

**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:** January 16, 2007

**Inspector:** Matthew Creighton

**Location:** Beseck Switching Station

**Rainfall:** Total of 0.48" rain from 1/9–1/16/07 with 0.23" on 1/15/07 (as reported by NOAA 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 leaving the site is using the stone exit on east side. The stone access pad has been extended into the site and a new 16'x16'x 2' deep, lined detention swale was installed under the stone exit pad. Haybales were replaced and clear water was leaving the pad. 1/16/07</b>	<b>Continue to monitor and evaluate during larger storm events. Adjust controls as necessary. Efforts are good and appear to be making a difference in the stormwater run-off quality. 1/16/07</b>	<b>New detention swale installed, stone pad extended, and haybales replaced.</b>
	<b>Carpenter Lane has been swept and as of 1/12/07, we were informed sediment accumulation was removed from the gutters. 1/16/07</b>	<b>Clean/sweep roadway regularly, including the gutters by hand if necessary. 1/16/07</b>	<b>Roadway and gutters were swept.</b>
	<b>The new access drive near the Old Zolnik driveway is now the entrance for the site. It was regraded and all exposed areas were hydroseeded (including a tackifier). No run-off noted. 1/16/07</b>	<b>Continue to monitor for run-off. Add/adjust controls as necessary. 1/16/07</b>	<b>Adjacent areas were hydroseeded.</b>
	<b>Catch basin liners and gutter buddies along Carpenter Lane were cleaned and/or replaced.</b>	<b>Continue to monitor and maintain liners and controls. 1/16/07</b>	<b>CB controls were cleaned/replaced.</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access roads and adjacent roadways (continued)</b></p>	<p><b>1/16/07</b></p> <p><b>Minor amounts of sediment were observed at the culvert under the ROW access road. All sediment appears well contained within the sediment trap. 1/16/07</b></p> <p><b>Haybales remain in place across the old Zolnik Driveway. 1/16/07</b></p>	<p><b>This area will still require regular attention by all contractors (BSS and Segment 1A) to reduce sediment tracking. Maintain basin/ trap and haybales at the outlet when necessary. 1/16/07</b></p> <p><b>Continue to maintain haybales across the driveway to slow stormwater. 1/16/07</b></p>	<p><b>Not Applicable (NA)</b></p> <p><b>NA</b></p>
<p><b>Foundation and site construction</b></p>	<p><b>Some grading continues. The majority of the site is at finished grade. 1/16/07</b></p> <p><b>Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, and regrading soils. 1/16/07</b></p>	<p><b>Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 1/16/07</b></p> <p><b>Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 1/16/07</b></p>	<p><b>NA</b></p> <p><b>NA</b></p>
<p><b>Erosion and sediment controls</b></p>	<p><b>Silt fence at site perimeter is secure and well-maintained. South and east sides are reinforced with bark mulch. 1/16/07</b></p> <p><b>Filter fabric and haybales remain in place over and around the drain inlets in the permanent detention basins. New haybales are in place at the inlet. 1/16/07</b></p> <p><b>Stormwater dewatered from excavations is now pumped to two frac tanks on site and allowed to settle. Water will be retained here or released to the basin CBs when it is clean. 1/16/07</b></p>	<p><b>Continue to inspect and maintain silt fence throughout site and repair as needed. 1/16/07</b></p> <p><b>Continue to monitor and replace haybales as needed within the detention basins. See dewatering section for more information. 1/16/07</b></p> <p><b>Continue to use frac tanks to reduce stormwater flows within the basins. See dewatering section for more information. 1/16/07</b></p>	<p><b>NA</b></p> <p><b>Haybales were added to detention basins.</b></p> <p><b>Two frac tanks are being used to hold turbid water from the excavations.</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Erosion and sediment controls (continued)</b></p>	<p>The detention basins have been hydroseeded (including a tackifier) to stabilize soils until grass cover can establish in the spring. Hay mulch was added to the eroded gullies. 1/16/07</p> <p>Most of the exposed soil surfaces around site have been graded and hydroseeded (including a tackifier). Erosion control mats are also in place on steeper slopes. 1/16/07</p> <p>The storm water outlet pipe at the wetland across Carpenter Lane has several layers of new haybales to help filter turbid water. Sediment within the outlet and wetlands has settled out of the water column and clean water is leaving the pipe. The sediment is fine and difficult to filter but efforts have also increased on site. 1/16/07</p>	<p>Monitor the hydroseeded areas for stabilization. 1/16/07</p> <p>Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 1/16/07</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. Always closely monitor dewatering activities. See dewatering section. 1/16/07</p>	<p>Detention basins were hydroseeded. Mulch was added to the washouts.</p> <p>All exposed surfaces not being actively worked were hydroseeded (with a tackifier).</p> <p>Controls have been increased at the outlet as well as on site. The quality of stormwater has improved.</p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>Turbid water within the wetland and outlet across Carpenter Lane has settled out of the water column. Clear water was leaving the controls and entering the wetlands. Sediment is extremely fine and difficult to remove or filter. 1/16/07</p> <p>Wetlands on east side of site were clean and well protected. 1/16/07</p>	<p>Several areas have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 1/16/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/16/07</p> <p>Continue to monitor. This area is also covered by the Segment 1a inspections. 1/16/07</p>	<p>Clear water was flowing through controls, Sediment has settled out of the water column. Continue to evaluate</p> <p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<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. 1/16/07</p>	<p>NA</p>
<p><b>Vegetative clearing or stabilization</b></p>	<p>Most exposed soil surfaces around the site have been hydroseeded (including a tackifier) to promote stabilization until grass growth can establish in the spring. Hay mulch has been used to stabilize erosive gullies within detention basins. 1/16/07</p> <p>Erosion control mats are in place on steep slopes. Some areas were at final grade and crushed stone base was installed at work trailer locations. 1/16/07</p>	<p>Continue to place hay mulch (or similar) for temporary stabilization, and closely monitor detention basin slopes. 1/16/07</p> <p>Continue to reduce areas of exposed soil where work is not actively occurring or not expected to occur for more than 14 days (including soil stockpiles). 1/16/07</p>	<p>Hydroseed and hay mulch were placed on exposed soils around the site.</p> <p>NA.</p>
<p><b>Dewatering</b></p> <p><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>Dewatering was needed to remove rainwater from new foundation pits. Turbid water is being pumped into two new frac tanks in order to settle. Clean water will be released to the controlled CBs within the detention basins onsite. 1/16/07</p> <p>The small eroded gullies on the basin slope were mulched with hay until spring when it can be regraded and establish grass cover. 1/16/07</p> <p>Muddy River; located a distance down gradient from the wetland across</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. 1/16/07</p> <p>Regrade slopes in the spring. 1/16/07</p> <p>Continue to monitor and evaluate Muddy River during rain events and</p>	<p>Two frac tanks are on site to contain and settle stormwater. Clean water will be released directly to the CB.</p> <p>Continue to evaluate controls for effectiveness.</p> <p>Hay mulch was added to gullies.</p> <p>NA</p>

