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 9, 2007**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **Total of 1.60" rain from 1/3–1/8/07 with 1.12" on 1/8/07 (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 continues to have some sediment accumulation along the gutter. 12/12/06-1/9/07**	**Clean/sweep roadway regularly. Continue to maintain stormwater quality from the site. Gutters still need to be swept by hand. 12/12/06-1/9/07**	**Gutters still need attention.** *(As of 1/12/07 contractors stated that gutters were swept***)**
	Stone access pad was clean; stormwater leaving the site was fairly clear past the final haybale. Haybales located at the corner of the entrance pond turbid water and do not fi1ter run-off effectively during heavy rains. 1/9/07	**Continue to maintain stone construction entrance. Evaluate how to prevent all stormwater run-off from reaching Carpenter Lane. Monitor haybales and replace or reposition as needed to filter run-off. Evaluate additional containment methods. 11/20/06-1/9/07**	**Needs evaluation.** *(As of 1/12/07, contractors stated that the pad will be extended further into the site with a small detention area.)*
	Minor amounts of sediment were observed at the culvert under the ROW access road. All sediment appears well contained within the sediment trap. 1/9/07	**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. 1/9/07**	**Not Applicable (NA)**
	Controls across the new access drive were removed but exposed soil	**Install controls if feasible or add diversions as needed. Continue to**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways (continued)	**remains upgradient of driveway. No run-off noted. 12/19-1/9/07**	**monitor for run-off. 12/19-1/9/07**	
	Catch basin liners appear to be working. 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. Some sediment was accumulating on the liner and is still in the gutters. 1/9/07	**Continue to monitor and maintain liners as needed. Sediment in the gutters along the roadway should be swept by hand as street sweepers cannot reach it adequately. 12/12/06-1/9/07**	**Needs attention. (***As of 1/12/07, contractors stated that catch basin liners were cleaned along with the gutters)*
	New haybales were installed across the old Zolnik Driveway. 1/9/07	**Continue to replace and maintain haybales across the driveway to slow stormwater. 1/9/07**	**New haybales installed.**
Foundation and site construction	**Some grading continues. The majority of the site is at finished grade. 1/9/07**	**Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 1/9/07**	**NA**
	Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors are setting rebar, pouring concrete, and regrading soils. 1/9/07	**Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new excavations as needed. 1/9/07**	**NA**
Erosion and sediment controls	**Silt fence at site perimeter is secure and well-maintained. South and east sides are reinforced with bark mulch. 1/9/07**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 1/9/07**	**NA**
	Stormwater dewatered from excavations is now pumped to a frac tank and allowed to settle before being released back to the site. However, the run-off is picking up sediment again before reaching the detention basin. 1/9/07	**The clean water from the frac tanks should be pumped directly to the controls at the basin inlets to avoid becoming turbid again. 1/9/07**	**A frac tank is now being used to contain and settle turbid dewatering discharge. Continue to improve method.**
	Filter fabric and haybales remain in place over and	**Continue to monitor and replace haybales as**	**Haybales were added to detention basins.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Erosion and sediment controls (continued)	**around the drain inlets in the permanent detention basins. New haybales have been added to the detention basins' inlets.**	**needed within the detention basins. See dewatering section for more information. 1/9/07**	
	The storm water outlet pipe at the wetland across Carpenter Lane has several layers of new haybales to help filter turbid water. The sediment is extremely fine and difficult to filter. Haybales were not 100% effective but were an improvement. 1/9/07	**Continue to monitor carefully and replace haybales as needed at the storm drain outlet. Stormwater should be contained and filtered before leaving the site. Stabilize exposed soils and add controls as necessary. Always closely monitor dewatering activities. See dewatering section. 1/9/07**	**Haybales were added at the outlet pipe and within detention basins. (***As of 1/12/07 contractors stated a new plan for retaining as much dewatering discharge and stormwater on site as possible***)**
	Most exposed soil surfaces around site are graded and hydroseeded. Erosion control mats are also in place on steeper slopes. 1/9/07	**Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 1/9/07**	**NA**
Inland Wetland and Watercourse encroachment and mitigation	**The wetland and outlet across Carpenter Lane again contained turbid water/suspended sediment after another 1" rain event the prior day. New haybales were added and additional measures were being used on site. The sediment from the site is extremely fine and difficult to filter. 1/9/07**	**Several areas have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 1/9/07. All sources of sediment in stormwater from the site should continue to be identified and controlled. 12/5/06-1/9/07**	**New controls added at the inlet and onsite. (***See dewatering section for new plan to be implemented***.)**
	Wetlands on east side of site were clean and well protected. 1/9/07	**Continue to monitor. This area is also covered by the Segment 1a inspections. 1/9/07**	**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. 1/9/07**	**None. 1/9/07**	**NA**
Vegetative clearing or stabilization	**Most exposed soil surfaces around the site have been hydroseeded and erosion control mats**	**Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes.**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	are in place on steep slopes. 1/9/07	**1/9/07**	
	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 at work trailer locations. 1/9/07	**Continue placing seed, straw, mulch, or stone as a temporary or permanent stabilization measure 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). 1/9/07**	**NA**
Dewatering	**Dewatering was needed to remove rainwater from new foundation pits. Turbid water was now being pumped into a frac tank for filtration to settle out. It was released back to the site where it regained sediment and turbidity as it flowed overland and into the detention basins. Water leaving the frac tank was clear but was turbid again by the time it left site through the CB. 1/9/07**	**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. 1/9/07**	**A frac tank was added to settle out storm-water. Methods still need improvement. (***As of 1/12/07 contractors stated that 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. If necessary, a second frac tank will be installed***.)**
	Small eroded gullies were formed on the basin slopes as a result of dewatering. 11/20/06-1/9/07	**Regrade slopes and stabilize as needed. 1/9/07**	**Needs attention when feasible. (***As of 1/12/07, contractor stated that washouts would be repaired***.)**
	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. 1/9/07	**Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 1/9/07**	**NA**
Blasting	**All blasting was complete as of 9/7/06.**	**None. 1/9/07**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Spills, soils and material storage	**All remaining soil on site will be used as fill for construction activities. 1/9/07** **A few small stockpiles resulted from the foundation excavations. 1/9/07** **Spill cleanup materials were available on site and are being used and restocked as needed. 1/9/07**	**Soils appear to be handled appropriately. 1/9/07** **Install controls for the stockpiles where/if needed. 11/20/06-1/9/07** **Always use spill control materials when working on equipment and during refueling. 1/9/07**	**NA** **NA** **NA**
Additional Observations	**None. 1/9/07**	**None. 1/9/07**	**NA**

