

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 6, 2007

Inspector: Matthew Creighton

Location: Beseck Switching Station

Rainfall: 2.64” of precipitation was recorded in the week prior to inspection, with 2.61” of the total reported on 3/2 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	All traffic to the site is using the driveway on the east side. Recent improvements to the stone access pad and detention swale have reduced suspended sediment in stormwater; no sediment was noted leaving the site during the inspection. 3/6/07	Continue to monitor and evaluate during larger storm events. Adjust controls as necessary. Efforts have been good and freezing temperatures have helped to stabilize soils. 3/6/07	Adjust controls if necessary. Needs regular attention.
	Haybales at the edge of the access are degraded. 3/6/07	Replace haybales before the next rain or potential run-off event. 3/6/07	Needs attention. Contractors stated haybales would be replaced shortly.
	Gutters had accumulated sand from town snow removal and some minor sedimentation from turbid run-off from the site. 2/27-3/6/07	Clean/sweep roadway regularly, including the gutters by hand if necessary. 2/27-3/6/07	Provide regular attention.
	The stone water bar across the Old Zolnik driveway had sediment accumulation along the edge, indicating it was filtering run-off during the heavy rain. Haybales remain at the entrance but should be extended	Continue to monitor controls for effectiveness, especially during storms and ground thaw. Add/adjust controls as necessary. New controls appear to be working effectively. Remove sediment from controls to	Controls appear to be effective. Needs some additional attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Access roads and adjacent roadways (continued)</p>	<p>to encompass the extent of the access. Some minor sedimentation was noted. 3/6/07</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. 3/6/07</p> <p>Even though sediment accumulation is partially due to town sanding activities, CB liners along Carpenter Lane should be cleaned. Gutter buddies (filter socks) have been replaced. 3/6/07</p> <p>Standing water has evaporated or filtered out of the sediment trap at the culvert under the ROW access road. Sediment appears contained. 3/6/07</p>	<p>maintain effectiveness when necessary. Extend haybales. 3/6/07</p> <p>CB will be sealed during final grading. Continue to monitor existing controls. 3/6/07</p> <p>Clean and maintain liners. Continue to replace gutter buddies as weather permits and remove only for plowing. 3/6/07</p> <p>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. 3/6/07</p>	<p>Not Applicable (NA)</p> <p>Needs regular attention. Gutter buddies have been replaced.</p> <p>NA</p>
<p>Foundation and site construction</p>	<p>Minor grading continues as needed. The majority of the site is at finished grade. 3/6/07</p> <p>Excavations for 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. 3/6/07</p>	<p>Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 3/6/07</p> <p>Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 3/6/07</p>	<p>NA</p> <p>NA</p>
<p>Erosion and sediment controls</p>	<p>Perimeter silt fence along the east side of the site is secure and well-maintained. 3/6/07</p>	<p>Continue to inspect and maintain silt fence throughout site and repair as needed. 3/6/07</p>	<p>NA</p>

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	<p>Plows have knocked down the silt fence along Carpenter Lane. Adjacent area is stable, no erosion noted. Frozen conditions prevent repairs. 2/27-3/6/07</p> <p>The site entrance (west side) remains closed and new controls remain in place to reduce turbid run-off from leaving site. Controls appear to be working, no run-off noted after heavy rains. Haybales were in place but not fully across the entrance. 3/6/07</p> <p>Filter fabric and numerous haybales remain in place over and around the drain inlets in the permanent detention basins. Sediment buildup was noted around some haybales but doesn't appear to have entered the stormwater system. 3/6/07</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 majority of ice cover has melted within the culvert outlet. Water flowing into the wetland was clear and free of sediment. In general, sediment from the site is very fine and difficult to filter but increased efforts on site appear to have helped. 3/6/07</p>	<p>Silt fence needs repair to the extent feasible. (however, adjacent areas are not exposed or contributing to run-off). Consider using filter rolls as an alternative. 3/6/07</p> <p>Continue to monitor controls for effectiveness. Stabilize remaining areas when feasible. Extend haybales to fully filter and contain run-off. See Access Roads and Adjacent Roadways. 3/6/07</p> <p>Continue to monitor and replace haybales as needed within the detention basins. Removed sediment buildup from controls to maintain effectiveness as needed. See dewatering section for more information. 3/6/07</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 source. Good efforts were made on site to reduce run-off. 3/6/07</p>	<p>Repair if necessary.</p> <p>NA.</p> <p>NA – Controls working effectively.</p> <p>The quality of stormwater was improved as good efforts were made on site.</p>
Inland Wetland and	Clear water was leaving	Several areas have	Continue to evaluate

