

**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:** November 20, 2006

**Inspector:** Matthew Creighton

**Location:** Beseck Switching Station

**Rainfall:** Total of 0.93” rain between 11/15 – 11/20 with 0.86” on 11/16 (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 stone entrance on east side. Minor sediment tracking was noted on Carpenter Lane. 11/20/06</b>	<b>Clean/sweep roadway regularly. Continue to monitor stormwater leaving the site; replace and add more controls as needed. Clean gutters by hand as needed. 11/20/06</b>	<b>Roadway was swept</b>
	<b>Stone access pad is mostly clean of sediment. Trucking/ soil removal from site is complete for now. Stone pad has been regraded. 11/20/06</b>	<b>Continue to maintain stone construction entrance. Determine how to prevent all run-off from reaching the road. 11/20/06</b>	<b>The stone was re-graded.</b>
	<b>New haybales were installed at the edge of the entrance pad to filter storm water before leaving the site. No water was flowing from the pad during the inspection. 11/20/06</b>	<b>Monitor haybales and replace or reposition as needed to filter run-off. Evaluate additional containment since turbid water has previously been observed leaving site. 11/20/06</b>	<b>New haybales were installed.</b>
	<b>A new riprap sediment trap was installed at the outlet of the culvert under the access road. The old ROW access road is now closed off and the Beseck entrance will be used jointly with segment 1A contractors 11/20/06</b>	<b>This area will still require regular attention by all contractors to reduce sediment tracking. Maintain basin/traps and haybales at the outlet. 11/20/06</b>	<b>Riprap sediment trap was installed and haybales were in place at the inlet and outlet.</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Access roads and adjacent roadways continued</b></p>	<p><b>Additional haybales and silt fence were placed at the old Zolnik driveway/new access area; area was graded and has been seeded. 11/20/06</b></p> <p><b>CB liners appear to be working well. Gutter Buddies are in place as a dam at the drop inlet to force water through the controls. 11/20/06</b></p>	<p><b>Continue to maintain/replace controls as needed. Monitor until stable. 11/20/06</b></p> <p><b>Continue to monitor and maintain liners as needed. 11/20/06</b></p>	<p><b>Final grading and seeding complete.</b></p> <p><b>Not Applicable (NA)</b></p>
<p><b>Foundation and site construction</b></p>	<p><b>Grading onsite continues in the north. The south side of the site is at finished grade. 11/20/06</b></p> <p><b>Fence installation continues above the new detention ponds and around the site. 11/20/06</b></p> <p><b>Safety grid (ground wires) and crushed stone continue to be installed above the new retention ponds. Grading will continue and a layer of crushed stone will be placed on surfaces. 11/20/06</b></p> <p><b>Excavations for foundation work have begun within the site. 11/20/06</b></p>	<p><b>Erosion controls may need to be adjusted as grading changes. 11/20/06</b></p> <p><b>None. 11/20/06</b></p> <p><b>Continue to add crushed stone to finished areas for stabilization. This also helps reduce exposed surfaces on site. 11/20/06</b></p> <p><b>Install a designated concrete washout area and monitor/control soil stockpiles at new excavations. 11/20/06</b></p>	<p><b>NA</b></p> <p><b>NA</b></p> <p><b>Crushed stone was added to finished areas.</b></p> <p><b>NA.</b></p>
<p><b>Erosion and sediment controls</b></p>	<p><b>Silt fence is secure and well-maintained. South and east sides are reinforced with bark mulch. 11/20/06</b></p> <p><b>The riprap sediment trap was installed and haybales are in place at the culvert inlet and outlet at the new ROW access road; no sedimentation was noted at this time. 11/20/06</b></p> <p><b>Controls remain in good</b></p>	<p><b>Continue to inspect and maintain silt fence throughout site and repair as needed. 11/20/06</b></p> <p><b>Segment 1A contractors also maintain controls here at the eastern wetland. 11/20/06</b></p> <p><b>Continue to maintain as</b></p>	<p><b>NA</b></p> <p><b>Haybales were installed at the culvert (proactively)</b></p> <p><b>NA</b></p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p><b>Erosion and sediment controls (continued)</b></p>	<p>shape in the old Zolnik driveway and new access road area. 11/20/06</p> <p>Filter fabric and haybales remain in place over and around the drain inlets in the permanent detention basins. However it appears that stormwater is pooling over them during large rain events, allowing turbid run-off to entering the storm drain system. 11/20/06</p> <p>The storm water outlet at the wetland across Carpenter Lane has standing water with settled sediment at the bottom. Wetland still contains some suspended sediment but most has settled out. 11/20/06</p> <p>Additional areas of exposed soil surfaces on site have been graded and hydroseeded with winter rye. Erosion control mats are also in place on steeper slopes. 11/20/06</p>	<p>necessary. 11/20/06</p> <p>Slopes were hydroseeded but grass cover is not expected before winter. Evaluate additional stabilization measures to reduce turbidity in stormwater. Additional or alternative controls may be needed. 11/14-11/20/06</p> <p>Haybales should be replaced/repositioned as water is escaping through. Stormwater still needs to be filtered better before leaving the site. Determine the source of turbidity, stabilize exposed soils and add controls as necessary. 11/14-11/20/06</p> <p>Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 11/20/06</p>	<p>Needs attention and evaluation.</p> <p>Needs attention and evaluation.</p> <p>Most exposed surfaces were hydroseeded.</p>
