

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template	
							Local as per ISO	Non PTF as per TO	Comments		
1.	<b>345 kV Reliability Project (NSTAR)</b> 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. <b>Phase 1 ISD July 2006</b> <b>Phase 2 ISD 2008</b>	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.	<b>345 kV Reliability Project (NSTAR)</b> 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. <b>Phase 1 ISD July 2007</b> <b>Phase 2 ISD 2009</b>	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 I only	\$0.231			
1c.	<b>345 kV Reliability Project (NSTAR)</b> 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. <b>Phase 1 ISD July 2007</b> <b>Phase 2 ISD 2009</b>	Not required	NSTAR-04-TCA-01 Rev 3  NSTAR submitted a revised TCA application on April 9, 2008 requesting an additional \$42.1M in PTF cost associated with phase 2 of the project. NSTAR made a presentation at the April 15, 2008 and June 17, 2008 RC meetings.  RC did not recommend approval by the ISO with 52.09% in favor, 17.36% opposed and 19 abstentions on the June 17, 2008 meeting.  ISO-NE sent an additional information request letter on June 30, 2008, NSTAR responded August 5, 2008  ISO determination letter sent October 27, 2008	4	\$42.100	\$42.100	Requested \$42.1 M additional costs for Phase 2 only				
2.	<b>Northeast Interconnect Project (BHE)</b> Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. <b>ISD December 2007</b>	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.	<b>Northeast Reliability Interconnect Project (BHE)</b> Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. <b>ISD December 2007</b>	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	\$19.500	New total including Rev 1 \$109.9M			Original Non PTF costs submitted = \$48M.	

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

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								Local as per ISO	Non PTF as per TO	Comments		
2b.	<b>Northeast Reliability Interconnect Project (BHE)</b> Construction of a 345 kV line from Orrington, ME to Pt. Lepreau substation in New Brunswick. <b>ISD December 2007</b>	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.  ISO determination letter sent on September 28, 2007	4	\$34.100	New total including Rev 2 \$144M	\$34.100			Original Non PTF costs submitted = \$51M.		
3.	<b>Phase I SWCT (NU)</b> 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. <b>ISD December 2006</b>	NU-04-T01 through NU-04-T08 and UI-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	
3a.	<b>Breaker Replacement/Uprate at Pequonnock Substation (UI)</b> Replacement of 15 existing gas circuit breakers at the 115 kV Pequonnock Substation. <b>ISD July 2005</b>	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.	<b>Phase II SWCT (NU)</b> New 22.2 mile UG 345 kV transmission line between East Devon Substation and Norwalk Substation. 46.9 mi of new 345 kV OH transmission. Replacement of certain sections of existing 115 kV transmission between East Devon Substation and Beseck Switching Station <b>ISD 2009</b>	NU-05-T23 through NU-05-T44 UI-05-T02, T03, T04 and T05  RC recommend approval at their December '05 Meeting. Approved by ISO letter in January 2006.	NU-08-TCA-01/UI-08-TCA-01  TCA application submitted on April 9, 2008. A brief presentation was made on May 21, 2008 to the RC. A Stakeholder meeting was held on June 10, 2008. Next presentation anticipated at the September 2008 RC meeting.  An additional information request was sent to NU/UIO on September 3, 2008.  A second additional information letter was sent on September 12, 2008.  Responses on December 17, 2008 to additional information request dated June 10/12, 2008.  A third additional information request sent to NU/UI on December 17, 2008. Response received April 6, 2009 from NU/UI  NU/UI presented in front of PAC on April 21, 2009 discussing project cost with new CEWG templates.  A fourth additional information request was sent to NU/UI on June 1, 2009.  A fifth additional information request was sent to NU/UI on June 15, 2009 focusing on the feasibility of another alternative, Alternative C that is a combination of the preferred route and portions of alternatives A and B. Responses received on August 4, 2009.	4	\$1,275		\$1,205.840	Requested \$1,274,571,160	\$68.73	\$37.262	ISO- NE supported the use of Alternate C	

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**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template	
							Local as per ISO	Non PTF as per TO	Comments		
			<p>NU/UI made a presentation and requested a vote on the TCA Application at the August 17, 2009 Meeting. The motion was amended and the resulting motion failed. The RC did not recommend approval to the ISO with 51.25% in opposed, 17.36% opposed and 19 abstentions on the June 17, 2008 meeting.</p> <p>A sixth additional information request was sent to NU/UI on December 27, 2009. The letter focused on actual costs for the project and reflecting the project costs and alternative costs in 2008 dollars. NU/UI responded to the request on February 24, 2010 and provided a revised response on March 23, 2010 to fix a mathematical error.</p> <p>ISO draft determination posted on November 15, 2010 for 30 day stakeholder comment period.</p> <p><b>ISO determination letter posted on January 5, 2011</b></p>								
5.	<p><b>Northwest Vermont Reliability Project (VELCO)</b></p> <p>Increase reliability by improving transmission in the Burlington area. Four parts to the project:</p> <p>(i) New Haven 345 kV S/S <b>ISD May 2006</b></p> <p>(ii) West Rutland - New Haven 345 kV line <b>ISD May 2006</b></p> <p>(iii) New Haven - Queen City 115 kV line <b>ISD March 2007</b></p> <p>(iv) Granite STATCOM/Upgrades <b>ISD October 2007</b></p>	<p>January 2003 ISO approved (pre-100th amendments)</p> <p>VELCO must file new application to reflect material modifications ordered by VT PSB.</p> <p>Revised I.3.9 applications (level I) have started to be submitted. The first set were approved at the December 15, 2005 RC meeting.</p>	<p>NEPOOL PC approved (pre-100th amendment) as four applications: VELCO-03-155-T01 thru VELCO-03-155-T04.</p> <p>TCA Application received April 14, 2008. Presentations made to the RC on March 18, 2008, April 14, 2008 and June 17, 2008 regarding cost overruns. ISO additional information request letter sent May 16, 2008 and awaiting response. A Stakeholder meeting was held on May 30, 2008.</p> <p>RC recommended approval on June 17, 2008</p> <p>A second additional information request letter sent on July 28, 2008.</p> <p>ISO determination letter sent October 23, 2008</p>	4	<p>\$251.70</p> <p>Original 15.5 Amount approved \$153.7M and as part of Rev. 1 increase of \$134.6M for a new total of \$288.32M.</p> <p>\$228M (Vermont Public Service Board Letter dated 6/2/07. This amount includes a 15% contingency)</p> <p>\$198.0 (updated 7/8/05 via press release)</p> <p>Original Est. \$156.0 (RTEP04)</p>	\$106.700	<p>Original 15.5 Amount approved \$145.3M and as part of Rev. 1 requesting \$106.7 for a total of \$251.7M</p>	\$25.420	Original 15.5 Amount \$8.4M		
6.	<p><b>UI Highway Relocation Project (UI) "Q-Bridge"</b></p> <p>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. <b>ISD February 2005</b></p>	<p>Accepted as a Level I, Information Only by NEPOOL RC on October 5, 2004.</p> <p>ISO approval letter sent on October 8, 2004.</p>	<p>UI-04-TCA-01</p> <p>REPLACEMENT IN KIND</p> <p>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.</p>	2	\$10.100	\$1.124	<p>Original request \$1.401M</p>	\$0.276	\$8.686	CT DOT to pay these costs as per revised TCA	

