## 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: November 12, 2007

**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: 0.79" of precipitation was recorded in the week prior to the inspection with 0.67" on 11/6

(NOAA data at Meriden, CT).

<b>Areas of Inspection</b>	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways  Most work areas (including Oxbow Junction, Black Pond, Black Walnut Dr., Contractor Receiving Yard, Valley View Dr., Rte. 157, High Hill Rd., East Main Street and	Access roads and stone tracking pads are in place at the ROW entrance in these locations. Associated roadways are free of project related sediment at this time. 11/12/07	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 11/12/07	Roadways free of sediment but needs regular attention.
Fleming Rd.)  Scovill SS west to Chestnut Junction  Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Access road and pads are in place in these sections. Culverts are in place at some of the wetland crossings with minimal flow noted in the streams. Timber mats are in place at stream/wetland crossings here. Several timber mat stream crossings remain at the old access road east of Scovill SS. 11/12/07	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. 11/12/07	Not Applicable (NA)
	Water bars/drainage ditches are in place along the access road slope East of Rt 9. 11/12/07	Monitor for effectiveness of the diversions and add fiber rolls or controls along the access road as needed upgradient from wetland crossings. 11/12/07	NA at this time

Areas of Inspection	Observation	Recommended Action	Corrected Action
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; Valley View Dr.;	Access roads and pads are in place along the majority of this section of ROW. Timber mats are in place at wetland crossings. Controls remain at all wetlands and no issues have been noted. 11/12/07	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. 11/12/07	NA
Durham Rd	Stone access road/pads are in place to structure # 24521. Timber mats and a culvert remain in place in the wetlands. Access road stone is sinking/compressing into the wetland in some locations. 9/4-11/12/07 Sediment is migrating/accumulating over the stone road and pad. 10/9-11/12/07	Sweep Durham Rd. as needed. Provide timber mats to reduce impact if further access is necessary. Contractors are working to determine the status of this road. See wetland section for more details. 11/12/07	Needs evaluation
Durham Rd. to Elihu Dr.	Access roads and pad site installation is completed within the golf course. Timber mats were used to prevent ruts in some areas. 11/12/07	Add controls as needed during construction. Monitor mats for sediment accumulation. 11/12/07	Timber mats were installed to protect soils.
East of Beseck SS	The wetlands east of Beseck SS are receiving sediment laden stormwater from the access road during periods of heavy rain (noted on 9/11, 11/6 and again this week).11/12/07	Evaluate and adjust or reinforce controls to slow and filter stormwater. 11/12/07	Needs attention.
	A stone pad is now in place at the original ROW access off Carpenter Ln. in order to prevent sediment tracking. 11/12/07	Carpenter Lane should be swept on a regular basis. 11/12/07	Stone tracking pad is in place.
Black Pond Junction to Beseck SS ROW, North of Beseck SS	Water bars and haybales along the access road are deteriorating but grass growth and vegetation is helping to reduce erosion and filter stormwater.	Continue to monitor and adjust controls as needed. Regrade access road as needed. 11/12/07	Area needs regular attention.

