## **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.

## **Segment 1a Inspection**

**Date:** February 11, 2008

**Inspector:** Matthew Creighton

Location: Segment 1a – Scovill Rock Switching Station to Chestnut Junction, Oxbow Junction to

Beseck Switching Station (excluding Royal Oak Bypass), and Black Pond Junction to Beseck

**Switching Station** 

Rainfall: 1.08" of precipitation was recorded in the week prior to inspection with 0.29" of the total

reported on 2/5 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways Scovill SS west to Chestnut Junction	Access roads and stone tracking pads are installed along the ROW. 2/11/08	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 2/11/08	Not Applicable (NA)
Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Culverts and or timber mats are in place at the access road wetland crossings. Several timber mat stream crossings and water bars/drainage ditches remain on these access roads. Haybales have been installed adjacent to wetlands inbetween structures 24617 & 24618 to prevent run off to the wetland here. 2/11/08	Sweep Freeman Road and Rte 9 as needed. Monitor wetlands around the site for run-off. Controls should be added as needed to protect sensitive areas. Monitor mats for sediment accumulation. Monitor new haybales for effectiveness. 2/11/08	New haybales installed upgradient of wetland #5. Additional controls may be needed.
Oxbow Junction to Beseck SS Haddam Quarter Rd. (Oxbow Junction); Johnson Ln; Foot Hills Rd.; Arbutus Street; Little Ln.; Cherry Hill Rd.; Elihu Dr.; Rte. 157 (west) Private Driveway;	Timber mats are in place along the access roads at wetland crossings. Controls remain in place at all wetlands and no issues have been noted. 2/11/08	Continue to add controls where needed, i.e. mulch, check dams, silt fence, to control sediment and prevent erosion. Sweep roadways as needed. See erosion control section. 2/11/08	NA
Powder Hill	Sediment tracking was noted on the roadway	Clean/sweep roadway and refresh the stone entrance	Needs attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	due to the activities west of Powder Hill Rd. 2/4- 2/11/08	pad. 2/4-2/11/08	
	Turbid water was also noted flowing off the access road and into wetlands during rain events. 2/4-2/11/08	Improve controls to protect wetlands. See erosion controls section. 2/4-2/11/08	Needs attention
Durham Rd  East of Beseck SS	Stone access road/pads have been removed to structure # 24520. Some areas have been mulched/ seeded. 2/11/08	Sweep Durham Rd. as needed. Additional controls may be needed in exposed areas. Monitor this site closely. 2/11/08	Some areas have been temporarily stabilized. Continue restoration.
	A stone pad remains in place at the original ROW access off Carpenter Ln. in order to prevent sediment tracking, 2/11/08	Carpenter Lane should be swept and stone removed on a regular basis. 2/11/08	NA
	Turbid run-off from the access road previously observed in the sediment trap associated with Beseck was an issue this week (and noted 2/5). 2/11/08	Add controls to the access road adjacent to the sediment trap. 2/11/08	Needs evaluation.
Black Pond Junction to Beseck SS ROW, North of Beseck SS	Water bars remain along the access road to divert run-off. Grass growth and vegetation is helping to reduce erosion and filter stormwater but more stabilization may be necessary where water is diverted. 2/11/08	Continue to monitor and adjust controls as needed. This area is associated with the wetlands northeast of Beseck. New haybales or silt fence should be considered to filter stormwater leaving the access road at water bars. 2/11/08	Continue to evaluate.
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Sediment tracking was noted on timber mats off High Hill Rd. 1/7-2/11/08	Provide controls in an effort to reduce tracking. 1/7-2/11/08	Needs regular attention
	Timber mats and sediment remain in place over the riprap stream bypass following active work here. 10/9-2/11/08	Monitor this area closely as access is directly over the stream bypass. Add more controls as needed. Regrade and stabilize the area as soon as possible. 10/9-2/11/08	Needs to be monitored/ evaluated.