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**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
7.	<b>Glenbrook STATCOM (NU) Three Projects</b> <b>(i) STATCOMs (2)</b> <b>(ii) Capacitor Banks (3)</b> <b>(iii) 1977 Line Tap</b>  (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 <b>ISD June 2004</b>	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	\$41.100  (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.	<b>Raynham 115 kV Substation in Raynham, MA (National Grid)</b>  (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. <b>ISD May 2006</b>	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.	<b>Raynham 115 kV Substation in Raynham, MA (National Grid)</b>  (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. <b>ISD May 2006</b> (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				
9.	<b>Upgrade 9 miles of 115 kV overhead line, X-176 from Palmer, MA to NU border (National Grid)</b>  Re-conductor 9 miles of the 115 kV line, X-176 and upgrade terminal equipment. <b>ISD Spring 2005</b>	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.	<b>SWRI Reliability Project (National Grid)</b>  Extend the 115 kV line L190 from Davisville/Old Baptist Rd tap to the West Kingston Substation, and install terminal equipment. <b>ISD June 2007</b>	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.	<b>SWRI Reliability Project (National Grid)</b>  Reconductoring of Lines 1870N and 1870 at the West Kingston No. 63 substation and Wood River substation. <b>ISD June 2008</b>	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.	<b>SWRI Reliability Project (National Grid)</b>  Extend the 115 kV line L190 from Davisville/Old Baptist Rd tap to the West Kingston Substation, and install terminal equipment. <b>ISD June 2008</b>	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.	<b>SWRI Reliability Project (National Grid)</b>  Reconductoring of Lines 1870N and 1870 at the West Kingston No. 63 substation and Wood River substation. <b>ISD June 2008</b>  NECPUC to be involved in category 4 5 TCA apps that require siting.	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				

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
11.	<b>North Shore Upgrades (National Grid)</b>  (i) Ward Hill substation <b>ISD June 2006</b> (ii) Salem Harbor substation <b>ISD December 2005</b> (iii) Reconductoring the B154 & C155 115 kV Lines <b>ISD December 2005</b>	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		
12.	<b>Monadnock Plan (NU)</b>  Provides transmission upgrades over a three-state area comprising southeastern VT, southwestern NH and north-central MA. <b>ISD 2009</b>	NU-06-T06 through NU-06-T11, NEP-06-T03, NEP-06-T04, VELCO-06-T01, and VELCO-06-T02.  Approved March 14, 2006	NU-09-TCA-02 /NEP-09-TCA-03  TCA Application submitted on December 2, 2009  Presentation to RC on December 15, 2009 for information only. Several questions on valuation year for alternatives and cost increase from 2003. NU/NEP to prepare answers and present again in January and look for a vote on the TCA Application  RC recommended approval on January 19, 2010.  ISO determination letter sent on June 16, 2011.	4	\$104.600	\$104.600				
13.	<b>Pequonock-Seaview Cables (UI)</b>  Costs associated with maintaining the stated ratings of the 1710/1730 lines presently limited by their underwater cable sections. <b>ISD October 2004</b>	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				
14.	<b>Central Mass Reinforcement - Wachusett Project (National Grid)</b>  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. <b>ISD Fall 2006</b> (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		
14a.	<b>Central Mass Reinforcement - Wachusett Project (National Grid)</b>  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. <b>ISD Fall 2006</b> (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 REV 2  NEP submitted a revised TCA on May 27, 2009 requesting an additional \$55.052M in PTF costs associated with the project, due to increases in materials and labor.  Presentation at June 16, 2009 RC meeting for information only. Several questions were brought up regarding cost drivers and also work done on the 69 kV side.  NEP is anticipated to look for a vote at the August 2009 RC meeting  ISO Data Request sent on September 28, 2009. NEP responded on October 19, 2009  RC recommended approval on October 20, 2009  ISO determination sent on December 28, 2010	3	\$69.750	^69.75				
15.	<b>Rebuild and Reconductor Line 67 from Rebel Hill to Boggy Brook (BHE)</b>  Costs associated with reconstruction and reconductoring of 13.7 miles of BHE 115 kV transmission. <b>ISD July 2007</b>	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				

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**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

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16.	<b>Rebuild and Reconductor Line 66 from Graham to Boggy Brook (BHE)</b> Costs associated with reconstruction and reconductoring of 13 miles of BHE 115 kV transmission. <b>ISD July 2007</b>	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.	<b>Line 433-507 Relocation onto new structures Project (NSTAR)</b> Relocation of a 115 kV transmission line (Line 433-507) from a double circuit tower structure onto a set of new structures. <b>ISD June 2005</b>	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.	<b>PSNH Pine Hill 115 kV Substation (NU)</b> Addition of a second Xfmer and 115 kV Bkr to the PSNH Pine Hill 115 kV Substation. <b>ISD June 2003</b>	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.	<b>Sherman Rd Substation (National Grid)</b> Addition of a 345 kV breaker in series with existing breaker #140 at the Sherman Rd substation. <b>ISD May 2004</b>	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.	<b>E-183 Project (National Grid)</b> 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. <b>ISD May 2006</b>	NEP-05-T04 Accepted as a Level I, 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.	<b>Pleasant Substation Project (NU)</b> Addition of third transformer and two breakers at the 115 kV Pleasant Substation in Lee, MA due to increased load. <b>ISD May 2005</b>	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.	<b>Pleasant Substation Project (NU)</b> Addition of third transformer and two breakers at the 115 kV Pleasant Substation in Lee, MA due to increased load. <b>ISD September 2005</b>	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					
22.	<b>Todd Substation Project (NU)</b> Installation of 115-13.8 kV transformer and 115 kV Circuit Breaker at Todd Substation in Wolcott, CT. <b>ISD November 2004</b>	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.	<b>PSNH Chester Substation Project (PSNH/NU)</b> Addition of 2nd transformer and 115kv circuit breaker at Chester substation in New Hampshire. <b>ISD July 2004</b>	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					

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
24.	<b>PSNH Rochester Substation Project (PSNH/NU)</b> Addition of 2nd transformer and 115kv circuit breaker at Rochester substation in New Hampshire. <b>ISD July 2004</b>	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.	<b>New England East-West Solution (NEEWS) (NGrid/NU)</b> This Plan includes several Projects to improve New England reliability by increasing transfer limits of three critical interfaces, including Connecticut Import Limit. <b>ISD 2011</b>	NU-08-T11 to -T39, NU-08-T49 to -T67, NEP-08-T44 to -T57 & -T59 & -T60 ISO approval letter sent on September 24, 2008	TCA yet to be submitted. Multiple Submissions. Springfield advanced projects are expected to be submitted in fourth quarter of 2008.	4	\$1.7B (First Estimate)					
26.	<b>Southington 4C Substation (NU)</b> Addition of a second 47 MVA, 115/13.8-kV transformer and 2) one 115-kV Circuit Breaker/Disconnect Switches. <b>ISD June 2004</b>	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.	<b>Portsmouth Substation (NU)</b> Addition of a new radial transmission line to supply Portsmouth substation and associated work at Schiller and Ocean Road substations. <b>ISD July 2004</b>	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.	<b>Y25S Line Reconductor (National Grid)</b> Reconductor Y-25S line between Deerfield 5 and Harriman substations (NEP). <b>ISD December 2005</b>	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.	<b>Beebe River &amp; Monadnock substation breaker replacement (PSNH/NU)</b> Replace breakers at Beebe River (2 each) and Monadnock (1 each) substations. <b>ISD December 2004</b>	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.	<b>CL&amp;P system breaker replacement (NU)</b> Replace obsolete and overstressed breakers at various substations on the CL&P system. <b>ISD December 2004</b>	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.	<b>WMECO system breaker replacement (NU)</b> Replace obsolete and overstressed breakers at various substations on the WEMCO system. <b>ISD December 2004</b>	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				
32.	<b>PSNH system breaker replacement (PSNH/NU)</b> Replace obsolete and overstressed breakers at various substations on the PSNH system. <b>ISD December 2004</b>	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.	<b>Farmington (IC) Substation upgrade (NU)</b> Addition of two 115 kV breakers and a 115/23 kV transformer at the Farmington Substation. <b>ISD June 2005</b>	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				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
34.	<b>1750 line breaker addition at Cos Cob substations (NU)</b> Install a line breaker and upgrade terminal equipment on the 1750 line at Cos Cob RR35 and Cos Cob 11R substations, respectively. <b>ISD June 2005</b>	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.	<b>Fore River Substation (CMP)</b> Construct a new 115 kV to 12.47 kV Fore River Distribution Substation on the Portland peninsula. <b>ISD July 2005</b>	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.	<b>Three Rivers Substation (PSNH/NU)</b> Addition of a 115-kV circuit breaker to the PSNH Three Rivers 115 kV Substation, located in Eliot, ME. <b>ISD May 2004</b>	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.	<b>Dover Substation (NSTAR)</b> 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. <b>ISD December 2005</b>	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.	<b>Dover Substation (NSTAR)</b> 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. <b>ISD December 2005</b>	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.	<b>Bennington Substation &amp; Y-25 Line Upgrades (VELCO)</b> Replace the Bennington 20MVA 115/69 kV transformer and reconductor 10 miles of the Y-25 line from the Bennington SS to the NGRID. <b>ISD Summer 2006</b>	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.	<b>Manchester-Hopewell 1767 Line Upgrade (NU)</b> Reconductor the 115 kV Manchester to Hopewell transmission Line. <b>ISD May 2005 (original 15.5 application date). Revised ISD April 2007</b>	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.	<b>Shunock Substation (NU)</b> Build a new 115 kV substation, Shunock, in N. Stonington, CT. <b>ISD May 2005</b>	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	
41.	<b>2<sup>nd</sup> Nantucket Interconnection Project (NSTAR)</b> 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. <b>ISD December 2005</b>	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		

