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 27, 2007**

Inspector: **Matthew Creighton**

Location: **Beseck Switching Station**

Rainfall: **0.35" of precipitation was recorded in the week prior to inspection, with 0.22" of the total reported on 3/24(NOAA data at Meriden, CT).**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	All traffic entering the site is using the entrance on the west side & exiting the site using the driveway on the east side. 3/27/07	Continue to monitor and evaluate during larger storm events. 3/27/07	Not Applicable (NA) West side entrance open.
	The stone access east of Beseck remains in place to reduce tracking to the main pad. 3/27/07	Continue to maintain and work out schedule with 1A contractors to share responsibility. 3/27/07	NA
	The sediment trap at the culvert under the ROW access road is dry and all sediment appears contained. 3/27/07	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. 3/27/07	NA
	The haybales at the edge of the eastern site exit have been replaced with new bales. 3/27/07	Continue to monitor and adjust controls and replace haybales as needed. 3/27/07	New haybales installed at site exit.
	Some turbid water was noted ponding at the haybales on the site exit, however the majority of the sediment was filtering out before flowing off-	Small stone check dams are also suggested along Carpenter Ln. to help filter run-off before it reaches CBs. Add controls as needed. 3/20-	Needs regular attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	site. 3/27/07	**3/27/07**	
Access roads and adjacent roadways (continued)	**Gutters contained accumulated sand from town snow removal and some sedimentation from turbid run-off from the site. (noted since 2/27/07) Crews removed larger sediment piles by hand. 3/27/07**	**Continue to clean/sweep roadway regularly, including the gutters by hand if necessary. 3/27/07**	**Larger sediment deposits had been removed by hand but needs regular attention.**
	CB liners and gutter buddies (filter socks), along Carpenter Lane, have been replaced. 3/27/07	**Clean and maintain liners as needed. Continue to replace gutter buddies as weather permits and remove only for plowing. 3/27/07**	**Silt liners cleaned and gutter buddies replaced but needs regular attention.**
	Water bars installed across the top of the closed west entrance were removed and the entrance reopened; no sediment was noted leaving the entrance during the inspection. 3/27/07	**Continue to monitor and evaluate during larger storm events. Adjust controls as necessary. Area appears stable. 3/27/07**	**NA**
	Haybales remain along both sides of the entrance. Stone at the entrance has been cleaned. 3/27/07	**Controls appear to be helping but continue to monitor entrance for run-off and replace haybales as needed. 3/27/07**	**NA**
	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. 3/27/07	**CB will be sealed during final grading. Continue to monitor existing controls. 3/27/07**	**NA**
Foundation and site construction	**Minor grading continues as needed. The majority of the site is at finished grade. 3/27/07**	**Erosion controls may need to be adjusted as grading changes, especially at catch basins on site. 3/27/07**	**NA**
	Excavations for foundation work continue within the site, resulting in small soil stockpiles. Contractors	**Concrete washouts are being conducted within the excavations. Continue to monitor and control soil stockpiles at new**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	are setting rebar, pouring concrete, and regrading soils. Chain link fence installation is almost complete. 3/27/07	**excavations as needed. 3/27/07**	
Erosion and sediment controls	**Perimeter silt fence along the east side of the site is secure and well-maintained. 3/27/07**	**Continue to inspect and maintain silt fence throughout site and repair as needed. 3/27/07**	**NA**
	Plows have knocked down the silt fence along Carpenter Lane. Adjacent area is stable, no erosion noted. Frozen conditions prevent repairs. 2/27-3/27/07	**Silt fence needs repair to the extent feasible. (however, adjacent areas are not exposed or contributing to run-off). 3/27/07**	**Repair if necessary.**
	The site entrance (west side) has been reopened. Some controls remain in place to reduce turbidity in the run-off leaving site 3/27/07	**Continue to monitor controls for effectiveness. Stabilize remaining areas when feasible. See Access Roads and Adjacent Roadways. 3/27/07**	**NA**
	Filter fabric and numerous haybales remain in place over and around the drain inlets in the permanent detention basins. Sediment accumulation was noted around some haybales but doesn't appear to have entered the stormwater system. 3/27/07	**Continue to monitor and replace haybales as needed within the detention basins. Removed sediment from controls to maintain effectiveness as needed. See dewatering section for more information. 3/27/07**	**NA**
	The storm water outlet pipe at the wetland across Carpenter Lane has several layers of haybales in place to help filter turbid water. Snow and ice within the wetlands has melted and spring peepers can be heard throughout the wetland. Water within the outlet and flowing into the wetlands was clear. In general, sediment from	**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. Stone check dams along Carpenter Ln. should be considered to**	**The quality of stormwater was improved from previous week as good efforts were made on site to filter all stormwater before entering wetlands.**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	the site is very fine and difficult to filter but increased efforts on site appear to have helped. 3/27/07	**help reduce turbid run-off from entering the CBs. 3/27/07**	
	As part of the Segment 2a ROW clearing, contractors have removed the hand-felled trees within this wetland that were on top of the haybales at the outlet. 3/27/07	**See Segment 2a reports for more information on wetland clearing. Haybales remain intact. 3/27/07**	**Not jurisdictional to this D&M plan.**
Inland Wetland and Watercourse encroachment and mitigation	**Clear water was observed leaving the outlet across Carpenter Lane and entering wetlands. Turbid water appears to be filtered before leaving the haybales at the site exit and entering CBs with recently cleaned controls. 3/27/07**	**Several areas in the wetland have sediment accumulation. Sediment should be removed from the outlet and adjacent areas when water levels recede 12/26/06- 3/27/07. It will be evaluated whether the accumulation justifies the minor disturbance required to remove it. 1/23-3/27/07**	**Continue to evaluate and add controls as needed.**
	A timber mat staging area is in place in the wetlands on east side of site. Foundation was poured. 3/27/07	**These activities are covered in the Segment 1a inspection report. 3/27/07**	**Not jurisdictional to this D&M plan.**
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. 3/27/07**	**NA**
Vegetative clearing or stabilization	**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. 3/27/07**	**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. 3/27/07**	**NA**
	Erosion control mats are	**Continue to reduce areas**	**NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
	in place on steep slopes. Some areas were at final grade and crushed stone base was installed at work trailer locations. 3/27/07	**of exposed soil where work is not actively occurring or not expected to occur for more than 14 days (including soil stockpiles). 3/27/07**	
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 component of the system is reaching capacity.)*	**Dewatering discharge from the foundation excavations was observed being pumped to the frac tanks during this inspection. 3/27/07** **When dewatering is required turbid water is pumped into two frac tanks on site in order to settle. Clean water is released to the controlled CBs within the detention basins onsite. 3/27/07** **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. 3/27/07**	**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. 3/27/07** **Continue to monitor and evaluate Muddy River during rain events and dewatering activities. Reinforce and improve controls on site as needed. 3/27/07**	**Continue to evaluate controls for effectiveness. The activities were well-controlled at this time.** **NA**
Blasting	**All blasting was complete as of 9/7/06.**	**None. 3/27/07**	**NA**
Spills, soils and material storage	**All remaining soil on site will be used as fill in construction activities. 3/27/07** **A few small stockpiles resulting from the foundation excavations remain. 11/20/06-3/27/07** **Spill cleanup materials were available on site and are being used and restocked as needed. 3/27/07**	**Soils appear to be handled appropriately. 3/27/07** **Install controls for the stockpiles where/if needed. 11/20/06-3/27/07** **Always use spill control materials when working on equipment and during refueling. 3/27/07**	**NA** **NA** **NA**