<b>Areas of Inspection</b>	Observation	Recommended Action	<b>Corrected Action</b>
Foundation and site construction Scovill SS to Chestnut Jct.	Line work was underway from Scovill Rd to Shunpike. 2/11/08	Monitor and maintain controls now that the area is active. 2/11/08	Line installation underway.
Oxbow Junction to Beseck SS	Pad grading/reclaiming activities were noted off Powder Hill Rd. 2/11/08	Maintain controls and stabilize areas as needed upon completion of grading activities. See erosion control and access road sections. 2/11/08	NA
Black Pond Junction to Beseck SS	Line work was underway from Beseck SS north to Black Pond. 2/11/08	Continue to monitor and maintain controls as needed. 2/11/08	NA
Erosion and sediment controls All areas	As crews plow snow to reach work sites, they have the potential to damage controls and push snow into wetlands. 2/11/08	Caution should be taken when plowing access roads not to damage controls or place snow over controls in wetlands. 2/11/08	Needs regular attention
Scovill SS west to Chestnut Junction Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Water bars/drainage ditches are in place along the slopes on access roads in this area. 2/11/08	Continue to repair any deteriorated water bars. Ensure water is directed to stable areas. 2/11/08	NA
	Timber mats, silt fence, and filter socks remain along the access road and at the wetland crossings. 2/11/08	Continue to add controls along access road upgradient from wetlands. The area has high flow during heavy rains. 2/11/08	Continue to evaluate
	New haybales have been installed along wetland #5 as activity in the area has resulted in increased run-off. 2/11/08	Continue to monitor and add controls as needed. Monitor this area closely and maintain controls. 2/11/08	Haybales were added along wetland #5.
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus Street	Controls (Haybales, filter socks) filter water as it leaves the site, including at the turn onto the ROW and along the pond. 2/11/08	Monitor controls and maintain as needed. 2/11/08	NA
Black Walnut Dr.	Areas adjacent to the access road remain at final grade with mulch and seed. Some grading was noted at the last pad	Continue to monitor until final cover in the growing season. Provide further stabilization on the slope as needed. 2/11/08	NA-until the growing season.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	before Ball Brook. 2/11/08		
Contractor Receiving Yard and Storage Area	Silt fence and fiber rolls are in place at the perimeter of the yard and drainage areas/swales but	Continue to add, maintain, and monitor controls as necessary.	Needs attention/repair.
	several areas need repair. 4/23- 2/11/08 Turbid water is noted within wetlands during rain events. 12/31/07- 2/11/08	Repair deteriorating controls. 4/23-2/11/08	
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence remains in place in the area of exposed soils but temporary stabilization measures have not been applied. 2/11/08	Provide temporary stabilization measures for the exposed soils as well. 2/11/08	Continue to stabilize.
Valley View Drive	Timber mats were removed from wetlands. Some hay mulch and seed has been applied. 2/11/08	Additional stabilization may be needed. Monitor this area closely. 2/11/08	Mulch and seed were applied.
Durham Rd.	Timber mat/stone access road crossing is in place west of Durham Rd. Some controls are in place including fiber rolls	Some controls have been added, but additional controls may be needed here. 12/31/07-2/11/08	Needs to be monitored
	adjacent to the stone pad at structure # 24521. The access road to structure #24521 is underwater. 2/11/08	Avoid entering flooded areas unless absolutely necessary. Add controls as needed to prevent run- off. 12/31/07-2/11/08	
	Timber mats and access road crossing were removed from the wetland near #24520. Hay mulch and seed have been applied to some exposed areas. 2/11/08	Monitor wetlands and exposed areas for run-off. Additional controls may be needed 2/11/08	Mulch and seed were applied. Monitor closely.
Rte. 157 (east & west) & Elihu drive	Controls were in place along pad sites. 2/11/08.	Continue to monitor until final stabilization is achieved. 2/11/08	NA
Powder Hill Rd.	Numerous controls remain in place along the access road. Filter socks and haybales remain	Remove sediment accumulated around the controls and vegetation. Stream crossings/culverts	Sediment accumulation and turbid run-off need attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	upgradient of the stream and pond (both sides) at the base of slope. Sediment accumulation has occurred at the controls (since 8/20) and turbid water was now noted flowing into the wetlands from the access road. 2/4-2/11/08	are temporary and will be removed at the end of the work. 8/20-2/11/08 Turbid run-off was noted during a storm last week while the site was active. Additional controls are needed. 2/11/08	
	Ruts were noted at the base of Beseck Mtn where equipment accessed an old wood structure. Controls in this area were damaged by equipment and appropriate access measures (timber mats) were not used. (Since 1/22) Ruts were also noted across a small stream in the middle of the mountain slope. 2/4-2/11/08	Controls need to be repaired and ruts within wetlands need to be carefully graded out. Add appropriate access (mats) if more work is to be done. Stabilize the area as soon as possible. Ensure removal crews observe wetland boundaries. 1/22-2/11/08	Needs attention.  Area was active and access was blocked for this week's inspection.  Contractor stated work was done to fix this problem. Follow up inspection will be performed next week.
East of Beseck SS	Silt fence was added near the riprap trap (11/19) but was not able to keep turbid water out of the trap and overflowing into the wetland. (11/19, 12/3, & 2/5). 2/11/08	Consider adding stone to the portion of access road adjacent to wetlands. 11/12-2/11/08 Turbid water noted entering in multiple areas along the access road. (on 2/5) 2/11/08	Needs attention.
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation	Prior to the winter, some grass cover had been noted on reclaimed pad sites north of Beseck. 2/11/08	Continue to monitor for final stabilization and cover. 2/11/08	NA
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 2/11/08	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 2/11/08	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	The foundation is in place above the riprap stream channel bypass. The area appears contained. Controls are in place around the pad.	Monitor this area closely as the site is still disturbed and adjacent to a stream. (since 10/15) Stabilize within the D&M timelines if work is not	Restoration in this area should be expedited.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	2/11/08	returning. The area is over 21 days. 11/26- 2/11/08	