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<p>Watercourse encroachment and mitigation</p>	<p>the outlet across Carpenter Lane. Some of the ice cover in the wetlands has melted. Small channels of water can be observed through the ice and appear free of sediment. 3/6/07</p> <p>A timber mat staging area is in place in the wetlands on east side of site. 3/6/07</p>	<p>sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 3/6/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/23-3/6/07</p> <p>These activities are covered in the Segment 1a inspection report. 3/6/07</p>	<p>and add controls as needed. Improvements were made at the source of the stormwater on site</p> <p>Not jurisdictional to this D&M plan.</p>
<p>State species of concern, threatened and endangered species.</p>	<p>According to the D&M plan, state-listed species are not located in this work area.</p>	<p>None. 3/6/07</p>	<p>NA</p>
<p>Vegetative clearing or stabilization</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. 3/6/07</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. 3/6/07</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. 3/6/07</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). 3/6/07</p>	<p>NA</p> <p>NA</p>
<p>Dewatering (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</p>	<p>When dewatering is needed to remove rainwater from foundation pits, the turbid water is being pumped into two frac tanks on site in order to settle. Clean water will be released to the controlled CBs within the detention basins onsite. 3/6/07</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</p>	<p>Continue to evaluate controls for effectiveness.</p>

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<i>component of the system is reaching capacity.)</i> Dewatering (continued)	Dewatering has been necessary this week due to heavy rain. 3/6/07 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. 3/6/07	overwhelming controls and forcing sediment, from the stormwater system into the wetlands at the outlet. 3/6/07 Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 3/6/07	NA
Blasting	All blasting was complete as of 9/7/06.	None. 3/6/07	NA
Spills, soils and material storage	All remaining soil on site will be used as fill in construction activities. 3/6/07 A few small stockpiles resulted from the foundation excavations. 11/20/06-3/6/07 Spill cleanup materials were available on site and are being used and restocked as needed. 3/6/07	Soils appear to be handled appropriately. 3/6/07 Install controls for the stockpiles where/if needed. 11/20/06-3/6/07 Always use spill control materials when working on equipment and during refueling. 3/6/07	NA NA NA
Additional Observations	A line of haybales was installed across the old ROW access to prevent unauthorized use (eg ATVs) and potential run-off. 3/6/07	Monitor haybales and replace as needed. 3/6/07	Haybales installed.

Next likely scheduled inspection: Tuesday March 13, 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 entrance are degraded and should be replaced. This was going to occur shortly. No run-off was noted at the time.



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 could use maintenance.



Haybales were placed across the closed site entrance (west side) in an effort to reduce turbid run-off from the site. Extend the haybales to encompass the access.



Haybales and controls remain in place at the inlet of the detention basin. Run-off appears to be contained effectively.



Another view of the closed site entrance. The recently installed water bar appears to be effective as sediment accumulation was noted at the edge of the stone.



View of the culvert under the new access road. Turbid water has filtered out of the trap and sediment appears contained.



Storm drain outlet across Carpenter Lane has clear water flowing through the haybales. The majority of ice cover in the culvert and wetlands had melted. Efforts on site appears to have retained sediment.



Clear 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.