

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: December 12, 2006

Inspector: Matthew Creighton

Location: Beseck Switching Station

Rainfall: Total of 0.02” rain 12/6–12/12 with 0.02” on 12/6 (as reported by NOAA at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	All traffic leaving the site is using stone entrance on east side. Carpenter Lane had some minor sediment accumulation along the gutter. 12/12/06	Clean/sweep roadway regularly. Continue to maintain stormwater quality from the site. Gutters should be swept by hand at this time. 12/12/06	Gutters need some attention when feasible.
	Stone access pad is clean. No turbid run-off was noted during this inspection. Turbidity seems to increase with truck traffic for deliveries etc. 12/12/06	Continue to maintain stone construction entrance. Evaluate how to prevent all run-off from reaching the road. Monitor haybales and replace or reposition as needed to filter run-off. Evaluate additional containment methods. 11/20-12/12/06	Continue to evaluate.
	Minor sediment remains at the culvert under the ROW access road. It was well contained within the sediment trap. 12/12/06	This area will still require regular attention by all contractors (BSS and Segment 1A) to reduce sediment tracking. Maintain basin/ traps and haybales at the outlet when necessary. 12/12/06	Not Applicable (NA)
	The new access drive has been graded. Silt fence was removed; haybales were installed to prevent run-off. 12/12/06	Controls are intact but significant amounts of exposed soil are present upgradient. Reinforce controls or add diversions as needed. 12/12/06	Continue to monitor.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>CB liners appear to be working well. Gutter buddies are in place on the northern side of Carpenter Lane as a dam at the drop inlets to force water through the controls. However, sediment is also building in the gutters along the southern side of the road. 12/12/06</p> <p>Haybales were moved from the old Zolnik Driveway for access. The area was seeded. 12/12/06</p>	<p>Continue to monitor and maintain liners as needed. Sediment in the gutters on the southern side of the roadway should be swept by hand or gutter buddies should be added here too. 12/12/06</p> <p>Replace haybales across the driveway when feasible to slow stormwater. 12/12/06</p>	<p>Gutters need attention when feasible.</p> <p>Needs attention when feasible</p>
<p>Foundation and site construction</p>	<p>Grading onsite continues as needed. The south side of the site is at finished grade. 12/12/06</p> <p>Fence installation extended to the new entrance and a gate was installed. 12/12/06</p> <p>Excavations for foundation work continue within the site. Contractors are setting rebar and pouring concrete. 12/12/06</p>	<p>Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 12/12/06</p> <p>None. 12/12/06</p> <p>Concrete washouts are being conducted within the excavations. Monitor and control soil stockpiles at new excavations. 12/12/06</p>	<p>NA</p> <p>NA.</p> <p>Concrete is contained.</p>
<p>Erosion and sediment controls</p>	<p>Silt fence is secure and well-maintained. South and east sides are reinforced with bark mulch. 12/12/06</p> <p>Sediment was noted at the culvert in the riprap trap at the ROW access road; no sediment was noted leaving the area and was well contained. 12/12/06</p> <p>New haybales are in place across the newly graded access drive. 12/12/06</p>	<p>Continue to inspect and maintain silt fence throughout site and repair as needed. 12/12/06</p> <p>Segment 1A contractors also maintain controls here at the eastern wetland. Continue to monitor. 12/12/06</p> <p>Continue to maintain, reinforce and add controls as necessary.</p>	<p>NA</p> <p>NA</p> <p>NA at this time.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Erosion and sediment controls (continued)</p>	<p>Filter fabric and new haybales remain in place over and around the drain inlets in the permanent detention basins. However, it appears that stormwater has pooled and overtopped the controls during large rain events in the past, allowing turbid run-off to enter the storm drain. 12/5-12/12/06</p> <p>An erosive channel was noted on the detention basin slopes. This is a result of dewatering foundation excavations. 12/12/06</p> <p>The storm water outlet pipe at the wetland across Carpenter Lane has standing water with settled sediment at the bottom. Wetland contains clear standing water with a fine layer of sediment on the leaf litter. 12/5-12/12/06</p> <p>Most exposed soil surfaces on site have been graded and hydroseeded. Erosion control mats are also in place on steeper slopes. 12/12/06</p>	<p>Exposed soil remains upgradient. 12/12/06</p> <p>Evaluate additional measures during rain events to determine whether turbidity is being adequately controlled. Alternative sediment controls may still be needed. 12/12/06</p> <p>See dewatering section for more details. 12/12/06</p> <p>Haybales should be replaced/repositioned. Stormwater still needs to be filtered better before leaving the site. Determine the source of turbidity, stabilize exposed soils and add controls as necessary. 