<b>Areas of Inspection</b>	Observation	Recommended Action	Corrected Action
	11/12/07		
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Access road crosses several streams and wetlands in this section. 11/12/07	Monitor area for run-off and add controls as needed. 11/12/07	Needs regular attention.
	Timber mats and sediment remain in place over the riprap stream bypass following active work here. 11/12/07	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. 10/9-11/12/07	Needs to be monitored/ evaluated.
Foundation and site construction Scovill SS west to Chestnut Junction	No active work was noted following installation of foundations and poles. 11/12/07	Monitor and add controls as needed. See erosion control section. 11/12/07	NA
Oxbow Junction to Beseck SS	Foundation drilling was underway within the golf course off Durham Rd. 11/12/07	Add controls as needed as work progresses. 11/12/07	NA
Black Pond Junction to Beseck SS ROW, North of Beseck SS to Black Pond Jct.	Foundations have been installed on multiple lines from Black Pond Jct. to E. Meriden SS. 11/12/07	Work is needed on stabilization. See the erosion control section. 11/12/07	See erosion control section.
	Line work underway north of Beseck SS to E. Meriden SS. 11/12/07	Monitor controls when working near/in resource areas. 11/12/07	NA
Erosion and sediment controls Scovill SS west to Chestnut Junction Scovill SS to Rte. 9	Water bars have been installed along the access road upgradient from sensitive areas. 11/12/07	Continue to maintain and monitor water bars for effectiveness. Ensure water is directed to stable areas. 11/12/07	Water bars were added.
Rte. 9 to East Mount Rd.	Grass growth noted at recently seeded areas. Timber mats, silt fence, and filter socks remain along the access road and at wetland crossings. 11/12/07	Continue to add controls along access road upgradient from wetlands to filter run-off and prevent turbidity. The area has high flow during heavy rains. 11/12/07	Continue to evaluate
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus Street	Controls (Haybales, filter socks) were filtering water as it leaves the site, including at the turn onto the ROW and along the pond. 11/12/07	Monitor controls and adjust as needed. Add controls as needed upgradient from wetlands. 11/12/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Black Walnut Dr.	An eroded washout was noted on the steep slope of the last pad site upgradient from Ball Brook despite past controls. 10/15-11/12/07	Adjust controls to protect the resource area downgradient. Consider an erosion control blanket if necessary to stabilize the slope and establish vegetative cover as soon as possible. 10/15-11/12/07	Needs attention
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 several areas need repair.4/23-11/12/07	Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-11/12/07	Needs repair when feasible. Existing vegetation helps contain/filter the area.
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence typically filters turbid run-off here before it leaves site. Timber mats are in place at the crossing and areas remain seeded. 11/12/07	Monitor and reinforce controls to ensure they adequately filter run-off. Monitor for stabilization. 11/12/07	NA
Durham Rd.	Timber mat/stone access road crossing is in place west of Durham Rd. Some controls are in place including fiber rolls adjacent to the stone pad at structure # 24521. 11/12/07	Some controls have been added, but additional controls may be needed here. 11/12/07	Needs to be monitored
	New drilling underway within the golf course. Timber mats have been used to reduce ruts. 11/12/07	Add controls as needed during construction and monitor wetlands for turbidity. 11/12/07	Timber mats used to reduce impacts to playing surfaces.
Rt 157 (east & west) & Elihu drive	Controls were in place along pad sites. 11/12/07.	Continue to monitor until final stabilization is achieved. 11/12/07	NA
Powder Hill Rd.	Numerous controls remain in place along the access road. Filter socks and haybales remain upgradient of the stream and pond (both sides) at the base of slope. Sediment accumulation has occurred at the controls. 8/20-11/12/07	Remove sediment accumulated around the controls and vegetation. Stream crossings/culverts are temporary and will be removed at the end of the work. Turbid run-off has not been noted recently however, area should be monitored during large storms. 11/12/07	Some controls are working well but sediment accumulation needs proactive attention/evaluation when feasible.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Controls along the access roads on the slopes of Beseck Mtn have deteriorated however; the well-established vegetation appears to filter almost all of the run-off. Wetlands adjacent to the pond do contain some sediment but vegetation has established over the sediment, stabilizing the area. 11/12/07	Controls should be maintained along the access road as needed especially around wetlands. Minimize impacts to the vegetative cover to the extent feasible during line work. Remove and stabilize the access road upon completion of work to provide final restoration for the site. 11/12/07	Controls need maintenance along the access road.