<p><b>Inland Wetland and Watercourse encroachment and mitigation</b></p>	<p>The wetland across Carpenter Lane still contains some standing turbid water but most sediment has settled out. 11/20/06</p> <p>Wetlands on east side of site were clean and well protected. 11/20/06</p>	<p>Evaluate the wetland when sediment fully settles out to determine whether sediment removal will be necessary. Several areas appear to have sediment accumulation. The definite source of turbidity needs to be identified and controlled. 11/20/06</p> <p>Continue to monitor. See segment 1a report for further information.</p>	<p>Needs attention and evaluation.</p> <p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<b>State species of concern, threatened and endangered species.</b>	<b>According to the D&amp;M plan, state-listed species are not located in this work area.</b>	<b>None 11/20/06</b>	<b>NA</b>
<b>Vegetative clearing or stabilization</b>	<p><b>Most exposed soil surfaces around the site have been hydroseeded and erosion control mats are in place on steep slopes. 11/20/06</b></p> <p><b>Any areas that will remain unworked for several weeks should be temporarily stabilized. Some areas were at final grade and crushed stone base was being installed. 11/20/06</b></p>	<p><b>Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes. Continue to monitor recently seeded area for stabilization. 11/20/06</b></p> <p><b>Continue placing seed, straw, mulch, or stone as a temporary/permanent stabilization measure to reduce exposed soil where work is not actively occurring or not expected to occur for 14 days. 11/20/06</b></p>	<p><b>NA.</b></p> <p><b>Crushed stone was placed on some finished areas.</b></p>
<b>Dewatering</b>	<p><b>Minimal dewatering was noted to remove rainwater from new foundation pits. Water was pumped into the new detention basin. Small, erosive gullies were formed as a result. 11/20/06</b></p> <p><b>Evaluate whether turbid run-off is pooling up and over the controls at the detention basin inlets. This may be the source of sediment in wetlands across Carpenter Lane. 11/20/06</b></p>	<p><b>When dewatering is required, pumping must be monitored to avoid formation of erosive gullies or increased sediment in the basins. Regrade and stabilize gullies. Try pumping water against haybales or stone to slow the velocity. 11/20/06</b></p> <p><b>Additional or alternative controls may be needed to prevent turbid water from entering the riser pipes and getting into the storm water system and wetland. 11/20/06</b></p>	<p><b>Needs attention.</b></p> <p><b>Needs evaluation.</b></p>
<b>Blasting</b>	<b>All blasting was complete as of 9/7/06.</b>	<b>None 11/20/06</b>	<b>NA</b>
<b>Spills, soils and material storage</b>	<b>Two sanitary facilities were placed adjacent/upgradient to the new detention ponds. 11/20/06</b>	<b>All sanitary facilities should be located away from inlets to the storm drain systems as well as wetlands, to further reduce the unlikely event of a spill. 11/20/06</b>	<b>Needs attention.</b>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p><b>The final stockpile created during site grading was removed along the old Zolnik driveway. This completes removal of soil from site. 11/20/06</b></p> <p><b>Spill cleanup materials were available on site and are being used and restocked as needed. 11/20/06</b></p> <p><b>A few small stockpiles resulted from the foundation excavations 11/20/06</b></p>	<p><b>The remaining soil on site will continue to be used as fill. Soils appear to be handled appropriately. 11/20/06</b></p> <p><b>Always use spill control materials when working on equipment and during refueling. 11/20/06</b></p> <p><b>Install controls for the stockpiles where necessary. 11/2006</b></p>	<p><b>Final stockpile was removed.</b></p> <p>NA</p> <p>NA</p>
<b>Additional Observations</b>	None. 11/20/06	None. 11/20/06	NA

**Next likely scheduled inspection:** Tuesday November 28, 2006

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, Stephen Herzog



**New entrance off Carpenter Lane. Additional haybales and silt fence were installed.**



**View of Carpenter Lane and retaining walls. New haybales were installed, the stone entrance was regraded, and the roadway was swept. Minor sediment tracking was noted.**



**View of entire site looking from north to south. Foundation excavations are underway.**



**Efforts were made to control the new detention basin inlet until grass cover can establish. However, it appears water is pooling over the controls during large rain events, allowing turbidity to enter the system. Additional/alternative controls are recommended.**





**Culvert inlet at the ROW access road from Beseck. Riprap & haybales were in place to reduce sedimentation.**



**A riprap sediment trap is now in place at the culvert outlet. The old ROW access road is now closed off and contractors share the Beseck entrance. Haybales were installed to control sediment.**



**Storm drain outlet across Carpenter Lane had settled sediment on the bottom with clear water leaving the pipe.**



**Some suspended sediment/turbid water was observed in the wetlands. Sediment is beginning to settle out but the area will need to be evaluated to determine if sediment removal is necessary.**