwalk Harbor generating station control house to a new control house that will house the Long Island Replacement Cable transmission equipment and the equipment removed NRG's control house. ISD December 2007	Not required	NU-06-TCA-04 At the July 19, 2006 RC meeting there were many questions specifically whether this project was triggered by a transmission need, or whether these were changes NU should have made before/during its sale of this plant to NRG. NU requested that the RC refrain from voting at this time and NU would be coming back to the RC with additional information. NU sent a new version of the TCA application to the RC on September 26, 2006, which addresses all questions raised at the July 19, 2006 meeting. RC recommended approval on November 1, 2006. ISO determination letter sent on January 22, 2007.	2	\$4.857	\$4.857			
60.	Wilton 35A Substation (NU) Construct a 115/13.8-kV substation 1 Wilton, CT. ISD December 2007	NU-05-T04 ISO approval letter sent on June 24, 2005.	NU-06-TCA-09 RC recommended approval on August 29, 2006. ISO determination letter sent on October 20, 2006.	2	\$3.828	\$3.828			
61.	Northeast Connecticut Reliability Project (Killingly) (NU) Construct the new 345/115-kV substation Killingly 2G, in Killingly, CT. Sectionalize the 345-kV line #347, terminating the ends at the Killingly substation. Install two 345-kV and eight 115-kV circuit breakers and disconnect switches at Killingly. Install three single phase 345/115 kV, 200 MVA autotransformers at Killingly and tap them via a 345-kV circuit breaker into the Killingly-Lake Road 345-kV line. Install a new 345-kV circuit breaker at the Card 11F substation.	NU-04-T20 Rev 1 ISO approval letter sent on January 28, 2005. NU-04-T21 ISO approval letter sent on August 4, 2004.	NU-06-TCA-10 At the October 3, 2006 RC meeting, NU requested that the application be pulled off of the agenda. NU re-submitted its application on October 26, 2006. The new application includes new, lower estimated costs, that reflect actual costs tracked to date. RC recommended approval on December 06, 2006. ISO determination letter sent on February 12, 2007.	4	\$28.902	\$28.635		\$0.267	
62.	Auburn St. 345kV breaker addition (National Grid) Install a 345kV gas circuit breaker and associated equipment on line #335 at Auburn St. substation. Replace the existing 345kV gas circuit breaker on line #342 at Auburn St. substation. ISD Summer 2007	NEP-06-T09 ISO approval letter sent on October 24, 2006.	NEP-06-TCA-02 RC recommended approval on October 3, 2006. ISO determination letter sent on October 18, 2006.	2	\$1.580	\$1.580			
63.	Scobie 115-kV Substation Reconfiguration (NU) Upgrade the 115-kV Scobie substation to a breaker-and-half configuration and comply with NPCC criteria for classification as part of the Bulk Power System. ISD June 2006	NU-02-T06 ISO approval letter sent on April 9, 2002.	NU-02-155-T06 RC recommended approval on May 7, 2002. NU-02-155-T06 Rev 1 The revised applicationis for \$11.261M but withdrawn by NU after submitted on 10/15/07.	3	\$9.500	\$9.500			
64.	CL&P circuit breaker replacements (NU) Circuit breaker replacements at the Millstone (345-kV), Manchester (115-kV), Newington (115-kV) and West Side (115-kV) substations. ISD December 2006	Not required	NU-06-TCA-15 RC recommended approval on December 06, 2006. ISO determination letter sent on January 26, 2007.	2	\$3.894	\$3.894			
65.	PSNH circuit breaker replacements (NU) Circuit breaker replacements at the Deerfield (345-kV) and Pemigewassett (115-kV) substations. ISD December 2006	Not required	NU-06-TCA-16 RC recommended approval on December 06, 2006. ISO determination letter sent on January 26, 2007.	2	\$0.917	\$0.917			
66.	WMECO circuit breaker replacements (NU) Circuit breaker replacements at the Berkshire (115-kV) substation. ISD December 2006	Not required	NU-06-TCA-17 REPLACEMENT IN KIND RC recommended approval on December 06, 2006. No action is required from the ISO.		\$0.250	\$0.250			
67.	Unused								