East of Beseck SS	Turbid run-off from the pad and access road was noted under and beyond the fiber roll controls and within the wetland here. 11/12/07	Either repair/reinforce controls along the access road or determine how to make the controls at the wetland effective. Consider adding stone to the portion of access road adjacent to wetlands. 11/12/07	Needs attention.
	Grass growth was noted at the graded, seeded area adjacent to wetlands and BSS. 11/12/07	Monitor controls and exposed areas for vegetative cover and until stable. 11/12/07	Grass growth noted.
West of Beseck SS	The area west of Beseck SS remains mulched and seeded. The stockpile has been removed with a berm left at the edge of the road to prevent run- off. 11/12/07	Continue to monitor until final stabilization is achieved. Adjust controls as necessary. 11/12/07	Stockpile was removed and the area was seeded.
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden	Some grass growth was noted on reclaimed pad sites north of Beseck. 11/12/07	Continue to monitor for final stabilization and cover. 11/12/07	Some grass growth was noted.
Substation Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 11/12/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 11/12/07	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	The pad at structure #24462 contains a steep slope with exposed soils.	Stabilize the slope with seed/mulch and add controls as necessary to	Needs attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	9/24-11/12/07	slow/filter stormwater flow. 9/24-11/12/07 Consider erosion control blankets if run-off is an issue. 10/15-11/12/07	
	The foundation is in place above the riprap stream channel bypass. The area appears contained. Controls are in place around the pad. 11/12/07	Monitor this area closely as the site is still disturbed and adjacent to a stream. Stabilize the area as soon as work is complete. 10/15-11/12/07	Restoration needed within timelines.
South of High Hill Rd.	Foundation installation complete (as of 10/29). A large, disturbed area was noted upgradient from wetlands. Controls were not in place. 10/22-11/12/07	Add controls around the pad. Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). 10/22-11/12/07	Needs attention.
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 the pad site north of High Hill Road. 10/29-11/12/07	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). 11/5-11/12/07	Needs attention.
	Portions of the ROW north of High Hill Rd. remain restored with seed and mulch and controls are in place north of East Main St. 11/12/07	Continue to monitor for stabilization and provide similar restoration to any areas that won't be actively worked. 11/12/07	NA in seeded areas.
	Controls are needed at large disturbed areas adjacent to wetlands to the south of East Main St. 11/5-11/12/07	Add controls around the disturbed area and provide temporary stabilization in the approved timelines. 11/12/07	Needs attention.
Black Pond	Controls remain in place at Black Pond Jct. and provide sufficient coverage at the wetland/pad edge. 11/12/07	Monitor controls carefully and adjust as necessary due to adjacent wetlands 11/12/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Inland Wetland and Watercourse encroachment and mitigation	ACOE permit is in hand.	Perform work in wetlands under the permitted guidelines. 11/12/07	NA
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) were noted. Adjacent controls were in place. 11/12/07	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 11/12/07	NA
Scovill SS west to Chestnut Junction	Timber mats and culverts are in place at wetland crossings in this section 11/12/07	All crossings are temporary and will require restoration upon project completion 11/12/07	NA
Oxbow Junction to Beseck SS Durham Rd.	Sediment migration/ accumulation was noted over the stone road and pad. More controls may be needed here. 10/9- 11/12/07	If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-11/12/07	Needs evaluation.
Powder Hill Rd.	Several smaller streams remain culverted. Some accumulated sediment from past heavy rains has been noted in wetland areas however, vegetation was noted growing on top of the sediment. 11/12/07	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. 11/12/07	Needs evaluation/ attention when access is complete.
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 wetlands from access road run-off. 11/12/07	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. 10/22-11/12 Add controls along the access road to prevent run-off from reaching wetlands. 11/12/07	Additional attention is needed.
Black Pond Junction to Beseck SS	The stream at structure 24415 (near East Meriden	Monitor controls closely as work was performed	Needs to be monitored.