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
42.	<b>Portland SS Upgrade (NU)</b> Install a 115 kV tie breaker at the Portland 21H Substation, Portland CT. <b>ISD May 2006</b>	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.	<b>364 Line Terminal Upgrades at Haddam Neck &amp; Montville SS (NU)</b> Upgrade the 364 line terminals at Haddam Neck and Montville substations to match the full conductor ratings. <b>ISD May 2005</b>	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.	<b>Shaw Hill SS Upgrades (NU)</b> Install a 115 kV breaker and relaying work at the Shaws Hill and Frost Bridge Substations. <b>ISD February 2006</b>	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.	<b>Branford Capacitor Bank (NU)</b> Install a 115-kV 37.8 MVAR capacitor bank at CL&P's Branford 11J substation in Branford, CT. <b>ISD May 2006</b>	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.	<b>CL&amp;P Breaker Replacements (NU)</b> Various Substations. <b>ISD November 2005</b>	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.	<b>PSNH Breaker Replacements (NU)</b> Various Substations. <b>ISD November 2005</b>	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.	<b>WEMELCO Breaker Replacements (NU)</b> Various Substations. <b>ISD November 2005</b>	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.	<b>362 Line Terminal Upgrades (NU)</b> Upgrade Terminals at Haddam Neck 14B and Southington 4C Substations. <b>ISD December 2006</b>	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.	<b>Tioga Power Project (NU)</b> New 115/34.5-kV S/S in Bedford NH. Two new 115-kV lines from North Merrimack to Bedford Road & Huse Road. Rebuild I158 line from Huse Road s/s to Scobie s/s. <b>ISD July 2005 except for the Huse Road to Scobie line. This line will be placed in service in the summer of 2006.</b>	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				
51.	<b>Green Hill S/S Upgrades (NU)</b> Install a new 115kV circuit breaker and relaying work at Green Hill substation. <b>ISD June 2006</b>	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.	<b>Green Hill S/S Upgrades (NU)</b> Install a new 115kV circuit breaker and relaying work at Green Hill substation. <b>ISD June 2006</b>	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. ISO determination letter sent on September 10, 2007.	1	\$0.637 New total including Rev 1 \$1.945M	\$0.637				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
52.	<b>Pleasant 16B and Woodland 17G 115 kV Capacitors (NU)</b> 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. <b>ISD for Pleasant S/S: 07/01/06 and for Woodland S/S: 06/01/06</b>	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.	<b>Stepstone S/S Upgrades (NU)</b> Install a new 115kV circuit breaker and relaying work at the new Stepstone substation. <b>ISD June 2007</b>	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				
53a.	<b>Stepstone S/S Upgrades (NU)</b> Install a new 115kV circuit breaker and relaying work at the new Stepstone substation. <b>ISD June 2007</b>	NU-05-T20 ISO approval letter sent on November 8, 2005.	NU-06-TCA-02 Rev 1 Presentation and Vote expected at October RC Meeting RC recommended approval on October 20, 2009 ISO determination letter sent on April 13, 2010	2	\$6.080	\$6.020				
54.	<b>Deerfield S/S Upgrades (NU)</b> Install a new 345kV circuit breaker at the Deerfield substation. <b>ISD June 2006</b>	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.	<b>Dooley 30K Circuit Breaker (NU)</b> Install a new 115kV circuit breaker and relaying work at Dooley 30K substation. <b>ISD June 2006</b>	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.	<b>South End Breaker</b> Replace existing 6T circuit breaker with new SF6 breaker. Install an additional new SF6 breaker in series with the replaced 6T breaker. <b>ISD December 2006</b>	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.	<b>Colburn Substation (NSTAR)</b> Construction of new 115/14 kV Colburn substation. The station will connect to 115 kV cables 110-510 and 110-511. <b>ISD June 2005 / June 2007</b>	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.	<b>N. Cambridge Substation (NSTAR)</b> Installation of a new 345 kV, 160 MVAR regulating shunt reactor at North Cambridge substation. <b>ISD June 2005 / June 2007</b>	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				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
59.	<b>Norwalk Harbor Control Relocation (NU)</b> 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. <b>ISD December 2007</b>	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.	<b>Wilton 35A Substation (NU)</b> Construct a 115/13.8-kV substation 1 Wilton, CT. <b>ISD December 2007</b>	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.	<b>Northeast Connecticut Reliability Project (Killingly) (NU)</b> 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, in series with the existing Card 11F-2T-2 circuit breaker, in Lebanon, CT. <b>ISD December 2006</b>	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.	<b>Auburn St. 345kV breaker addition (National Grid)</b> 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. <b>ISD Summer 2007</b>	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.	<b>Scobie 115-kV Substation Reconfiguration (NU)</b> 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. <b>ISD June 2006</b>	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 applications for \$11.261M but withdrawn by NU after submitted on 10/15/07.	3	\$9.500	\$9.500				
64.	<b>CL&amp;P circuit breaker replacements (NU)</b> Circuit breaker replacements at the Millstone (345-kV), Manchester (115-kV), Newington (115-kV) and West Side (115-kV) substations. <b>ISD December 2006</b>	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.	<b>PSNH circuit breaker replacements (NU)</b> Circuit breaker replacements at the Deerfield (345-kV) and Pemigewasset (115-kV) substations. <b>ISD December 2006</b>	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				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
66.	<b>WMECO circuit breaker replacements (NU)</b> Circuit breaker replacements at the Berkshire (115-kV) substation. <b>ISD December 2006</b>	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				
68.	<b>Lexington 345 KV Reactor Project (NSTAR)</b> Installation of a new 345 kV, 160 MVAR regulating shunt reactor at Lexington substation. <b>ISD May 2006</b>	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.	<b>Sudbury 115 kV Capacitor Bank (NSTAR)</b> Installation of a new 118 kV, 52.5 MVAR capacitor bank at Sudbury substation. <b>ISD June 2006</b>	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.	<b>Long Island Replacement Cable ("LIRC") (NU)</b> 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. <b>ISD December 2008</b>	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.	<b>Mystic Station 115 kV Breaker Replacement Project (NSTAR)</b> Replacement of nineteen 115 kV, circuit breakers at Mystic Station. <b>ISD December 2008 (three in 2006, three in 2007 and thirteen in 2008)</b>	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.	<b>Brentwood Substation Modifications (NU)</b> Add new 115 kV Breaker & switches to connect new Brentwood substation to the R193 line. <b>ISD May. 2007</b>	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.	<b>New Oxford Substation (NU)</b> Construction of new 115/13.8 kV Substation in 26 N. Oxford, CT. <b>ISD May 2008</b>	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.	<b>East Avenue Loop Project (VELCO)</b> New and replacement of existing 115 kV lines. Expansion of East Avenue substation to 115 kV ring bus with 3 new local distribution transformers. <b>ISD August 2010</b>	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		