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
68.	Lexington 345 KV Reactor Project (NSTAR) Installation of a new 345 kV, 160 MVAR regulating shunt reactor at Lexington substation. ISD May 2006	NSTAR-05-T09 ISO approval letter sent on December 15, 2005.	NSTAR-06-TCA-03 RC recommended approval on December 06, 2006. ISO determination letter sent on January 26, 2007.	2	\$3.800	\$3.800			
69.	Sudbury 115 kV Capacitor Bank (NSTAR) Installation of a new 118 kV, 52.5 MVAR capacitor bank at Sudbury substation. ISD June 2006	NSTAR-06-T06 ISO approval letter sent on May 10, 2006.	NSTAR-06-TCA-07 RC recommended approval on December 06, 2006. ISO determination letter sent on January 26, 2007.	2	\$1.250	\$1.250			
70.	Long Island Replacement Cable ("LIRC") (NU) Install three new three-phase 138-kV cables between the Norwalk Harbor Substation in Norwalk, Connecticut and the Northport Substation in Northport, New York and remove the existing seven single-phase cables. ISD December 2008	NU-02-T26 ISO approval letter sent on December 17, 2002.	NU-07-TCA-01 A draft application was sent to the ISO for review on November 12, 2006. The ISO emailed comments back to NU on January 8, 2007. NU sent its final application to the RC on January 29, 2007. RC recommended approval on February 13, 2007. ISO sent an additional information request letter on March 13, 2007. NU responded on April 11, 2007. The ISO sent a second request on April 20, 2007 for which NU replied on May 7, 2007. ISO determination letter sent on June 19, 2007.	4	\$71.744	\$71.744			
71.	Mystic Station 115 kV Breaker Replacement Project (NSTAR) Replacement of nineteen 115 kV, circuit breakers at Mystic Station. ISD December 2008 (three in 2006, three in 2007 and thirteen in 2008)	Not required	NSTAR-07-TCA-01 (This was originally TCA application NSTAR-06-TCA-06, which was withdrawn on February 8, 2007). REPLACEMENT IN KIND This application replaced the NSTAR-06-TCA-06 application. According to the most recent version of PP-4, effective January 5, 2007, this TCA does not require action from the RC or the ISO. NSTAR-07-TCA-01 was presented at the RC for information only on February 13, 2007. No action required but ISO sent letter on March 6, 2007.	2	\$4.700	\$4.700			
72.	Brentwood Substation Modifications (NU) Add new 115 kV Breaker & switches to connect new Brentwood substation to the R193 line. ISD May 2007	NU-06-T03 ISO approval letter sent on February 17, 2006.	NU-07-TCA-04 RC recommended approval on April 4, 2007. ISO determination letter sent on May 23, 2007.	2	\$2.107	\$2.107			
73.	New Oxford Substation (NU) Construction of new 115/13.8 kV Substation in 26 N. Oxford, CT. ISD May 2008	NU-05-T52 ISO approval letter sent on January 26, 2006.	NU-07-TCA-03 RC recommended approval on May 15, 2007. ISO determination letter sent on June 21, 2007.	3	\$5.710	\$5.710			
74.	East Avenue Loop Project (VELCO) New and replacement of existing 115 kV lines. Expansion of East Avenue substation to 115 kV ring bus with 3 new local distribution transformers. ISD August 2010	VELCO-06-T03 & VELCO-06-T05 ISO approval letter sent on October 24, 2006.	VELCO-07-TCA-01 RC recommended approval on April 4, 2007. ISO determination letter sent on May 23, 2007.	4	\$40.024	\$25.142	\$14.882		
75.	Mystic to Chelsea Line Upgrade (NSTAR) Thermal Upgrade of 115 kV Line 488-518/P-168(Mystic to Chelsea) and Chelsea station upgrade. ISD January 2006	NSTAR-05-T06 ISO approval letter sent on August 30, 2005.	NSTAR-07-TCA-02 RC recommended approval on May 15, 2007. ISO determination letter sent on June 21, 2007.	2	\$1.480	\$1.480			
76.	Chelsea Substation Upgrade (NSTAR) Construct a six breaker 115 kV ring bus at Chelsea substation. ISD November 2006	NSTAR-06-T01 ISO approval letter sent on May 2, 2006.	NSTAR-07-TCA-03 RC recommended approval on May 15, 2007. ISO determination letter sent on June 22, 2007.	2	\$3.700	\$3.700			

