

## Attachment 3: Subsystem Assessment List

Prepared by Central Vermont Public Service.

Location	Year Needed	"90/10" Load Forecast for Year	Contingency	Issue	VELCO Criteria Violations	Affected DUs	Lead DU	Determine Affected DU's	Determine Subsystem Criteria	Identification of proposed Transmission Solution	NTA	Solution Selection
Ascutney	2009	1141 MW	Subtransmission	Voltage	Low voltage & voltage collapse	CVPS	CVPS	This area study requirements will be identified after further CVPS assessment utilizing its applicable reliability criteria and further discussions with VELCO and the VSPC. The annual report will provide an update regarding these efforts.				
Ascutney	2010	1155 MW	Transformer	Thermal	Ascutney-Lafayette	CVPS	CVPS					
Ascutney	2009	1141 MW	Transformer	Thermal	North Springfield to Riverside	CVPS	CVPS					
Ascutney	2009	1141 MW	Transformer	Voltage	Ascutney	CVPS	CVPS					
Ascutney	2009	1141 MW	Transmission	Voltage	Ascutney	CVPS, GMP, Ludlow	CVPS					
Ascutney/ Cold River	2009	1141 MW	Transmission	Thermal	Wallingford to Cavendish	CVPS, Ludlow	CVPS	Agree with VELCO assessment	CVPS advises that its Wallingford to Mt. Holly facilities have been reconducted from #1 CU to 477 ACSR and that the Mt. Holly to Cavendish facilities are scheduled for reconducting to 477 ACSR in 2011. The 477 ACSR conductor has a summer rating of 49.7 MVA. This project will eliminate the thermal issues indicated in VELCO analysis.			
Chelsea	2009	1141 MW	Transmission	Voltage	Chelsea	CVPS, WEC	CVPS	This area study requirements will be identified after further CVPS assessment utilizing its applicable reliability criteria and further discussions with VELCO and the VSPC. The annual report will provide an update regarding these efforts.				
Chelsea/ Hartford	2013	1185 MW	Subtransmission	Voltage	Chelsea to Hartford	CVPS, GMP, WEC	CVPS					
Montpelier	2009	1141 MW	Subtransmission	Thermal	Berlin to Mountain View Tap to Montpelier	GMP, WEC	GMP	N/A	N/A	N/A	N/A	N/A

2009 Vermont Long-Range Transmission Plan

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Montpelier	2009	1141 MW	Transformer	Thermal	Berlin to Mountain View to Montpelier	GMP, WEC	GMP	N/A	N/A	N/A	N/A	N/A
Montpelier	2016	1215 MW	Transmission	Thermal	Berlin to Mountain View Tap to Montpelier	GMP, WEC	GMP	N/A	N/A	N/A	N/A	N/A
Rutland	2009	1141 MW	Subtransmission	Thermal	North Rutland to East Rutland to South Rutland	CVPS	CVPS	Agree with VELCO assessment	CVPS plans to reconductor the North Rutland to East Rutland Line in 2009 to 477 ACSR with a summer rating of 49.7 MVA. This project was identified as an efficiency upgrade but will also help to solve reliability concerns affecting this area. This project will eliminate a portion of the thermal issues indicated in VELCO analysis. By order of November 4, 2008, the PSB expanded the scope of geographic-targeting energy efficiency efforts being undertaken by Efficiency Vermont to include the Rutland area. These efforts will impact loads. CVPS will monitor loads in this area and will continue to assess the area to determine if further measures are necessary. The joint CVPS/VELCO Docket 7081 analysis for the Rutland/Cold River will also identify additional upgrades.			
Rutland	2009	1141 MW	Transformer	Thermal	North Rutland to South Rutland	CVPS	CVPS	Agree with VELCO assessment	CVPS	12/31/2009	4/30/2010	12/31/2010
Rutland/Cold River	2009	1141 MW	Subtransmission	Voltage	Rutland to Cold River	CVPS	CVPS	Agree with VELCO assessment	CVPS	12/31/2009	4/30/2010	12/31/2010

2009 Vermont Long-Range Transmission Plan

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St Albans	2009	1141 MW	Subtransmission	Thermal	Fairfax Falls to Milton	CVPS	CVPS	CVPS/VEC		CVPS plans to reconductor the Milton to Fairfax Falls line to 477 ACSR with a summer rating of 37.2 MVA in 2012. This project may be completed sooner if wind development goes forward. This project will eliminate the thermal issues indicated in VELCO analysis.		
St Albans	2009	1141 MW	Subtransmission	Thermal	North St. Albans to National Carbide	CVPS	CVPS	CVPS/VEC		CVPS plans to reconductor the North St. Albans to National Carbide Line in 2009 to 477 ACSR with a summer rating of 37.2 MVA. This project will eliminate the thermal issues indicated in VELCO analysis.		