

**Docket No. 272 – Development and Management Plan Inspection**

**The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the construction of a new 345-kV electric transmission line and associated facilities between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut, including reconstruction of portions of existing 115-kV and 345-kV electric transmission line, the construction of Beseck Switching Station in Wallingford, East Devon Substation in Milford, (and Singer Substation in Bridgeport), modifications at Scovill Rock Switching Station and Norwalk Substation, and the reconfiguration of certain interconnections.**

**Beseck Switching Station Inspection**

**Date:** March 20, 2007

**Inspector:** Matthew Creighton

**Location:** Beseck Switching Station

**Rainfall:** 1.96” of precipitation was recorded in the week prior to inspection, with 1.48” of the total reported on 3/16 (NOAA data at Meriden, CT).

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>	<b>Corrected Action</b>
<b>Access roads and adjacent roadways</b>	<b>All traffic entering &amp; exiting the site is using the driveway on the east side. West side entrance has been closed due to the snow. 3/20/07</b>	<b>Continue to monitor and evaluate during larger storm events. 3/20/07</b>	<b>Not Applicable (NA)</b>
	<b>Segment 1A ROW crews installed a stone access east of Beseck to reduce tracking to the main pad. 3/20/07</b>	<b>Continue to maintain and work out schedule with 1A contractors to share responsibility. 3/20/07</b>	<b>NA</b>
	<b>The sediment trap at the culvert under the ROW access road is covered in snow, but all sediment appears contained. 3/20/07</b>	<b>This area will still require regular attention by all contractors (BSS and Segment 1A) to ensure water does not ever spill-over the trap. Maintain basin/ trap and haybales at the outlet when necessary. 3/20/07</b>	<b>NA</b>
	<b>Haybales at the edge of the site exit are degraded. 3/6-3/20/07</b>	<b>Replace haybales before the next rain or potential run-off event. Contractors stated haybales would be replaced shortly. 3/6-3/20/07</b>	<b>Needs attention. Contractors stated a shipment of haybales was on its way.</b>
	<b>Some turbid run-off was still noted from the site exit despite the efforts</b>	<b>Small stone check dams are also suggested along Carpenter Ln. to help</b>	<b>Needs evaluation.</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access roads and adjacent roadways (continued)</b></p>	<p>and controls. 3/20/07</p>	<p>filter run-off before it reaches CBs. 3/20/07</p>	
	<p>Gutters had accumulated sand from town snow removal and some sedimentation from turbid run-off from the site. 2/27-3/20/07</p>	<p>Clean/sweep roadway regularly, including the gutters by hand if necessary. 2/27-3/20/07</p>	<p>Needs regular attention.</p>
	<p>Even though sediment accumulation is partially due to town sanding activities, CB liners along Carpenter Lane should be cleaned/replaced. Gutter buddies (filter socks) have been removed for plowing and should be replaced. 3/20/07</p>	<p>Clean and maintain liners. Continue to replace gutter buddies as weather permits and remove only for plowing. 3/20/07</p>	<p>Needs regular attention</p>
	<p>Water bars have been installed across the top of the closed west entrance to slow run-off and reduce turbidity before it flows off-site; no sediment was noted leaving the closed entrance during the inspection. 3/20/07</p>	<p>Continue to monitor and evaluate during larger storm events. Adjust controls as necessary. Area appears stable. 3/20/07</p>	<p>Stone water bars added across the top of the site entrance to reduce run-off.</p>
	<p>Haybales remain across a portion of the entrance. Stone at the entrance has been cleaned before the last snowfall. 3/20/07</p>	<p>New controls appear to be helping. Continue to monitor entrance for run-off and replace haybales as needed. 2/27-3/20/07</p>	<p>NA</p>
<p>The CB within the entrance drive cannot be sealed yet so a drainage ditch remains in place prevent turbid water from flowing into the storm-water system. 3/20/07</p>	<p>CB will be sealed during final grading. Continue to monitor existing controls. 3/20/07</p>	<p>NA</p>	
<p><b>Foundation and site construction</b></p>	<p>Minor grading continues as needed. The majority of the site is at finished grade. 3/20/07</p>	<p>Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 3/20/07</p>	<p>NA</p>
	<p>Excavations for</p>	<p>Concrete washouts are</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, and regrading soils. Chain link fence installation is almost complete. 3/20/07</p>	<p>being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 3/20/07</p>	
<p><b>Erosion and sediment controls</b></p>	<p>Perimeter silt fence along the east side of the site is secure and well-maintained. 3/20/07</p> <p>Plows have knocked down the silt fence along Carpenter Lane. Adjacent area is stable, no erosion noted. Frozen conditions prevent repairs. 2/27-3/20/07</p> <p>The site entrance (west side) has been closed again. Controls remain in place to reduce turbidity in the run-off leaving site 3/20/07</p> <p>Filter fabric and numerous haybales remain in place over and around the drain inlets in the permanent detention basins. Sediment accumulation was noted around some haybales but doesn't appear to have entered the stormwater system. Area is currently snow covered. 3/20/07</p> <p>The storm water outlet pipe at the wetland across Carpenter Lane has several layers of haybales in place to help filter turbid water. The wetlands are covered in snow &amp; ice reducing visibility. Water within</p>	<p>Continue to inspect and maintain silt fence throughout site and repair as needed. 