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
77.	Oak Hill Substation Upgrade (NU) Add two 115kV Breakers and associated switches to sectionalize the P145 line at Oak Hill substation. ISD June 2007	NU-06-T18 ISO approval letter sent on September 11, 2006.	NU-07-TCA-09 RC recommended approval on May 15, 2007. ISO determination letter sent on June 22, 2007.	2	\$2.709	\$2.709			
78.	Weare Substation Reliability Project (NU) Add two 115 kV breakers at Weare substation. Additional remote terminal works at Greggs substation and 115 kV 28.8 MVar Capacitor bank at Jackman substation ISD June 2008	NU-07-T02 ISO approval letter sent on April 11, 2007.	NU-07-TCA-12 RC recommended approval on May 15, 2007. The project cost estimates were higher compared to other NU projects in NH. ISO requested additional information and breakdown of costs by letter sent on June 19, 2007. NU responded on July 16, 2007, stating the cost of this project is comparable to current NU projects in the PSNH region. Second ISO additional information request letter sent on August 24, 2007 and response received on September 17, 2007. ISO determination letter sent on February 7, 2008.	3	\$11.633	\$11.633 Requested \$11.633M			
79.	Millstone Substation SPS Upgrade (NU) Replacement of the Special Protection System (SPS) Sever Line Outage Detection (SLOD) with new microprocessor based system. ISD June 2007	NU-07-X01 ISO approval letter sent on February 13, 2007.	NU-07-TCA-08 RC recommended approval on July 10, 2007. ISO determination letter sent on October 3, 2007.	2	\$1.500	\$1.500			
80.	Timber Swamp 345/34.5 kV SS Expansion (NU) Add four 345 kV breaker ring bus, additional transformation and remote relay changes at Newington & Seabrook Substations. ISD June 2007	NU-06-T19 ISO approval letter sent on August 31, 2006.	NU-07-TCA-10 RC recommended approval on July 10, 2007. ISO determination letter sent on September 27, 2007.	3	\$9.007	\$9.007			
81.	Ludlow Substation 345 kV Breaker Addition (NU) Adding one 345 kV breaker 6T to reduce severity of stuck breaker contingency of breaker 5T, with associated protection & SCADA. ISD May 2008	NU-07-T05 ISO approval letter sent on June 15, 2007.	NU-07-TCA-15 RC recommended approval on August 8, 2007. ISO determination letter sent on September 27, 2007.	2	\$1.644	\$1.644			
82.	Barbor Hill Substation Reliability (NU) 600MVA 345/115kV Autotransformer & twelve 115kV Breaker ring bus in breaker and a half configuration to reterminate lines 1100,1200, 1606 and 1724. ISD June 30, 2008	NU-06-T15 ISO approval letter sent on April 4, 2007.	NU-07-TCA-07 RC recommended approval on September 19, 2007. ISO determination letter sent on February 7, 2008.	4	\$48.940	\$48.940 Requested \$44.153M		\$4.787	
83.	Lamoille County Transmission Expansion (VELCO) 115 kV Breaker addition at Middlesex, 115 kV Transmission lines to Duxbury, Middlesex and Stowe substations with SCADA controls. ISD December 2007	VELCO-07-T01 VELCO-07-T02 VELCO-07-T04 ISO approval letter sent on August 16, 2007.	VELCO-07-TCA-02 RC recommended approval on September 19, 2007. ISO determination letter sent on February 7, 2008.	2	\$41.905	\$41.905 Requested \$4.857M		\$37.048	

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Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 3/26/08

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		
							Local as per ISO	Non PTF as per TO	Comments
84.	Rood Avenue Substation (NU) New 115 kV Bus with tie breaker for looping 1751 line and to install a 46.7 MVA two winding transformer in the new Rood Avenue substation. Also breaker and half bay with relay upgrade and wave traps at Manchester. ISD June 2009	NU-07-T12 RC approval on September 19, 2007	NU-07-TCA-17 RC recommended approval on September 19, 2007. ISO determination letter sent on February 7, 2008.	3	\$9.162	\$9.162 Requested \$9.162M			
85.	Kimball Road Substation (CMP) Installation of two 30 MVAR capacitor banks at Kimball Road Substation in Harrison, ME, and related work. ISD Dec 2008 / Dec 2009	CMP-05-T01 Rev. 2 RC recommended approval on November 7, 2007	CMP-07-TCA-01 RC recommended approval on November 7, 2007 ISO determination letter complete but yet to be sent.	2	\$5.367	Requested \$2.441M		\$2.926	
86.	Norwalk-Glenbrook Cables (NU) Install two new 115-kV cables from Norwalk to Glenbrook (accommodate 345 kV class cable). Expand and upgrade to BPS and remove SPS at Glenbrook 115 kV substation. Replace two 115-kV circuit breakers at Cos Cob. ISD 2008	NU-05-T09 Approved August 3, 2005	NU-07-TCA-24 Initial presentation to the RC in January 2008. ISO additional information request letter sent on 2January 29, 2008 and responses received March 10, 2008. RC recommended approved of the full \$234M on March 18, 2008. ISO determination letter being drafted.	4	\$234.203 \$190M (Initial Estimate)	Requested \$234.203M			
87.	Mammoth Road 2nd Transformer (NU) Split the R187 line between Watts Brook SS & Scobie SS to install two breakers and accommodate a second autotransformer. ISD May 2008	NU-07-T11 RC recommended approval on July 22, 2007	NU-07-TCA-19 RC recommended approval on December 19, 2007 ISO determination letter being drafted	2	\$4.522	Requested \$4.522M			
88.	Western MA Reinforcements 2007-2017 (National Grid) ISD June 2009 - 2011	NEP-07-TT14 through NEP-07-T42 RC recommended approval on November 7, 2007	NEP-07-TCA-02 and NEP-07-TCA-02 Rev. 1 RC initial review at the November 7, 2007 meeting. Application updated as the result of this meeting and TCA resubmitted. RC recommended approval on December 19, 2007 meeting. ISO determination letter being drafted.	4	\$125.250	Requested \$108.747M		\$16.503	
89.	MPRP (CMP)		Application yet to be submitted.	4	\$992.29M (Initial Est. dated 10/25/07, including contingency)				
90.	Berkshire 2nd Autotransformer (NU) Installation of a second 450 MVA 345/115 kV autotransformer. ISD June 2008	NU-07-T14 (level 1)	NU-07-TCA-22 Withdrawn 3-12-2008	3	\$9.156	Requested \$9.156M			

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