11/14-12/12/06</p> <p>Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 12/12/06</p>	<p>Continue to evaluate.</p> <p>NA.</p> <p>Needs attention and evaluation.</p> <p>NA.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>The wetland and outlet across Carpenter Lane contained clear standing water with a fine layer of sediment on the leaf litter. This may be difficult to remove but also has the potential to mix into the water column. 12/5-12/12/06</p>	<p>Several areas appear to have minor sediment accumulation. Sediment should be removed from the outlet and adjacent areas when dry. The definite source of turbidity needs to be identified and controlled. 12/5-12/12/06</p>	<p>Needs evaluation.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Wetlands on east side of site were clean and well protected. 12/12/06	Continue to monitor. See Segment 1a report for further information.	NA
State species of concern, threatened and endangered species.	According to the D&M plan, state-listed species are not located in this work area.	None 12/12/06	NA
Vegetative clearing or stabilization	<p>Most exposed soil surfaces around the site have been hydroseeded and erosion control mats are in place on steep slopes. 12/12/06</p> <p>Any areas that will remain unworked for several weeks should be temporarily stabilized. Some areas were at final grade and crushed stone base was installed. 12/12/06</p>	<p>Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes. all areas for stabilization. 12/12/06</p> <p>Continue placing seed, straw, mulch, or stone as a temporary or permanent stabilization measure to reduce exposed soil where work is not actively occurring or not expected to occur for more than 14 days. 12/12/06</p>	<p>NA.</p> <p>NA</p>
Dewatering	<p>Some dewatering was needed to remove rainwater from new foundation pits. Water was pumped into the new detention basin. Small erosive gullies were formed as a result. 11/20-12/12/06</p> <p>Evaluate whether turbid run-off is overtopping the controls at the detention basin inlets. This may be the source of sediment in the wetland across Carpenter Lane. 11/20-12/12/06</p>	<p>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- 12/12/06</p> <p>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 11/20-12/12/06</p>	<p>Needs attention when feasible.</p> <p>Needs observation and evaluation during a heavy rain event.</p>
Blasting	All blasting was complete as of 9/7/06.	None 12/12/06	NA
Spills, soils and material storage	The two sanitary facilities placed adjacent/upgradient to the new	None. 12/12/06	Sanitary facilities were moved.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Spills, soils and material storage continued	<p>detention ponds have been moved away from drainage structures. 12/12/06</p> <p>All remaining soil on site will be used as fill in construction. 12/12/06</p> <p>A few small stockpiles resulted from the foundation excavations. 11/20-12/12/06</p> <p>Spill cleanup materials were available on site and are being used and restocked as needed. 12/12/06</p> <p>A drill rig from Seg. 1A was being repaired on site. Spill controls were being used and the area was clean when repairs were complete. 12/12/06</p>	<p>Soils appear to be handled appropriately. 12/12/06</p> <p>Install controls for the stockpiles where needed. 11/20-12/12/06</p> <p>Always use spill control materials when working on equipment and during refueling. 12/12/06</p> <p>Continue to use spill controls when working on equipment. 12/12/06</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>Proactive spill controls used during equipment maintenance.</p>
Additional Observations	None. 12/12/06	None. 12/12/06	NA

Next likely scheduled inspection: Tuesday December 19, 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 at final grade with haybale barrier in place.



View of Carpenter Lane and retaining walls. Minor sediment accumulation was noted in the gutters on both sides of the roadway. This should be swept up by hand to prevent entry into the storm drain system.



View of site looking from east to west. Foundation installation continues.



Some grass growth was observed on the seeded slopes of the detention basins. Additional/alternative controls are still recommended to prevent turbid water from pooling into the inlet.



Replace haybales across the old Zolnik driveway (they had been moved for access). Soils have been graded and seeded.



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



Storm drain outlet across Carpenter Lane contained settled sediment with clear standing water at the outlet pipe. The haybale configuration could still use some adjustment for better coverage.



Sediment has settled out in the wetlands across Carpenter Lane, leaving a fine layer on the leaf litter. This may be difficult to remove while standing water is present but it may continue to get mixed into the water column during storms. Evaluate whether any can be removed without causing further harm to wetland.