South of High Hill Rd.	Foundation installation complete (as of 10/29). A large, disturbed area was noted upgradient from wetlands since 10/22 but controls have been installed as of 11/19/07 Disturbed soil remains around the stream channel. 11/19-2/11/08	Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). Temp. stabilization will require more than sediment controls in place. Attend to the stream as soon as possible. 11/19-2/11/08	Controls were installed but restoration is needed per D&M timelines.
High Hill Rd. (north to Black Pond)	Foundation installation at the edge of the wetlands north of High Hill Rd to E. Main St. was complete (as of 10/29). Large areas of exposed soil are present. Controls are still needed adjacent to wetlands at some pad sites north of High Hill Road. 10/29-2/11/08	Add controls upgradient from wetlands and at timber mats. Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). 11/5-2/11/08	Needs attention and stabilization per D&M timelines.
	The sub-base lay down site remains within the wetlands in order to access an existing pole. Controls remain in place. 12/10-2/11/08	In accordance with the D&M expedite activities within the wetlands and remove gravel/restore the area as soon as possible. 12/10-2/11/08	Needs to be monitored and expedited.
North of East Main Street	Controls are in place at the base of the access road adjacent to the wetlands. An eroded channel was noted undermining the controls and flowing along the access road slope. 2/4- 2/11/08	Grade and stabilize the eroded channel and extend controls to cover the gap. Remove any sediment in the wetland. 2/4-2/11/08	Needs attention.
Black Pond	Controls remain in place at Black Pond Jct. and provide sufficient coverage at the wetland/ pad edge. 2/11/08	Monitor controls carefully and adjust as necessary due to adjacent wetlands Stabilize the area in the approved timelines. 11/26-2/11/08	Restoration needed upon completion of work.
Inland Wetland and Watercourse	ACOE permit is in hand.	Perform work in wetlands under the permitted	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
encroachment and mitigation	In accordance with the D&M Plan, all work occurring in and around wetlands should be expedited to minimize potential adverse impacts to wetlands and reduce disturbances to wetland soils. This includes attending to restoration of adjacent upland areas when work is complete. 12/10-2/11/08	guidelines. 2/11/08  Final stabilization and reclamation efforts should occur in completed areas in and around wetlands. Any additional work needed in and around wetlands should be expedited to allow for final stabilization procedures to commence. Any stabilization at this time will have to account for winter months. 12/10-2/11/08	Needs to be assessed.
Most access areas (including Scovill SS to Chestnut Jct., ROW North of Beseck SS; Arbutus St.; Little Lane; Durham Rd.; Powder Hill Rd. Black Walnut Dr.; Johnson Ln.; Foot Hills Rd.)	A number of wetland crossings (via timber mats) remain. Adjacent controls were in place. 2/11/08  Mulch and seed were applied following timber mat removal from the golf course off Durham Rd and Valley View Dr. 2/11/08	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 2/11/08 Continue to monitor until final stabilization during the growing season. 2/11/08	NA  Mulch and seed were applied.
Scovill SS west to Chestnut Junction	Timber mats and culverts are in place at wetland crossings in this section 2/11/08	All crossings are temporary and will require restoration upon project completion 2/11/08	NA
Oxbow Junction to Beseck SS Durham Rd.	Sediment migration/ accumulation and flooding was noted over the stone road and pad. More controls may be needed here. 10/9- 2/11/08	If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-2/11/08	Needs evaluation
Powder Hill Rd.	Several smaller streams remain culverted. Some accumulated sediment from past heavy rains has been noted in the wetland areas here at Beseck Mtn. However, vegetation was noted growing on top of the	All crossings are temporary and will require restoration at the end of the work. Where exposed sediment is greater than 2", it should be removed carefully by hand from the wetland. More	Needs evaluation/ attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	sediment. Turbid flow was also noted in the wetland during the rain event (2/4), despite past controls. 2/11/08	controls are needed to prevent turbidity during storms. See erosion control section. 2/11/08	
	Equipment accessed a wetland areas without mats in order to remove structures (since 1/22). A second location at a channel was noted 2/4. Controls were damaged and ruts were observed. 2/11/08	Ruts need to be repaired carefully and stabilized. Ensure all crews observe wetland boundaries and mats are used for access. 1/22-2/11/08	Contractor stated areas have been fixed. This will be confirmed during the next inspection.
East of Beseck SS	A pad is in place just upgradient from wetlands here. Sediment and stone/soil from the old pad remain in the wetlands. (noted since 10/22) Turbid water was noted in the outlet during heavy rains from the access road (2/5) 2/11/08	Remove any stone/soil accumulation in the wetlands during final restoration of the site. This should happen before vegetation establishes further; reducing the possibility that material will be removed. 10/22-2/11/08 More controls are needed to prevent turbidity to the wetlands. 2/4-2/11/08	Additional attention is needed.
Black Pond Junction to Beseck SS Fleming Rd. High Hill Rd. South to East Meriden Substation and north to Black Pond	The stream at structure 24415 (near East Meriden Sub) had previously been re-routed through a riprap channel and culvert. Timber mats remain over the riprap channel for foundation 24464 on the final line. Controls are in place around the area. Adjacent areas including the restored stream are seeded, with grass growth but are not fully stable. 11/12-2/11/08	Monitor controls closely. Perform final restoration in all areas when feasible. Provide temporary stabilization sufficient for winter months on any areas of exposed soil. 2/11/08	Restoration needed within timelines.
	Timber mats remain within the wetland south and north of High Hill Rd. Areas of exposed soil are present adjacent to wetlands here and south of East Main St. 11/5-	Monitor controls and stabilize soils as soon as possible. See erosion controls section. Stabilize in accordance with D&M timelines. 11/5-2/11/08	Needs attention Restore as soon as possible.