<sup>1</sup>NECPUC to be involved in category 4.5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
75.	<b>Mystic to Chelsea Line Upgrade (NSTAR)</b> Thermal Upgrade of 115 kV Line 488-518/P-168(Mystic to Chelsea) and Chelsea station upgrade. <b>ISD January 2006</b>	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.	<b>Chelsea Substation Upgrade (NSTAR)</b> Construct a six breaker 115 kV ring bus at Chelsea substation. <b>ISD November 2006</b>	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				
77.	<b>Oak Hill Substation Upgrade (NU)</b> Add two 115kV Breakers and associated switches to sectionalize the P145 line at Oak Hill substation. <b>ISD June 2007</b>	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.	<b>Weare Substation Reliability Project (NU)</b> 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 <b>ISD June 2008</b>	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				
79.	<b>Millstone Substation SPS Upgrade (NU)</b> Replacement of the Special Protection System (SPS) Sever Line Outage Detection (SLOD) with new microprocessor based system. <b>ISD June 2007</b>	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.	<b>Timber Swamp 345/34.5 kV SS Expansion (NU)</b> Add four 345 kV breaker ring bus, additional transformation and remote relay changes at Newington & Seabrook Substations. <b>ISD June 2007</b>	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.	<b>Ludlow Substation 345 kV Breaker Addition (NU)</b> Adding one 345 kV breaker 6T to reduce severity of stuck breaker contingency of breaker 5T, with associated protection & SCADA. <b>ISD May 2008</b>	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.	<b>Barbor Hill Substation Reliability (NU)</b> 600MVA 345/115kV Autotransformer & twelve 115kV Breaker ring bus in breaker and a half configuration to reterminate lines 1100,1200, 1606 and 1724. <b>ISD June 30, 2008</b>	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		\$4.787		

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
83.	<b>Lamoille County Transmission Expansion (VELCO)</b> 115 kV Breaker addition at Middlesex, 115 kV Transmission lines to Duxbury, Middlesex and Stowe substations with SCADA controls. <b>ISD December 2007</b>	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		
84.	<b>Rood Avenue Substation (NU)</b> 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. <b>ISD June 2009</b>	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.	<b>Kimball Road Substation (CMP)</b> Installation of two 30 MVAR capacitor banks at Kimball Road Substation in Harrison, ME, and related work. <b>ISD Dec 2008 / Dec 2009</b>	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 sent April 2, 2008	2	\$5.367	\$2.441		\$2.926		
86.	<b>Norwalk-Glenbrook Cables (NU)</b> 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. <b>ISD 2008</b>	NU-05-T09  Approved August 3, 2005	NU-07-TCA-24  Initial presentation to the RC on January 16, 2008. ISO sent an additional information request letter sent on January 29, 2008 and responses received March 10, 2008.  RC recommended approval on March 18, 2008  A Stakeholder meeting was held on May 30, 2008.  A second additional information request sent on May 30, 2007 and a third sent on June 17, 2008. ISO-NE is awaiting a response for both the second and third requests. A ISO determination letter yet to be sent.  A third additional information request sent on July 24, 2009 focusing on cost "adders" and also vaults and vault locations off of Route 1. ISO-NE received responses to both questions sets on September 1, 2009.  A fourth additional information request was sent on December 27, 2009 focusing on any new uses for the spare duct bank that was installed as part of the project. NU responded on February 1, 2010.  Draft determination letter posted on May 2, 2010 for 30 day comment period. Comments should be sent to TCApps@iso-ne.com  ISO Determination sent on September 14,2010	4	\$234.203	\$203.668	\$30.535		Localized costs associated with 3rd underground duct bank and cable and trench routing along Rt. 1.	
87.	<b>Mammoth Road 2nd Transformer (NU)</b> Split the R187 line between Watts Brook SS & Scobie SS to install two breakers and accommodate a second autotransformer. <b>ISD May 2008</b>	NU-07-T11  RC recommended approval on July 22, 2007	NU-07-TCA-19  RC recommended approval on December 19, 2007  ISO determination sent June 13, 2008	2	\$4.522	\$4.522				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
88.	<b>Western MA Reinforcements 2007-2017 (National Grid)</b> 115kV line upgrades, Reconductor E-2050W for 120C operation, Breaker installation at numerous substations, 69kV to 115kV conversion at East Longmeadow <b>ISD June 2009 - 2011</b>	NEP-07-T14 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 on December 4, 2007. RC recommended approval on December 19, 2007.  ISO sent an additional information request letter sent on May 12, 2008 and awaiting a response.  National Grid responded to the ISO's data request on August 14, 2008  National Grid Withdrew this TCA for consideration on November 6, 2008.	4	\$125.25	Requested \$108.747M		\$16.503		
89.	<b>unused</b>									
90.	<b>Berkshire 2nd Autotransformer (NU)</b> Installation of a second 450 MVA 345/115 kV autotransformer. <b>ISD June 2008</b>	NU-07-T14 (level 1)	NU-07-TCA-22  Withdrawn February 8,2008	3	\$9.156	Requested \$9.156M				
91.	<b>Down East Reliability Project (BHE)</b> New 115 kV transmission line tapping the L57 line near Ellsworth Substation and connecting to the Harrington Substation <b>ISD 1st Qtr 2012</b>	BHE-06-T06  ISO approval letter sent on April 2006	BHE-07-TCA-01  RC recommended approval on December 19, 2007  An additional information request letter to be sent March 27, 2008 regarding ROW.  ISO determination sent out June 13, 2008	3	\$67.900	\$66.100		\$1.800		
92.	<b>Raymond Substation Upgrades (CMP)</b> Replace two 115 kV automatic sectionalizing switches with circuit breakers. <b>ISD December 2006</b>	CMP-06-T02  ISO approval letter sent on June 19, 2006	CMP-07-TCA-02  RC recommended approval on December 19, 2007  ISO determination sent out June 13, 2008	2	\$1.523	\$1.523		\$1.932		
93.	<b>Q-169 Upgrade (NGrid)</b> Upgrade the 115 kV line between the Golden Hills and Lynn Substations with circuit breakers. <b>ISD December 2009</b>	NEP-05-T09  ISO approval letter sent on September 2, 2005	NEP-08-TCA-02 (formerly submitted as NEP-07-TCA-03)  RC recommended approval on February 14, 2008  ISO determination sent out June 13, 2008	3	\$12.390	\$12.390				
94.	<b>Q-168 Upgrade (NGrid)</b> Upgrade the NGrid portion of the Q-168 line between Mystic and Chelsea Substations with circuit breakers. <b>ISD January 2006</b>	NSTAR-05-T06 (filed by NSTAR not Ngrid)  ISO approval letter sent on August 30, 2005	NEP-08-TCA-01  RC recommended approval on February 14, 2008  ISO determination sent out June 13, 2008	2	\$1.975	\$1.975				
95.	<b>Taft's Corner Substation (VELCO)</b> Add 3 new 115kV Breakers at Taft's Corner Substation <b>ISD July 2009</b>	VELCO-07-T05  ISO approval letter sent on February 7, 2008	VELCO - 08-TCA-01  RC recommended approval on April 15, 2008  ISO determination letter sent out June 23, 2008	2	\$9.250	\$2.250		\$7.000		
96	<b>Maguire Road Project (CMP)</b> Upgrade of the Maguire Road and Buxtun Substations and associated transmission line upgrades. <b>ISD 2008</b>	CMP-06-T05 through T11 and CMP -06-T05 Rev 1  RC Recommended Approval June 2006 and December 2006 (Revision)  ISO determination letter yet to be sent.	CMP-08-TCA-01  Presentation to the RC on May 21, 2008 and June 17, 2008. RC recommended approval on June 17, 2008  Additional Information request sent on July 28, 2008.  ISO Determination letter sent out on January 9, 2009	4	\$49.500	\$49.500				

