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 28, 2006**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **Total of 1.97" rain from 11/21 – 11/28 with 1.93" on 11/23 (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 was being hand swept during the inspection. 11/28/06	Clean/sweep roadway regularly. Continue to monitor stormwater leaving the site; replace and add more controls as needed. Clean gutters by hand as needed. 11/28/06	Roadway was swept.
	Stone access pad is mostly clean of sediment. Some minor amounts of turbid run-off were noted despite the additional haybales and controls here. Turbidity seems to increase with truck traffic for deliveries etc. 11/28/06	Continue to maintain stone construction entrance. Determine 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. 11/20-11/28/06	Continue to evaluate.
	The old ROW access road is now closed off and the Beseck entrance will be used jointly with segment 1A contractors. The sediment trap and controls are in place. 11/28/06	This area will still require regular attention by all contractors to reduce sediment tracking. Maintain basin/traps and haybales at the outlet. 11/28/06	Additional stone was placed on access.
	The new access drive was being filled and graded at this time. Silt fence is in place but may need reinforcement during rain	Controls are intact but significant amounts of exposed soil are present upgradient. Reinforce/ maintain as needed.	Not Applicable (NA)

Areas of Inspection	Observation	Recommended Action	Corrected Action
	events. 11/28/06		
	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. 11/28/06	**Continue to monitor and maintain liners as needed. 11/28/06**	**NA**
Foundation and site construction	**Grading onsite continues in the north. The south side of the site is at finished grade. 11/28/06**	**Erosion controls may need to be adjusted as grading changes. 11/28/06**	**NA**
	Fence installation continues above the new detention ponds and around the site. 11/28/06	**None. 11/28/06**	**NA**
	Excavations for foundation work have begun within the site. Contractors are setting rebar and preparing for pouring concrete. 11/28/06	**Install a designated concrete washout area and monitor/control soil stockpiles at new excavations 11/20-11/28/06**	**NA.**
Erosion and sediment controls	**Silt fence is secure and well-maintained. South and east sides are reinforced with bark mulch. 11/28/06**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 11/28/06**	**NA**
	Sediment trap and haybales are in place at the culvert at the ROW access road; no sedimentation noted. 11/28/06	**Segment 1A contractors also maintain controls here at the eastern wetland. 11/28/06**	**NA**
	Silt fence and haybales are in place in the new access road/Old Zolnik driveway area. 11/28/06	**Continue to maintain and reinforce as necessary, especially as filling and grading is occurring here. 11/28/06**	**NA**
	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	**Evaluate additional stabilization measures to reduce turbidity in stormwater. Additional or alternative controls may be needed. 11/28/06**	**Needs evaluation. Grass growth noted.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Erosion and sediment controls (continued)	**entering the storm drain system. Some grass growth was noted on slopes. 11/28/06**		
	The storm water outlet 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.11/28/06	**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. 11/14-11/28/06**	**Needs attention and evaluation.**
	Most exposed soil surfaces on site have been graded and hydroseeded. Erosion control mats are also in place on steeper slopes. Some grass growth was noted due to the warmer weather. 11/28/06	**Continue to temporarily stabilize any remaining areas as soon as possible. Monitor areas for erosion and run-off. 11/28/06**	**Grass growth noted.**
Inland Wetland and Watercourse encroachment and mitigation	**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. 11/28/06**	**Several areas appear to have minor sediment accumulation. It will be difficult while standing water is present, but evaluate an effective way to remove sediment without creating further impacts. The definite source of turbidity needs to be identified and controlled11/28/06**	**Needs evaluation. Sediment in outlet pipe and wetland has settled out.**
	Wetlands on east side of site were clean and well protected. 11/28/06	**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 11/28/06**	**NA**
Vegetative clearing or stabilization	**Most exposed soil surfaces around the site have been hydroseeded and erosion control mats are in place on steep**	**Place hay mulch (or similar) for temporary stabilization, especially on detention basin slopes. Continue to monitor**	**Seed growth has been noted on hydroseeded areas.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	slopes. Grass growth has been noted in many areas around the site following the warm weather. 11/28/06	**recently seeded area for stabilization. 11/28/06**	
	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. 11/28/06	**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. 11/28/06**	**NA**
Dewatering	**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. 11/20-11/28/06**	**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- 11/28/06**	**Needs attention.**
	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. 11/20-11/28/06	**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 11/20-11/28/06**	**Needs evaluation.**
Blasting	**All blasting was complete as of 9/7/06.**	**None 11/28/06**	**NA**
Spills, soils and material storage	**Two sanitary facilities were placed adjacent/ upgradient to the new detention ponds. 11/20-11/28/06**	**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. 11/20-11/28/06**	**Needs attention.**
	All remaining soil on site will be used as fill in construction. 11/28/06	**Soils appear to be handled appropriately. 11/28/06**	**NA.**
	A few small stockpiles resulted from the	**Install controls for the stockpiles where**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	foundation excavations. 11/20-11/28/06 **Spill cleanup materials were available on site and are being used and restocked as needed. 11/28/06**	**necessary. 11/20-11/28/06** **Always use spill control materials when working on equipment and during refueling. 11/28/06**	**NA**
Additional Observations	**None. 11/28/06**	**None. 11/28/06**	**NA**

Next likely scheduled inspection: **Tuesday December 5, 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 is being filled and graded.

View of Carpenter Lane and retaining walls. Even with recently Installed, additional controls, minor amounts of turbid-runoff were still noted leaving the site

View of entire site looking from south to north. Work on foundations continues.

Some grass growth was noted on the seeded slopes of the detention basins due to the warm weather. Additional/alternative controls are still recommended to protect the inlet as turbid water may pool over and into the system.

Photos by BSC Group

Grass growth noted on detention basin slopes due to the warmer weather. Continue to monitor for stabilization.

View of the culvert under the new access road. Haybales are still in place and sedimentation was not noted. Beseck and 1A contractors are sharing the joint access road.

Storm drain outlet across Carpenter Lane contained settled sediment with clear water standing water at the pipe.

Sediment has completely settled out in the wetlands across Carpenter Lane. A fine layer of sediment has accumulated 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 what can be removed without causing further impact.

Photos by BSC Group