Areas of Inspection	Observation	Recommended Action	<b>Corrected Action</b>
	2/11/08  The sub-base lay down pad remains in the wetlands north of High Hill Rd. 2/11/08	Expedite work and remove gravel and restore as soon as possible. 12/10-2/11/08	Needs to be expedited.
State species of concern, threatened and endangered species.	Potential habitat for wood turtles exists at Ball Brook in this section. Contractors have avoided crossing this area through the access road in from Black Walnut Dr. 2/11/08	November 1 <sup>st</sup> was the start of the wood turtles dormant season; Sweeps at this last pad can cease until the active season begins in April. 2/11/08	NA at this time
Multiple ROW areas including: Scovill SS; Haddam Quarter Rd. To Foot Hills Rd.; Johnson Lane; Powder Hill Rd.; Contractor Storage Yard Pond; East of Beseck SS	A variety of wildlife has been noted in and adjacent to the majority of wetlands in the ROW at access and work areas. Turtles, frogs, fish, salamanders, tadpoles, several different types of egg masses, deer, small mammals, coyote pups, red fox, and wild turkeys have been observed during past inspections. These are not state listed species, but indicate good habitat. 2/11/08	Continue to be very mindful of controlling sediment and reducing access near wetlands used for amphibian breeding Also monitor controls for effectiveness and be mindful that the controls can block foraging/migrating wildlife 2/11/08	Continue to monitor
Vegetative clearing or stabilization  ROW west of Scovill Rock SS to Chestnut Junction Powder Hill Rd.; Little Lane; Durham Rd; Black Walnut Dr; Valley View Dr.; Rte 157; ROW North of Beseck SS to Black Pond	The clearing that had been performed is complete in these areas. Some pad sites are along slopes and may have issues with erosion during heavy rains. Most disturbed soil areas have been mulched and seeded as needed. Grass cover and revegetation noted in many areas. 2/11/08	Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover. 2/11/08 Grass seed will not germinate now do to weather so alternative stabilization measures should be considered.	In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan
Remaining work areas	Contractors have stated that as of the 1st of the year, several areas will undergo final grading and temporary stabilization measures (weather permitting) as site work should be complete at	The D&M states that areas should be temporarily stabilized if work will not return in 21 days. At this time, winter stabilization measures will be needed (including mulch	Contractors have provided a schedule but weather may not cooperate. Needs attention within timelines provided

