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 26, 2006**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **Total of 1.87" rain 12/19–12/26 with 1.15" on 12/23 (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. 12/12-12/26/06	Clean/sweep roadway regularly. Continue to maintain stormwater quality from the site. Gutters still need to be swept by hand. 12/12-12/26/06	Gutters still need attention.
	Stone access pad is clean but turbid run-off to the roadway and catch basins was noted during this inspection. Haybales located at the corner of the entrance do not filter/ contain run-off effectively. Turbidity seems to increase with truck traffic for deliveries etc. 12/26/06	Continue to maintain stone construction entrance, and 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. 11/20-12/26/06	Needs evaluation/ alternatives to contain water on-site.
	Minor amounts of turbid water were observed at the culvert under the ROW access road. It appears well contained within the sediment trap. 12/26/06	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. 12/26/06	Not Applicable (NA)
	Controls across the new access drive were removed but exposed soil remains upgradient. 12/19-12/26/06	Install controls if feasible or add diversions as needed. Continue to monitor for run-off. 12/19-12/26/06	Continue to monitor.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways (continued)	**Catch basin (CB) 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. 12/26/06**	**Continue to monitor and maintain liners as needed. Sediment in the gutters along the roadway should be swept by hand. 12/12-12/26/06**	**NA at this time.**
	Haybales had been moved from the old Zolnik Driveway. 12/12-12/26/06	**Replace haybales across the driveway to slow stormwater. 12/12-12/26/06**	**Needs attention.**
Foundation and site construction	**Some grading continues. The majority of the site is at finished grade. 12/26/06**	**Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 12/26/06**	**NA**
	Excavations for foundation work continue within the site, resulting in small stockpiles. Contractors are setting rebar and pouring concrete. 12/26/06	**Concrete washouts are being conducted within the excavations. Monitor and control soil stockpiles at new excavations as needed. 12/26/06**	**NA at this time.**
Erosion and sediment controls	**Silt fence at site perimeter is secure and well-maintained. South and east sides are reinforced with bark mulch. 12/26/06**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 12/26/06**	**NA**
	Turbid water was noted at the culvert in the riprap trap at the ROW access road; no sediment was observed leaving this area. 12/26/06	**Segment 1A contractors also maintain controls here at the eastern wetland. Continue to monitor. 12/26/06**	**NA**
	Haybales had been removed from the newly graded access drive. 12/19-12/26/06	**Monitor and add controls as necessary. Exposed soil remains upgradient. 12/19-12/26/06**	**Continue to monitor.**
	Filter fabric and haybales remain in place over and around the drain inlets in the permanent detention basins. However, stormwater was	**Implement additional/ alternative measures and evaluate during rain events to determine whether turbidity is being adequately controlled.**	**Needs evaluation/ alternatives to filter water.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Erosion and sediment controls (continued)	**dewatered from new excavations and has pooled and overtopped the controls in the eastern basin, allowing turbid run-off to enter the storm drain. 12/26/06**	**Dewatering discharge may also require additional filtration and containment prior to reaching the basin. See dewatering section for more information. 12/26/06**	
	The storm water outlet pipe at the wetland across Carpenter Lane had turbid water flowing beyond the degraded haybales and into the wetland. Haybales were not effectively filtering the stormwater. Dewatering onsite was halted during the inspection and more controls were ordered. 12/26/06	**Haybales should be replaced/repositioned. Stormwater still needs to be better filtered/ contained before leaving the site. Stabilize exposed soils and add controls as necessary. Always monitor dewatering activities. 12/26/06**	**Needs immediate attention and evaluation.**
	Most exposed soil surfaces on site have been graded and hydroseeded. Erosion control mats are also in place on steeper slopes. 12/26/06	**Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 12/26/06**	**NA**
Inland Wetland and Watercourse encroachment and mitigation	**The wetland and outlet across Carpenter Lane again contained turbid water/suspended sediment after a period of no incidents. 12/26/06**	**Several areas have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06. The different sources of sediment in the stormwater from the site should be identified and controlled. 12/5-12/26/06**	**Needs evaluation.**
	Wetlands on east side of site were clean and well protected. 12/26/06	**Continue to monitor. This area is also covered by the Segment 1a inspections. 12/26/06**	**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 12/26/06**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Vegetative clearing or stabilization	**Most exposed soil surfaces around the site have been hydroseeded and erosion control mats are in place on steep slopes. 12/26/06**	**Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes. 12/26/06**	**NA**
	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. 12/26/06	**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). 12/26/06**	**NA at this time- continue to monitor.**
Dewatering	**Dewatering was needed to remove rainwater from new foundation pits. Turbid water was pumped into the eastern detention basin, overwhleming the controls at the inlet. Pumping was halted until the water subsided and better controls were in place. This may be one of the major sources of suspended sediment and turbidity to the wetland across Carpenter Lane. 12/26/06**	**When dewatering is required, pumping must be monitored to avoid formation of gullies, overwhelming controls, or increasing sediment in the basins. Additional or alternative controls are needed to prevent turbid water from entering the riser pipes and getting into the storm water system and wetland. Consider alternatives for containing and filtering dewatering discharge before it reaches the basin (i.e. using a vacuum truck to remove water from the excavations). 12/26/06**	**Needs immediate attention.**
	Small eroded gullies were formed on the basin slopes as a result of dewatering. 11/20-12/26/06	**Regrade and stabilize gullies. Try pumping water against haybales, sand bags, or stone to slow the velocity. 11/20-12/26/06**	**Needs attention when feasible.**
	Muddy River, located a distance down gradient from the wetland across Carpenter Lane is also being monitored. At this time no turbidity from	**Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as**	**NA at this time.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	the site appears to have reached Muddy River. 12/26/06	**needed. 12/26/06**	
Blasting	**All blasting was complete as of 9/7/06.**	**None 12/26/06**	**NA**
Spills, soils and material storage	**All remaining soil on site will be used as fill in construction. 12/26/06** **A few small stockpiles resulted from the foundation excavations. 11/20-12/26/06** **Spill cleanup materials were available on site and are being used and restocked as needed. 12/26/06**	**Soils appear to be handled appropriately. 12/26/06** **Install controls for the stockpiles where needed. 11/20-12/26/06** **Always use spill control materials when working on equipment and during refueling. 12/26/06**	**NA** **NA** **NA**
Additional Observations	**None. 12/26/06**	**None. 12/26/06**	**NA**

Next likely scheduled inspection: **Tuesday January 2, 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 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. Turbid water was observed flowing past the controls at the site entrance.

Some grass has become established in the western detention basin. No water was pumped into this basin.

Additional/alternative controls are still recommended. Turbid water from dewatering activities has overtopped the controls at the inlet. Consider additional filtration/containment for dewatering discharge as well.

Photos by BSC Group

Replace haybales across the old Zolnik driveway. Adjacent areas have been graded and seeded.

View of the culvert under the new access road. Some minor amounts of turbid water were noted but appears contained within the trap. Beseck and Seg. 1A contractors are jointly sharing the access road.

Storm drain outlet across Carpenter Lane again had turbid water flowing through the outlet pipe and past the degraded haybales into the wetland. New haybales and alternative controls on-site are needed.

The wetlands across Carpenter Lane again contain turbid run-off from the site after several weeks of no incidents. Sediment removal may be necessary once the sediment settles out, and storm water subsides.

Photos by BSC Group