<b>Areas of Inspection</b>	<b>Observation</b>	<b>Recommended Action</b>	<b>Corrected Action</b>
<b>Dewatering (continued)</b>	<b>Carpenter Lane, is also being monitored. At this time no turbidity from the site appears to have reached Muddy River. 1/16/07</b>	<b>dewatering activities. Reinforce and improve controls on site as needed. 1/16/07</b>	
<b>Blasting</b>	<b>All blasting was complete as of 9/7/06.</b>	<b>None. 1/16/07</b>	<b>NA</b>
<b>Spills, soils and material storage</b>	<b>All remaining soil on site will be used as fill for construction activities. 1/16/07</b>  <b>A few small stockpiles resulted from the foundation excavations. 1/16/07</b>  <b>Spill cleanup materials were available on site and are being used and restocked as needed. 1/16/07</b>	<b>Soils appear to be handled appropriately. 1/16/07</b>  <b>Install controls for the stockpiles where/if needed. 11/20/06-1/16/07</b>  <b>Always use spill control materials when working on equipment and during refueling 1/16/07</b>	<b>NA</b>  <b>NA</b>  <b>NA</b>
<b>Additional Observations</b>	<b>None. 1/16/07</b>	<b>None. 1/16/07</b>	<b>NA</b>

**Next likely scheduled inspection:** Tuesday January 23, 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

**Reviewer:** Diana Walden



Site entrance off Carpenter Lane is at final grade; erosion controls have been removed. Monitor carefully for run-off.



View of Carpenter Lane and retaining walls. Sediment accumulation was removed from the gutters, new haybales were installed, CB controls were cleaned and the stone entrance was improved.



Dewatering from foundation pits is being pumped into frac tanks to settle and eventually released to the site. Clean water could be pumped directly to the protected CB at a low flow rate so as not to overwhelm controls.



Surface areas on site have been fully hydroseeded (including a tackifier in an effort to stabilize soils. Additional haybales were installed at the inlet. Hay mulch was also added to the eroded gullies on the basin slope.



**Haybales were replaced across the old Zolnik driveway. The remaining stockpile and exposed surfaces have been hydroseeded (including a tackifier).**



**View of the culvert under the new access road. A minor amount of sediment was noted but appears well contained within the trap. Beseck and Seg. 1A contractors are jointly sharing the access road.**



**Sediment has settled out at the storm drain outlet across Carpenter Lane. Clear water was noted flowing through the recently replaced haybales. The additional efforts on site appear to be effective at reducing sediment. Continue to monitor.**



**Sediment has also settled out of the water column in the wetlands across Carpenter Lane. Sediment removal may still be necessary once the water level subsides. It will be evaluated whether the amount of accumulation justifies the minor disturbance to remove it.**