Next likely scheduled inspection: **Tuesday January 16, 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, Stephen Herzog*

New 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 noted in the gutters. Run-off was fairly clear as it was observed flowing past the final controls at the site entrance.

Dewatering from foundation pits is being pumped into a frac tank to settle, and then released to the site. However, this allows run-off to pick up sediment again. Clean water could be pumped directly to the controlled CB at a low flow rate so as not to overtake controls.

Additional haybales have been installed at the detention basin inlet. Continue to monitor controls and change as needed. Contractors state (as of 1/12/07) that they will monitor water levels in basins and reallocate as necessary until the site is stable.

Photos by BSC Group

Haybales were replaced across the old Zolnik driveway.

View of the culvert under the new access road. Minor amounts of sediment appear contained within the trap. Beseck and Seg. 1A contractors are jointly sharing the access road.

Another 1" rainstorm the previous day has resulted in turbid water flowing through the outlet pipe across Carpenter Lane. Haybales have been replaced and water flowing through the controls had very little sediment by the time it reached the wetland.

The wetlands across Carpenter Lane remain turbid after another 1" rain event. The sediment is extremely fine and difficult to filter and will take time to settle out of the water column. The addition of new haybales and efforts on site are beginning to improve the run-off quality. Sediment removal may be necessary in the future.

Photos by BSC Group