



**Northeast
Utilities System**

Northeast Utilities Service Company
107 Selden Street
Berlin, CT 06037-1651

Transmission Planning Department
Allen Scarfone
phone: 860-665-2519
phone: 888-NUTRANS
fax: 860-665-2609
email: scarfaw@nu.com

April 13, 2006

Mr. Donald Gates
Chairman, NEPOOL Reliability Committee
ISO New England, Inc.
One Sullivan Road
Holyoke, MA 01040-2841

Dear Mr. Gates,

In accordance with Schedule 12C of the ISO New England ("ISO-NE") Transmission, Markets, and Services Tariff ("ISO-NE Tariff"), Northeast Utilities ("NU") hereby submits the attached Transmission Cost Allocation application(s) reporting cost support information associated with the construction, retirement, or modification to facilities rated 69 kV and above that qualify as regional pool transmission facilities ("PTF") for the following project(s):

NU-06-TCA-05 Install a new 345-kV circuit breaker at the Deerfield Substation

NU believes that the transmission facility reinforcement plan qualifies for regional cost allocation under the ISO-NE Tariff. NU is requesting a regional cost determination from the NEPOOL Reliability Committee and final approval from ISO-NE.

If you have any questions, I can be reached at the numbers above.

Sincerely,

Allen Scarfone

Transmission Cost Allocation Application Form

Project Name: Deerfield Circuit Breaker

TCA: NU-06-TCA-05

1.	Applicant: Northeast Utilities (Public Service Company of New Hampshire)	Date: April 13, 2006
----	---	-----------------------------

2.	<u>Project Description:</u>		<u>In Service Date:</u>
	a. Summary of PTF-related work for Project:	In stall a new 345-kV circuit breaker at PSNH's Deerfield Substation in series with the existing 851 circuit breaker.	June 2006
	b. Summary of Non-PTF-related work for Project:	None	

3.	Was a transmission Proposed Plan Application required for this work?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
4.	Has a transmission Proposed Plan Application been approved? If yes, attach a copy and reference Proposed Plan Application # and approval date.	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/> Approval Date:

Need For Project:

5.	Need Based On:	Yes	No	
	a. Reliability	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b. Economic	<input type="checkbox"/>	<input type="checkbox"/>	
	c. Service to new load	<input type="checkbox"/>	<input type="checkbox"/>	
	d. New generator interconnection	<input type="checkbox"/>	<input type="checkbox"/>	
	If yes, Category of Generator (See Schedule 11 of Section II of the Tariff):	'A' <input type="checkbox"/>	'B' <input type="checkbox"/>	'C' <input type="checkbox"/>
	Generator Proposed Plan Application Number	_____		
	Generator Proposed Plan Application Date	_____		
	(Attach copy of cover letter & Generator Proposed Plan Application)			
	e. Other (specify in line 6)	<input type="checkbox"/>	<input type="checkbox"/>	

6.	Provide a narrative description of the need for this Project.	
		The 345-kV circuit breaker is needed to remove the 851 circuit breaker failure contingency from consideration in operation of the Northern New England transmission grid. The removal of the stuck circuit breaker contingency will increase the Maine – New Hampshire transfer limit from 1200 MW to 1480 MW according to ISO-NE.

Cost of Project:

7.	Total Proposed PTF Cost of this Project:	
	a. PTF Costs associated with this Project:	\$1,700,000
	b. Generator Supported PTF Costs**:	
	If the costs in 7.a. plus 7.b. do not equal the total PTF cost, please explain and indicate who is responsible for the remaining costs.	
8.	Costs introduced as a result of local, state or other regulatory/legislative requirements, including costs identified pursuant to Section 1.6.3 of this PP-4.	

9.	Total Non-PTF Cost associated with this Project (if any)	\$ none
----	--	---------

10.	Total PTF Cost based on: (check one)	
	Actual Costs	<input type="checkbox"/>
	Estimated Costs*	<input checked="" type="checkbox"/>
		Or

11.	Provide a breakdown of the total costs consistent with Table 1. If applicable, explain how the cost of common facilities was allocated between PTF and Non-PTF.	
	Engineering	\$370k
	Material	\$380k
	Construction	\$950k
	Total:	\$1,700k

12.	Does this Project result in a change of existing Non-PTF facilities to PTF?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
-----	---	------------------------------	--

13.	Describe the major transmission alternatives that were considered and why the preferred alternative was selected.	
	Alternative 1) Swap the 345-kV 385 and 307 line positions at the Deerfield 345-kV Substation. This alternative has significant protection and control modification requirements, design modifications causing several transmission line crossover conditions and extended outages for construction activities.	

* If the actual PTF cost exceeds the estimated PTF cost by more than 10%, a revised filing is required.

** Pool-Supported PTF costs were determined pursuant to Schedule 11 of Section II of the Tariff.