3/20/07</p> <p>Silt fence needs repair to the extent feasible. (however, adjacent areas are not exposed or contributing to run-off). 3/20/07</p> <p>Continue to monitor controls for effectiveness. Stabilize remaining areas when feasible. See Access Roads and Adjacent Roadways. 3/20/07</p> <p>Continue to monitor and replace haybales as needed within the detention basins. Removed sediment from controls to maintain effectiveness as needed. See dewatering section for more information. 3/20/07</p> <p>Haybales should be monitored and replaced as needed at the storm drain outlet. Stormwater should continue to be contained and filtered before leaving the site. Continue addressing stormwater issues at the</p>	<p>NA</p> <p>Repair if necessary.</p> <p>Site entrance closed and more water bars added.</p> <p>NA</p> <p>The quality of stormwater was improved from previous storm as good efforts were made on site but some turbid water is still reaching the wetlands.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>the outlet and flowing into the wetlands did have slight turbidity. In general, sediment from the site is very fine and difficult to filter but increased efforts on site appear to have helped. ROW contractors have hand-felled trees within this wetland as part of the Segment 2a ROW clearing 3/20/07</p>	<p>source. Good efforts were made on site to reduce run-off. New haybales are needed along the site exit, and stone check dams along Carpenter Ln. should be considered to help reduce turbid run-off from entering the CBs. See Segment 2a reports for more information on wetland clearing. 3/20/07</p>	
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>Slightly turbid water was observed leaving the outlet across Carpenter Lane and entering the snow-covered wetlands. Turbid water appears to be leaving the site exit and entering a CB with insufficient controls. 3/20/07</p> <p>A timber mat staging area is in place in the wetlands on east side of site. Foundation was poured this week. 3/20/07</p>	<p>Several areas in the wetland have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 3/20/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/23-3/20/07</p> <p>These activities are covered in the Segment 1a inspection report. 3/20/07</p>	<p>Continue to evaluate and add controls as needed.</p> <p>Not jurisdictional to this D&amp;M plan.</p>
<p><b>State species of concern, threatened and endangered species.</b></p>	<p>According to the D&amp;M plan, state-listed species are not located in this work area.</p>	<p>None. 3/20/07</p>	<p>NA</p>
<p><b>Vegetative clearing or stabilization</b></p>	<p>Most exposed soil surfaces around the site, which are not currently active, are hydroseeded (including a tackifier) to promote stabilization until grass growth can establish in the spring. This includes the slopes of the detention basins. 3/20/07</p> <p>Erosion control mats are in place on steep slopes.</p>	<p>Continue to place hay mulch (or similar) for temporary stabilization, and closely monitor detention basin slopes. Monitor site closely, especially during warmer temperatures; snowmelt and ground thaw increase sedimentation. Regrade any erosion (gullies) in the spring. 3/20/07</p> <p>Continue to reduce areas of exposed soil where</p>	<p>NA</p> <p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Some areas were at final grade and crushed stone base was installed at work trailer locations. 3/20/07	work is not actively occurring or not expected to occur for more than 14 days (including soil stockpiles). 3/20/07	
<p><b>Dewatering</b>  <i>(As of 1/12/07 contractors stated: the detention ponds will be monitored during rain events and spring thaw to ensure that neither pond reaches capacity. Water will be pumped to the larger pond and then to the frac tank if any component of the system is reaching capacity.)</i></p> <p><b>Dewatering (continued)</b></p>	<p>Dewatering was not observed during this inspection. When dewatering is required turbid water is pumped into two frac tanks on site in order to settle. Clean water is released to the controlled CBs within the detention basins onsite. 3/20/07</p> <p>Muddy River, located a distance down gradient from the wetland across Carpenter Lane, is also being monitored. At this time no turbidity from the site appears to have reached Muddy River. 3/20/07</p>	<p>When dewatering is required, pumping must be monitored to avoid, overwhelming controls, or increasing sediment in the basins. Clean water from the frac tank can be pumped directly into the controlled CBs in the detention basins as long as water is released slowly. This will prevent overwhelming controls and forcing sediment, from the stormwater system into the wetlands at the outlet. 3/20/07</p> <p>Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 3/20/07</p>	<p>Continue to evaluate controls for effectiveness.</p> <p>NA</p>
<b>Blasting</b>	All blasting was complete as of 9/7/06.	None. 3/20/07	NA
<b>Spills, soils and material storage</b>	<p>All remaining soil on site will be used as fill in construction activities. 3/20/07</p> <p>A few small stockpiles resulted from the foundation excavations. 11/20/06-3/20/07</p> <p>Spill cleanup materials were available on site and are being used and restocked as needed. 3/20/07</p>	<p>Soils appear to be handled appropriately. 3/20/07</p> <p>Install controls for the stockpiles where/if needed. 11/20/06-3/20/07</p> <p>Always use spill control materials when working on equipment and during refueling 3/20/07</p>	<p>NA</p> <p>NA</p> <p>NA</p>