<b>Areas of Inspection</b>	Observation	Recommended Action	<b>Corrected Action</b>
Fleming Rd. High Hill Rd. South to East Meriden Substation and north to Black Pond	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 yet stable. 11/12/07	adjacent to the stream. Continue to monitor the area until vegetative cover has fully established. Perform final restoration in all areas when feasible. 11/12/07	
	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. due to the recent work. 11/5-11/12/07	Monitor controls and stabilize soils as soon as possible. See erosion controls section. Stabilize in accordance with D&M timelines. 11/5-11/12/07	Needs attention
	Active work is complete adjacent to wetlands at Black Pond Jct. with controls in place. 11/12/07	Continue to monitor carefully and reduce impacts to the extent feasible. 11/12/07	NA at this time
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. The final pad and structure on this line is installed upgradient from the habitat. 11/12/07	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. 11/12/07	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 and wild turkeys have	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 11/12/07	Continue to monitor

Areas of Inspection	Observation	Recommended Action	Corrected Action
	been observed during past inspections. These are not state listed species, but indicate good habitat. 11/12/07		
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 largely 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 growth noted in many areas. 11/12/07	Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover: 11/12/07	In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan  Grass growth and natural revegetation noted in many areas.
Remaining work areas	Work is complete, at least temporarily, in many areas along the route. However, crews have to return for future activities in some locations. 11/12/07	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 w/binders or erosion control mats as needed). 11/12/07	Needs attention within timelines provided.
Rte. 9 to East Mount Rd.	Clearing and grading appears complete in this section. Mulch remains in place on steep slopes. 11/12/07	Add controls as needed along slopes and stabilize areas as soon as possible. 11/12/07	NA at this time
Black Pond Junction to Beseck SS.	Some of the existing pad sites from the first line installation remain restored/ seeded and mulched with some grass growth. 11/12/07	Continue to restore and stabilize old pad sites and work areas that will no longer be needed or active, prior to crews leaving an area. If work activities will not return in 21 days, temporary stabilization is needed. 11/12/07	Needs regular attention.
North of East Main Street	Slopes above the new foundation remain mulched and seeded. Some large areas of exposed soil remain	Maintain controls and monitor for vegetative growth. Attend to the remaining areas within the approved timelines.	Needs regular attentio.

<b>Areas of Inspection</b>	Observation	Recommended Action	<b>Corrected Action</b>
	adjacent to wetlands in nearby sections due to recent foundation work. 11/12/07	11/12/07	
Dewatering Oxbow Junction to Beseck SS Black Walnut Dr.	Several settling basins remain off Black Walnut Dr. 11/12/07	Continue to use settling basins as needed. Restore areas when work is complete. 11/12/07	NA
Durham Rd.	Active dewatering was underway at the new foundation installation within the golf course. A frac tank was on site. 11/12/07	Continue to monitor and contain slurry during foundation work. Restore areas when work is complete. 11/12/07	Dewatering underway with frac tanks.
East of Beseck SS.	Drilling/dewatering was no longer active. 11/12/07	Add controls as needed. Continue removing sediment from the site. 11/12/07	NA
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation, Fleming Rd.	Dewatering basins remain in place at the pad sites. 11/12/07	Continue to monitor adjust controls as necessary. Re-use existing basins whenever possible for final line construction to reduce disturbance. Restore areas whenever feasible. 11/12/07	NA at this time. Begin working on restoration
Blasting	No blasting is proposed. 11/12/07	None 11/12/07	NA
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 11/12/07	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 11/12/07	NA
	Concrete washout containment was noted in the form of lined, dug basins in several locations. 11/12/07	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 11/12/07	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. 11/12/07	Continue to locate hazardous materials and equipment away from wetland inlets such as	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 11/12/07	culverts and CBs. 11/12/07  Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 11/12/07	NA at this time
Additional Observations	None. 11/12/07	None. 11/12/07	NA

Next likely scheduled	
inspection:	Monday November 19, 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:	Matt Creighton, BSC Group	
Reviewer:	Diana Walden, BSC Group	



East of Rte. 9: Drainage ditches were installed along the access road. Ensure that run-off is directed to stabilized/vegetated areas and that the swale itself is stable.



Durham Rd Golf Course: Dewatering during foundation drilling. Frac tanks were being used.



Black Walnut Dr. Ruts and erosion noted along a steep slope on the last pad site upgradient from Ball Brook. Regrade and stabilize; consider adding an erosion control blanket due to the slope grade.



East of Beseck SS: Following a rain event, turbid water was flowing from the access road and pad site, into the wetland here. Determine how to reinforce controls and make them more effective.



N. Beseck SS: Mulched and seeded areas located at recent pad sites are growing some grass cover. Continue to monitor into the winter for stabilization.



East Meriden SS: The steeply sloped edge of a pad site needs controls/ stabilization.





South of East Main St: (Both photos) Large, disturbed soil area located upgradient from wetlands .Controls are needed here. Grade, remove stone, and temporarily stabilize the soils if work will not return in 21 days.