Areas of Inspection	Observation	Recommended Action	Corrected Action
Additional Observations	**A line of haybales is maintained across the old ROW access to prevent unauthorized use (eg ATVs) and potential run-off. 3/27/07**	**Monitor haybales and replace as needed. 3/27/07**	**NA**

Next likely scheduled inspection: **Tuesday April 3, 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 exit off Carpenter Lane is at final grade; haybales at the exit have been replaced. Minor amounts of fine sediment tracking are still noted but good efforts are made to keep the area controlled.

View of Carpenter Lane and retaining walls. Some slight sedimentatic (as well as sand from town sanders) was noted along the gutters. Larger piles of sediment have been removed.

Haybales remain along the edges of the site entrance (west side) in an effort to reduce turbid run-off from the site.

Haybales and controls remain in place at the inlet of the detention basin. Sediment from run-off was contained effectively the last few weeks.

Photos by BSC Group

View of settling tank. Foundation pits were filled with rainwater and were being dewatered appropriately to the tank.

View of the culvert and sediment trap under the access road to the ROW. Sediment appears to be contained.

Storm drain outlet across Carpenter Lane has clear water flowing through the haybales. Trees have been cleared in the wetland for Segment 2a work.

Clear water was observed leaving the haybales and entering the wetlar Evaluate whether the amount of sediment accumulation justifies the minor disturbance needed to remove it, once the water subsides. Timber harvesting/clearing within the wetlands for 2A is complete.