\*NECPUC to be involved in category 4 & 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
97.	<b>Rutland Substation (NEP)</b> Build new 115kV/13kV substation connected to the B-128 line <b>ISD 2009</b>	NEP-08-T13 RC Recommended Approval May 21, 2008 ISO approval letter sent on June 25, 2008	NEP-08-TCA-03 RC recommended approval on August 20, 2008 ISO determination letter sent December 17, 2008	2	\$4.750	\$2.504		\$2.246		
98.	<b>Shunt Capacitor Installations (NSTAR)</b> Install 3 new 115 kV capacitor banks and upgrade 3 existing banks <b>ISD 2007</b>	NSTAR-07-T04 RC Recommended Approval May 15,2007 ISO approval letter sent on June 5, 2007	NSTAR-08-TCA-01 RC recommended approval on August 20, 2008 ISO determination letter sent December 17, 2008	2	\$3.230	\$2.039		\$1.191		
99.	<b>Newcastle Substation Upgrades (CMP)</b> Replace 2-115 kV automatic sectionalizing switches with circuit breakers <b>ISD December 2008</b>	CMP-08-T02 RC Recommended Approval August 18, 2008 ISO approval letter sent on August 18, 2008	CMP-08-TCA-06 RC recommended approval on August 20, 2008 ISO determination letter sent December 17, 2008	2	\$3.640	\$1.310		\$1.370		
100.	<b>Scobie Substation 3rd Autotransformer (NU)</b> Install 450MVA 345/115 kV autotransformer and two 345 kV IPT circuit breakers <b>ISD November 2008</b>	NU-07-T10 RC Recommended Approval July 16, 2007 ISO approval letter sent on July 27, 2007	NU-08-TCA-02 RC recommended approval on September 16, 2008 ISO determination letter sent December 17, 2008	3	\$12.948	\$12.948				
101.	<b>Scobie-Hudson Corridor Project (NU)</b> Rebuild 11 miles of 115 kV, install 11 miles new 115 kV, add 4th bay to Scobie S/S and construct new breaker-and-a-half substation at Power St. <b>ISD May 2008</b>	NU-06-T17 RC Recommended Approval July 17, 2006 ISO approval letter sent on July 25,2006	NU-08-TCA-03 RC recommended approval on October 15, 2008 ISO Determination letter sent out on January 9, 2009	4	\$30.179	\$29.082		\$1.097		
102.	<b>Trumbull Substation (UI)</b> Construction of a new 115kV substation with 3-115kV SF6 breakers <b>ISD 2008</b>	UI-08-T01 RC Recommended Approval March 13, 2008 ISO approval letter sent on March 13, 2008	UI-08-TCA-02 RC recommended approval on October 15, 2008 Data Request sent out on January 12, 2009 Data Request responses received January 28, 2009 ISO determination letter sent July 24, 2009	3	\$11.933	\$9.190		\$2.936		
103	<b>Macey's - Bucksport (CMP)</b> Replace two existing, over current- relay based/ SPS schemes with a New SPS with high speed transfer-trip channels <b>ISD September 2007</b>	UI-06-X01 ISO approval letter sent on March 14, 2008	CMP-08-TCA-03 RC recommended approval on October 15, 2008 ISO determination letter sent February 6,2009	3	\$6.464	\$6.464				
104.	<b>Lower SEMA short term Upgrades (NSTAR)</b> Work associated with the Settlement Agreement executed May 18, 2007 to resolve issues surrounding dispatch cost of the two Canal generating units. <b>ISD June 2008-June 2009</b>	NSTAR-07-T08,NSTAR-07-T09, NSTAR-07-T10, NSTAR-07-T11, NSTAR-07-T12(1),NSTAR 07-12(2) ISO approved August 17, 2007 NSTAR-07-T12(2) to be presented at December RC Meeting for revision	NSTAR-08-TCA-03 NSTAR to present to RC in November for information looking for a vote at Decembers RC meeting RC approval December 18, 2008 Additional information request sent on July 24, 2009 focusing on choice of SVC over a STATCOM device. NSTAR responded to data request on August 14,2009. ISO Determination letter sent on May 4, 2010	4	\$86.591	\$86.590				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
105.	<b>Auburn Street Substation (NEP)</b> Install two new 115 kV breakers and associated equipment. <b>ISD Summer 2008</b>	NEP-07-T12 ISO approval letter sent on August 17, 2007	NEP-08-TCA-14 NEP to present to RC in November as part of NSTAR's Lower SEMA short term upgrades TCA. Presentation in November for information only, looking for vote at Decembers RC meeting  RC recommended approval on December 18, 2008  Additional Information Letter sent to NSTAR on their portion of the project on July 24, 2009. NSTAR responded to data request on August 14,2009.  ISO Determination letter sent on January 10, 2011	2	\$3.282	Requested 3.282				
106.	<b>Bridgewater Substation #355 (NEP)</b> Line relay change to support looping at Carver Substation ( NSTAR substation) <b>ISD April 2009</b>	NSTAR-07-T08 ISO approval letter sent on August 17, 2007	NEP-08-TCA-15 NEP to present to RC in November as part of NSTAR's Lower SEMA short term upgrades TCA. Presentation in November for information only, looking for vote at Decembers RC meeting  RC recommended approval on December 18, 2008  Additional Information Letter sent to NSTAR on their portion of the project on July 24, 2009 PTF amount under 1 Million dollars noaction by the ISO needed	1	\$0.780	\$0.780				
107.	<b>Keene Rd Substation (BHE)</b> New 345/115 kV autotransformer and related equipment at the Keene Rd 115 kV Switching Station. <b>ISD 2010</b>	BHE-08-T03 RC Approval November 21, 2008	BHE-08-TCA-01 RC recommended approval December 18, 2008  TCA revised in January 2011	4	\$30.000	Requested 29.0		\$1.000		
107a.	<b>Keene Rd Substation (BHE)</b> New 345/115 kV autotransformer and related equipment at the Keene Rd 115 kV Switching Station. <b>ISD 2010</b>	BHE-08-X1,BHE-10-T01, BHE-10-T-02, BHE-10-T01 RC Approval October 20, 2010 ISO approval letter sent on October 22, 2010	BHE-08-TCA-01 REV 1 Introductory presentation at January 20, 2011 RC meeting  RC recommended approval February 15, 2011  Additional Information request sent on March 22,2011 for clarification on the Normally Opened breaker at the Keene Rd substation.  April 4,2011 BHE responded to the ISO 's additional information request  ISO determination letter sent June 16, 2011	4	\$38.000	\$37.000		\$1.000		
108.	<b>Frost Bridge 345/115 kV Autotransformer Replacement (NU)</b> Replace 345/115 kV Autotransformer and install a 2% series Reactor at North Bloomfield. <b>ISD December 2007 - Auto ISD Fall 2009 - Reactor</b>	NU-07-T15 & NU-07-T17 ISO approval letter sent on October 10, 2007	NU-08-TCA-07 NU presented project at December 18, 2008 RC  RC recommended approval on December 18, 2008  ISO determination letter sent June 16, 2009	2	\$3.106	\$3.106				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
109.	<b>Southern Loop (Velco)</b>  53 Miles of new 345 kV transmission. 2 New Substations- Newfane and Vernon. Vernon substation to connect to Vermont Yankee.  <b>ISD June 2011</b>	VELCO-08-T01 through VELCO-08-T13 and VELCO-08-T01 REV 1 through VELCO-08-T13 REV 1  ISO approval letter sent on October 1, 2008	VELCO-08-TCA-02  Velco made and information only presentation to the RC on December 18, 2008.  Velco to present at a Stakeholder meeting on January 29, 2009  ISO Data Request sent out on February 13, 2009 .  RC recommended approval on February 24, 2009 Velco responses to ISO-NE Data Request March 24, 2009  VELCO presented in front of PAC on April 21, 2009 discussing project cost with new CEWG template  ISO Determination letter posted on March 23, 2010 for a 30 day comment period. Comments to be sent to TCApps@iso-ne.com  ISO determination letter sent on May 17, 2010	4	\$264.231	\$241.481			State siting is complete. State of Vermont has issued Certificate of Public Good to VELCO	
110.	<b>Merrimack Valley/ North Shore (NEP)</b>  New 345/115 kV Wakefield Jct. Substation, upgrade of the O-167 line, reconductor the i-161 and A-153 lines. Reconfigure 345 kV bus at Sandy Pond and add 345 kV bay and upgrade the G-133W line.  <b>ISD 2009 - 2012</b>	NEP-05-T11, NEP-07-T02, NEP-08-T07 through NEP-08-T12, NEP-08-T33 through NEP-08-T38  ISO approval letter sent on October 10,2008	NEP-08-TCA-04,NEP-08-TCA-06 through NEP-08-TCA-11  Information only presentation to RC on December 18, 2008.  Part of Stakeholder discussion on January 29, 2009  ISO Data Request sent out on February 13, 2009 . NEP response to ISO-NE Data Request on March 13, 2009  RC recommended approval on March 17, 2009  <b>Second additional information request sent on June 2, 2011 in regards to the underground cable route and if there would be changes to the Project with the closing of Salem Harbor Generating Station.</b>	4	233.476	Requested: 215.301				
111.	<b>Heywood Rd Substation (CMP)</b>  Installation of new 115 kV Substation and re-rate of line section 67A  <b>ISD March 2009</b>	CMP-06-T13 Rev 1  RC approval January 26, 2008  ISO determination March 20, 2009	CMP-08-TCA-02  Information only presentation on December 18, 2008 to RC  RC recommended approval on January 26, 2009  ISO determination letter sent July 24, 2009	3	\$8.588	\$7.040				
112.	<b>Maine Power Reliability Program (MPRP) CMP</b>  350 Miles of 345 kV and 115 kV transmission Facilities, 20 substation projects.  <b>ISD March 2009</b>	CMP-08-T03 through CMP-08-T37 & CMP-08-X01  ISO determination letter sent on July, 31, 2008	CMP-09-TCA-01  Information only presentation on December 18, 2008 and January 26, 2009 to RC  Part of Stakeholder discussion on January 29, 2009  ISO Data Request sent out on February 16, 2009 .  RC recommended to not approve TCA application with a vote of 64% in favor  A 4th additional information request sent on July 24, 2009 focusing on cost adders, book value of the 34.5 kV underground cable and the like in kind replacement of the 34.5 kV underground cable.  ISO draft Determination draft letter posted September 24, 2009 for 30 day comment period. Comments were received form CMP, NU and Mass Attorney Generals office.  ISO Determination letter sent out on January 29, 2010	4	\$1,550.000	\$1,375.904			Section 254 was removed from consideration in this TCA application because a decision was not made on the construction that should be used for that section. It was latter recommend from the ISO that the section be built and operated at 115-kV	