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>	<b>Corrected Action</b>
<b>Additional Observations</b>	<b>A line of haybales is maintained across the old ROW access to prevent unauthorized use (eg ATVs) and potential run-off. 3/20/07</b>	<b>Monitor haybales and replace as needed. 3/20/07</b>	<b>NA</b>

**Next likely scheduled inspection:** Tuesday March 27, 2007

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Field Inspector:** Matthew Creighton, BSC Group

**Reviewer:** Diana Walden, BSC Group



Site entrance/exit off Carpenter Lane is at final grade; haybales at the exit are degraded and should be replaced. This was going to occur shortly. Turbid run-off was noted during the inspection due to snow.



View of Carpenter Lane and retaining walls. Some slight sedimentation (as well as sand from town sanders) was noted along the gutters. Catch basins controls need maintenance.



Haybales were placed across a portion of the site entrance (west side) in an effort to reduce turbid run-off from the site.



Haybales and controls remain in place at the inlet of the detention basin. Sediment from run-off was contained effectively the last few weeks.



**View of stone water bars installed across the top of the closed site entrance.**



**View of the snow covered culvert and trap under the access road to the ROW.**



**Storm drain outlet across Carpenter Lane has slightly turbid water flowing through the haybales. The ice/snow cover in the culvert and wetlands makes observations difficult.**



**Slightly turbid water was observed leaving the haybales and entering the wetlands. Evaluate whether the amount of sediment accumulation justifies the minor disturbance needed to remove it, once the water subsides. Timber harvesting/clearing within the wetlands for 2A was complete.**