Areas of Inspection	Observation	Recommended Action	Corrected Action
	that time in most places. 2/11/08	w/binders as needed). Silt fence/ haybales/ fiber rolls alone are not sufficient. 11/26-2/11/08	
Golf Course off Durham Rd and west of Valley View	Timber mats have been removed from wetlands; Hay mulch & seed were applied. 2/11/08	Continue to monitor: 2/11/08	Mulch and seed were applied.
North of High Hill Rd. South of East Main St.	In the vicinity of East Meriden SS, a small washout/rill was beginning to form in a steep slope of a pad that had previously been mulched. 1/7-2/11/08	Monitor and ensure the area is stable. 2/11/08	Needs to be monitored
	Some large areas of exposed soil remain adjacent to wetlands in these sections. 11/12-2/11/08	Maintain controls and monitor for vegetative growth. Attend to the remaining areas within the approved timelines. 11/12-2/11/08	Needs attention per D&M timelines
Dewatering Oxbow Junction to Beseck SS	Dewatering will continue at new foundations as needed. 2/11/08	Continue to restore areas that are inactive. 2/11/08	NA
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation	Dewatering basins remain in place at some pad sites. 2/11/08	Continue to restore areas within timeframes. 2/11/08	Continue working on restoration
Blasting	No blasting is proposed. 2/11/08	None 2/11/08	NA
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 2/11/08	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 2/11/08	NA
	Most concrete washout containment basins have been removed, regraded, and hay/seeded. 2/11/08	Continue to remove the material once work is complete. 2/11/08	NA at this time.
Oxbow Junction to Beseck SS Contractor Receiving Yard and Staging Area	Materials are being stored and structures staged in this area. Fuel tanks are not present. 2/11/08	Continue to locate hazardous materials and equipment away from wetland inlets such as	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Little Lane	Stockpiles were removed, silt fence was installed but stabilization of exposed soils is still needed. 1/22-2/11/08	culverts and CBs. 2/11/08  Provide temporary stabilization. See erosion control section. 1/22-2/11/08	Needs stabilization within timelines.
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 2/11/08	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 2/11/08	NA at this time
Additional Observations	None. 2/11/08	None. 2/11/08	NA

Next likely scheduled inspection:

Tuesday February 19, 2008

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:** Matt Creighton, BSC Group

**Reviewer:** Diana Walden, BSC Group



West of Scovill SS: Haybales installed to stop run-off to wetland #5.



Route 9 Crossing Line work was underway.



Black Walnut Dr. Grading noted around the last structure before Ball Brook to accommodate line pulling equipment.



Little Ln: Wooden structures removed, final grading is complete. Temporary stabilization measures needed on exposed soils.



Powder Hill Rd: Sediment tracking was noted on the roadway. Equipment removal from this section was underway.



East Meriden SS: Erosion noted on the steep slopes at structure 2446? Run-off remains contained to the ROW but stabilize when feasible.



North of High Hill: Insulator installation continues moving toward Black Pond Jct.



South of E. Main St: Line work underway adjacent to wetlands.