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
113.	<b>White Mountains Upgrades - Y138 Closing (NU)</b>  Addition of +52°/-52° 115 kV phase angle regulator, three capacitor banks, 3 circuit breakers and three circuit switchers.  <b>ISD 2009</b>	NU-08-T55, NU-05-T56 and NU-05-T57  ISO determination letter sent on January 17, 2006	NU-08-TCA-05  RC recommended approval on February, 24, 2009  ISO additional information request sent out on July 24, 2009 focusing on the impacts this project will have on other transmission projects and clarification of valuation year of the costs. NU responded to these questions on September 1, 2009  RC recommended approval on November 13, 2009  ISO determination letter Sent on April 13, 2010	4	\$27.775	\$27.750				
114.	<b>Section 241 (CMP)</b> Construct 38.8 Miles of 115 KV parallel to the existing Section 83. Install one 115 kV breaker at Wyman Hydro Substation.  <b>ISD December 2012</b>	CMP-09-T01  ISO determination letter sent on January 26, 2009	CMP-09-TCA-02  Information only at March 17,2009 RC meeting  RC recommended approval on April 21, 2009  ISO determination letter sent December 28, 2010	3	\$19.574	\$19.519				
114a	<b>Section 241 (CMP)</b> Construct 38.8 Miles of 115 KV parallel to the existing Section 83. Install one 115 kV breaker at Wyman Hydro Substation.  <b>ISD December 2012</b>	CMP-09-T01  ISO determination letter sent on January 26, 2009	CMP-09-TCA-02 Rev 1  Information only at January 19,2010 CMP presented a revised cost for the project and explained why the cost had increased.  RC recommended approval on February 26, 2010  ISO determination letter sent December 28, 2010	3	\$13.260	\$13.260				
115.	<b>Devens Commerce Center (NEP)</b>  Conversion of two 69 kV lines (U-21E and V-22E) to 115 kV and construction of a new 115 kV switching station at the Devens Commerce Center  <b>ISD December 2011</b>	NEP-09-T01  RC Recommended Approval April, 20, 2009  ISO approval letter forthcoming  PPA withdrawn July, 27, 2010	NEP-09-TCA-01  Discussed at April 21, 2009 RC meeting. Several questions were asked in regards to the actual load forecast and year of need for the project. NEP withdrew the TCA Application vote from the meeting agenda.  On Hold for revised TCA  Withdrawn	3	\$9,200	Requested 9.2				
116.	<b>Upgrade the O-167 115kV Line (NSTAR Line # 423-515) (NSTAR)</b>  Rebuilding the underground section of line with two sets of parallel conductors using 2250 kcmil Cu HPFF cable and modification of the Mystic gas-insulated substation bus terminal  <b>ISD June 2010</b>	NEP-08-T33  ISO approval letter sent on October 10,2008	NSTAR-09-TCA-01  NSTAR's work that is required to complete the NEP Merrimack Valley North Shore Upgrades  RC recommended approval on March 17, 2009  ISO Determination letter sent on January 10, 2011	3	\$7.300	\$7.300				
117.	<b>Reconfigure Golden Hills Substation (NSTAR 345kV Line # 349) (NSTAR)</b>  Re-terminate the NSTAR 345kV underground line # 349 at National Grid's Golden Hills Substation and upgrade the protection system on line # 349 at NSTAR's Mystic Substation.  <b>ISD June 2009</b>	NEP-08-T07 thru NEP-08-T11  ISO approval letter sent on October 10,2008	NSTAR-09-TCA-02  NSTAR's work that is required to complete the NEP Merrimack Valley North Shore Upgrades  RC recommended approval on March 17, 2009  ISO Determination letter sent on January 10, 2011	2	\$1.700	\$1.700				
118.	<b>Bloomington - Vernon Hill Cable (NEP)</b>  Construction of the 3.7 mile Underground 115 kV Cable from Bloomington Substation to Vernon Hill Substation  <b>ISD December 2013</b>  NECPUC to be involved in category 4 5 TCA apps that require siting.	NEP-08-T62  ISO determination letter sent on February 27,2009	NEP-09-TCA-01  RC recommended approval on April 21, 2009  Additional information request sent on January 8, 2010.  NEP response to additional information request received on May 19, 2010  ISO Determination letter sent on July 15, 2011	4	\$31.060	\$30.813	\$0.247		\$247,000, the amount for the spare conduit was deemed to be local per the ISO	

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
119.	<b>Union Ave Substation (UI)</b> 1-115 kV GIS Breaker, 4-115 kV disconnect switches creating 2-115 kV line terminating positions at the existing Water Street - West River 8700 UG line  <b>ISD April 2011</b>	UI-08-T04  ISO determination letter sent on January 7, 2009	UI-09-TCA-01  Expected presentation and vote at June 16, 2009 RC meeting.  RC recommended approval on June 16, 2009.  Additional information request sent on July 24, 2009 focusing on customer contribution and ROW cost. UI responded August 12, 2009 to this data request.  ISO Determination letter sent on November 10, 2009	3	\$11.650	\$10.540				
119.a	<b>Union Ave (UI)</b> One (1) 115 kV gas insulated circuit breaker, four (4) 115 kV disconnect switches and associated bus, creating two 115 kV line termination positions interconnecting to the existing Water Street West River 8700 underground line, a low pressure oil filled 115 kV underground cable that is located adjacent to the planned substation site. This new configuration will segment the existing 8700 underground line into two underground transmission lines, the Water Street Union Avenue 8700 Line (2000' in length) and the Union Avenue West River 8702 Line (3980' in length)	UI-08-T04  ISO determination letter sent on January 7, 2009	<b>UI-09-TCA-01-Rev 1</b>  Presentation and vote at the August 23, 2011 RC meeting  <b>ISO Determination letter sent on December 16, 2011</b>	2	\$16.50	\$13.50		2.800		
120.	<b>Line 64 Re-build (BHE)</b> Rebuild approximately 44 miles of 115 kV transmission with bundled 795 ACSR conductor  <b>ISD</b>	BHE-08-T07  RC Approval December 18, 2008  ISO Approval Pending/1.3.9 Part of Keene Rd. Substation (BHE-08-T03)PPA	BHE-09-TCA-01  RC recommended approval on September 18, 2009.  ISO Determination letter sent on June 16, 2011	3	\$37.626	\$37.626				
121.	<b>Lime Kiln Substation (VELCO)</b> Construct a 3 breaker 115 kV ring bus on current K 23 line between VELCO's East Avenue and Tafts Corners substations  <b>ISD: June 2011</b>	VELCO-06-T04-Rev 1	VELCO-09-TCA-01  RC recommended approval on November 13, 2009  ISO determination letter sent on April 13, 2010	2	\$32.694	\$12.054		\$20.639		
122.	<b>Lyndonville Substation (VELCO)</b> Construct a 4 breaker 115 kV ring bus on current K 28 line between VELCO's Irasburg and St. Johnsbury substations with two 12.5 MVAR, 115 kV capacitor banks  <b>ISD: June 2011</b>	VELCO-09-T02  ISO determination letter sent on June 1, 2009	VELCO-09-TCA-02  Information only presentation to RC at November 13, 2009 meeting.  RC recommended approval on December 15, 2009  ISO determination letter sent on April 13, 2010	2	\$15.513	\$8.950		\$6.562		
123.	<b>Woodstock Substation (CMP)</b> Build a new Woodstock breaker and a half substation. Rebuild line Section 211 to 1113 ACSR conductor.  <b>ISD: March 2009</b>	CMP-07-T03  ISO determination letter sent on November 30, 2007	CMP-09-TCA-03  Information only presentation to RC at January 19, 2010 Meeting.  RC recommended approval on February 26, 2010.  ISO determination letter sent on March 25, 2011	2	\$18.802	\$15.298		\$3.504		

<sup>1</sup>NECPUC to be involved in category 4.5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
124.	<b>E205-E Rehabilitation Project (NEP)</b>  Wood pole replacement and lightning improvements on the E-205E 230-Kv Transmission line between the Connecticut River and Pratts Junction Substation  <b>ISD August 2010</b>	No PPA needed	NEP-10-TCA-01  Information only presentation at the March 17, 2010 RC meeting with a future vote.  RC recommended approval on May 24, 2010.  Additional Information request sent on June 24, 2010.  NEP responded to the ISO's additional information request on May 26, 2011.  <b>ISO determination letter sent on September 7, 2011</b>	3	\$43.600	\$43.600				
125.	<b>Central Western MA Reinforcements Group 1 (NEP)</b>  115kV line upgrades, Reconductor E-2050W for 120C operation, Breaker installation at numerous substations, 69kV to 115kV conversion at East Longmeadow  <b>ISD</b>	NEP-07-T14 through NEP-07-T19 and NEP-07-T27	NEP-10-TCA-02  Information only presentation at the March 17, 2010 RC meeting with a future vote.  Additional Information request sent on January 7, 2011.  NEP responded to the ISO's additional information request on August 16, 2011  <b>ISO drafting determination</b>	3	\$37.990	Requested: \$37.99			Original TCA Application , NEP-07-TCA-02 withdrawn on November 6, 2009. The project will be broken up into 7 separate TCA's based on electrical connectivity and timing.	
126.	<b>310/368 DCT Line Separation (NU)</b>  Reconstruct the 345 kV Millstone -Manchester 310 line on separate structures.  <b>ISD December 2010</b>	NU-08-T04 and NU-08-T05  ISO determination letter sent on July 18, 2008	NU-10-TCA-02  Initial presentation to be made at the July 19, 2010 RC meeting.  RC recommended approval on July 19, 2010.  ISO determination letter sent on March 25,2011	2	\$15.510	\$15.510				
127.	<b>Three Rivers Switching Station (NU)</b>  Construction of new 345 kV Switching Station located in close proximity to the Three Rivers Substation. Part of MPRP.  <b>ISD December 2013</b>	NU-09-T01  ISO determination letter sent on February 26, 2009	NU-10-TCA-05  Initial presentation to be made at the July 19, 2010 RC meeting.  RC recommended approval on July 19, 2010.  ISO determination letter sent on April 14,2011	3	\$36.000	\$36.000				
128.	<b>Littleton Reconfiguration Project (NU)</b>  The project includes the addition of (3) 115 kV circuit breakers; re-termination of the Littleton 230/115 kV autotransformer from the 115 kV Bus #1 to a new 115 kV bay position; and associated disconnect switches, protective relays and controls.  <b>ISD June 2011</b>	NU-09-T16  ISO determination letter sent on October 20, 2009	NU-10-TCA-03  Initial presentation and vote at the September 20, 2010 RC Meeting  RC recommended approval on September 20, 2010.  ISO determination letter sent on April 14,2011	2	\$6.590	\$6.590				
129.	<b>Sherwood 18P 115/13.8 kV Substation (NU)</b>  The Project involves looping the existing 115-kV 1890 line into the new substation with a tie breaker and requires new fiber optic communications for line protection relaying.  <b>ISD January 2010</b>	NU-08-T07  ISO determination letter sent on January 7, 2009	NU-10-TCA-04  Presentation and vote at the November 17, 2010 RC Meeting  RC recommended approval on November 17, 2010  ISO determination letter sent on April 14,2011	2	\$10.969	\$10.969				

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
130.	<b>Section 254 (CMP)</b> Section 254 is a new 54.8-mile-long 115 kV transmission line between the Orrington and Coopers Mills substations  <b>ISD December 2012</b>	CMP-08-T03 R2  ISO determination letter sent on July 31, 2008	CMP-10-TCA-01  Introduction presentation at the October 20, 2010 RC Meeting Presentation and vote at the November 17, 2010 RC Meeting  RC recommended approval on November 17, 2010  <b>ISO determination letter sent on June 16,2011</b>	4	\$96.839	\$96.839				
131.	<b>Starks Substation (CMP)</b> Construct a new Starks Switching Station in the town of Starks, Maine. This new switching station will sectionalize Section 63 about one-third of a mile South of the Section 63B Tap point. This yard will be constructed in the existing Section 63 right-of-way.  <b>ISD December 2012</b>	CMP-10-T02  ISO determination letter sent on September 28, 2010	CMP-10-TCA-02  Presentation and vote at the November 17, 2010 RC Meeting  RC recommended approval on November 17, 2010  ISO determination letter sent on March 25,2011	2	\$10.746	\$9.746		\$1.000		
132.	<b>Mystic 345 kV, 160 MVAR Reactor Project (NU)</b> Installation of a 160 MVAR, 345 kV regulation shunt reactor, 345 kV circuit breaker with aSynchronous Switching Controller and the installation of approximately 600' XLPE underground cable to connect the new breaker and reactor.  <b>ISD April 2009</b>	NSTAR-08-T07  ISO determination letter sent on August 20,2008	NSTAR-10-TCA-04  Presentation and vote at the November 17, 2010 RC Meeting  RC recommended approval on November 17, 2010  <b>ISO determination letter sent on March 25,2011</b>	2	\$6.748	\$6.748			Actual Costs. Work completed in 2009	
133.	<b>Deerfield Second Auto Transformer (NU)</b> Add second Deerfield 345/115 kV autotransformer and add three 345 kV circuit breakers.  <b>ISD December 2011</b>	NU-09-T02 - T07, T20  ISO determination letter sent on June 16, 2009	NU 10 TCA 06  Presentation and vote at the December 15, 2010 RC Meeting  RC recommended approval on December 15, 2010  <b>ISO determination letter sent on July 15, 2011</b>	4	\$62.50	\$51.97				
134.	<b>A127/B128 line Refurbishment (NEP)</b> The project includes the A127/ B128 circuits between Harriman Station in Readsboro, VT and Tower 510 in Millbury, MA.  <b>ISD April 2013</b>	NEP-07-T23/NEP-11-T01  ISO determination letter sent on December 17, 2007	NEP 11-TCA 01  Presentation at the December 15, 2010 RC meeting for information only. Clarification of questions received at the December 15,2010 RC meeting and vote at the January 20,2011 RC meeting  <b>RC recommended approval on January 20, 2011.</b>  <b>ISO issued and additional Information request to NEP on</b>  <b>NEP responded to the ISO's additional information request on</b>  <b>ISO determination letter sent on December 16, 2011</b>	4	\$82.70	\$82.70				
135.	<b>Orrington Substation Shunt Capacitor (BHE)</b> Reconfigure Orrington Shunt Capacitor to connect both to 115 kV busses so that loss of one bus does not eliminate the capacitor.  <b>ISD December 2010</b>	BHE-08-T06  ISO determination letter sent on October 22, 2010	BHE-11-TCA-01  Information only presentation at the January 20,2011 RC Meeting  Presentation and vote at the February 14,2011 RC Meeting  RC recommended approval February 14, 2011  <b>ISO determination sent on June 16, 2011</b>	1	\$2.26	\$2.26				

<sup>1</sup>NECPUC to be involved in category 4.5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
136.	<b>Orrington Series Breaker Addition (BHE)</b> Add a series 345kV breaker to Bangor Hydro's Orrington Substation. Requires moving an existing breaker to make room for new breaker.  <b>ISD December 2012</b>	BHE-10-T03  ISO determination letter sent on October 22, 2010	BHE-11-TCA-02 Information only presentation at the January 20,2011 RC Meeting  Presentation and vote at the February 14,2011 RC Meeting  RC recommended approval February 14, 2011  <b>ISO determination sent on June 16, 2011</b>	1	\$1.76	\$1.76				
137.	<b>Highgate Converter (VELCO)</b>  Replacement of the control and cooling systems at the Highgate DC converter station  <b>ISD November 2012</b>	N/A (Replacement in Kind)	VELCO-11-TCA-01  Information only presentation at the February 15 RC Meeting  TCA presented and discussed at the March 5 and April 12 RC meetings  RC recommended approval on April 12, 2011  <b>ISO determination letter sent on August 9,2011</b>	4	\$35.56	\$35.56				
138	<b>Grand Avenue 115 kV Switching Station Rebuild Project (UI)</b> Construction of a new 115 kV Grand Avenue Switching Station, adjacent to the existing 115 kV Grand Avenue Switching Station  <b>ISD May 2010</b>	UI 08 T05 and UI 08 T05 Rev 1  ISO determination letter sent on January 7, 2009  ISO determination letter sent on November 22, 2010	UI-11-TCA-01  Presentation at the April 12, 2011 RC meeting.  RC recommended approval on May 25, 2011  Additional information request sent to UI on June 16, 2011  UI's response received on July 13, 2011  <b>ISO determination letter sent on October 20, 2011</b>	4	\$69.99	\$69.99				
139.	<b>Tremont Street BPS Upgrade (NSTAR)</b> Control and protection upgrades at Tremont Street. Upgrades included addition of a prefabricated control house, a new trench, conduit and cable control system.  <b>ISD December 2010</b>	N/A	NSTAR-11-TCA-01  Presentation at the April 12, 2011 RC meeting.  RC recommended approval on May 25, 2011  <b>ISO determination letter sent on July 15, 2011</b>	2	\$8.79	\$8.28		0.502		
140.	<b>Seabrook 5 Breaker Project (NHT)</b>  Replacement of 4 existing GIS Circuit breakers and installation of a fifth. While most of the work being performed is PTF the applicant is looking for recovery on only part of that amount.  <b>ISD 2011</b>		NHT-11-TCA-01 Informational Presentation at the September 20, 2012 RC meeting ISO additional Information Request sent to NHT on September 12, 2012. This request focused on breaker 52, PP-9 adherence and alternatives. NHT responded to the ISO's additional information request on October 11, 2011. Presentation and discussion of responses to ISO at the October 19,2012 RC meeting. Applicants look for a vote at the November 15,2012 RC meeting  <b>RC voted to recommend on November 15, 2012</b>  <b>ISO Drafting TCA determination letter.</b>	3	\$68.89	<b>Requested: \$31.58</b>		3.330		
142.	<b>Rumford - Ripley (CMP)</b>  Expand Rumford Industrial Park Substation in a double breaker/bus configuration, add a new 115 kV line from Rumford Industrial Park Substation to Rumford 115 kV Substation. Also add a 30 MVar capacitor at Riley Substation.	CMP-07-T02-Rev 1  Approval May 4,2010	CMP-11-TCA-01  RC voted to recommend on August 23, 2011  <b>ISO determination letter sent on September 27, 2011</b>	2	\$15.99	\$15.24		0.745		

<sup>1</sup>NECPUC to be involved in category 4.5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)			CEWG Template
							Local as per ISO	Non PTF as per TO	Comments	
143.	<b>NSTAR 310-507/508 (NSTAR)</b> Reconductoring 5.2 miles each on two existing 115kV transmission lines using 795 ACSS conductor. - Replace sixty existing structures and install one new structure on the ROW. - Replace hardware, insulators and grounds on the existing lines. - Replace three station termination structures. - Replace the terminal disconnect cable risers <b>ISD December 2011</b>	NSTAR-11-T02  Approval February 2,2011	NSTAR-11-TCA-03  RC voted to recommend on August 23, 2011  <b>ISO determination letter sent on December 16, 2011</b>	2	\$9.60	\$9.60				
144.	<b>NEP Advance NEEWS (NEP)</b>  1. NEP-11-TCA-02 Expand Kent County Substation 2. NEP-11-TCA-03 Construct a New 345/115 kV Berry Street Substation In Plainville MA 3. NEP-11-TCA-04 Upgrade 115kV West Farnum Substation Terminal Equipment 4. NEP-11-TCA-05 Reconductor T7 115kV Line between Pawtucket-Somerset Substations  <b>ISD 2011</b>	NEP-08-T15 thru NEP-08-T18  Approval April 4, 2008	NEP-11-TCA-02 thru Nep-11-TCA-05  NEP presented an introduction on the Project to the RC at the May 25,2011 meeting.  RC voted to recommend on August 23, 2011  <b>ISO preparing an additional information request.</b>	4	\$147.90	<b>Requested: \$147.9</b>				
145.	<b>Long Term Lower SEMA (NSTAR)</b>  Expansion of the Carver 345 kV Substation and installation of a new overhead 345 kV line from Carver to the Bourne Substation area, about 18 miles in length; In the vicinity of the Bourne Substation the new 345 kV line will be cut into Line 120, the Canal to Bourne section of Line 120 will be connected to the Bourne 115 kV Substation; Installation of a new 6-breaker 115 kV Substation along Line 120, Installing a 345/115 kV auto-transformer at the new substation; Looping of Line 115 in and out of the new 115 kV substation; Separating the existing 345 kV double circuit tower crossing of the Cape Cod Canal (Lines 342 and 322) to separate structures.  <b>ISD 2012</b>	NSTAR-09-T05, NSTAR-09-T08, NSTAR-11-T07, NSTAR-11-T08 and NSTAR-11-X01.  Approval on November 2009 and July 2010	NSTAR-11-TCA-01  Presentation at the September 20, 2011, RC meeting.  RC recommended approval on October 19, 2001, meeting  <b>ISO determination letter sent on December 16, 2011</b>	4	\$106.30	\$106.30				
146.	<b>Eagle Switching Station (NU)</b>  115 kV switching station that consists of 4 circuit breakers and associated equipment.  <b>ISD June 2012</b>	<b>NU-10-T12</b>  <b>Approval on July 27, 2010</b>	<b>NU-11-TCA-01</b>  Presentation and vote expected as the December 13th RC meeting  RC voted to recommend on December 13, 2011  <b>ISO drafting determination</b>	3	<b>\$22.80</b>	<b>Requested: \$21.5M</b>			\$1.30M identified as non-PTF by the Applicant	

<sup>1</sup>NECPUC to be involved in category 4 5 TCA apps that require siting.

**Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff - Status as of 12/30/2011**

NO.	PROJECT DESCRIPTION	RELIABILITY REVIEW	TRANSMISSION COST ALLOCATION REVIEW	TCA CATEGORY *	TOTAL PROJECT COST \$(Millions)	PTF \$(Millions)	LOCAL \$\$ (Millions)		CEWG Template	
							Local as per ISO	Non PTF as per TO		Comments
147.	<b>Needham 115 kV Substation BPS Upgrades (NSTAR)</b>  Upgrade the Needham Substation to BPS standards as required per the NPSS A-10 implementation plan.  <b>ISD December 2011</b>	Not required	NSTAR-11-TCA-04  Presentation and vote expected as the December 13th RC meeting  RC voted to recommend on December 13, 2011  ISO determination letter sent on December 28, 2011	1	\$6.78	\$6.71			\$75,000.00 identified as non-PTF by the Applicant	
					\$7,073.305	\$5,732.942	\$228.349	\$259.718		

<sup>1</sup>NECPUC to be involved in category 4-5 TCA apps that require siting.