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: July 9, 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: 1.39" of precipitation was recorded in the week prior to inspection, with 0.77" on 7/4

(NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways Most work areas (including Oxbow Junction, Black Pond, Contractor Receiving Yard, Valley View Dr., Rte. 157, High Hill Rd., East Main Street, Fleming Rd.;	Access roads and stone tracking pads are in place at the ROW entrance in these locations. Associated roadways were free of project related sediment at this time. 7/9/07	Sweep the roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 7/9/07	Not Applicable (NA)
Black Walnut Dr.) Scovill SS west to Chestnut Junction	Access road and pads are install from Rte. 9, east past Scovill SS. Silt fence remains along some of the wetlands. Culverts are in place at some of the wetland crossings with minimal flow noted in the streams. Several stream crossings, via timber mats remain at the old access road east of Scovill SS. 7/9/07	Clean sweep Freeman Road and Rte 9 as needed. Monitor wetlands at and around the site for run-off and add controls as needed. See erosion control section. 7/9/07	NA
	Mulch is being applied to exposed soil areas adjacent to the access road and pads. 7/9/07	Continue to stabilize areas whenever feasible 7/9/07	Mulch was applied proactively.
Oxbow Junction to Beseck SS	All access roads and pad	Continue to add controls	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Haddam Quarter Rd. (Oxbow Junction); Johnson Ln; Foot Hills Rd.; Arbutus Street; Little Ln.; Cherry Hill Rd.; Elihu Dr.; Rte. 157 (west) Private Driveway; Powder Hill Rd.; Valley View Dr.; East of Beseck SS	sites have been installed along the majority of this section of ROW. Timber mats used to cross wetlands as needed. Controls have been installed at all wetlands and no issues have been noted. 7/9/07	where needed, i.e. mulch, check dams, silt fence, to control sediment and prevent erosion. Sweep roadways as needed. See erosion control section. 7/9/07	
Durham Rd	Work stopped at one foundation west of Durham Rd. Timber mats are in place for accessing pads in wetlands. 7/9/07	Clean/sweep Durham Rd. as needed. See erosion control section. 7/9/07	NA
Durham Rd. to Elihu Dr.	Access roads and pad site installation on hold until winter. 7/9/07	Add controls as needed during access road installation. 7/9/07	NA
Elihu Dr.	No drainage issues were noted since the pipe has been repaired. 7/9/07	Monitor area until grass growth has established. 7/9/07	No further issues noted.
Rte. 157 (west) Private Driveway	Private dirt driveway being used to access a pad site. A section of lawn was damaged from equipment accessing the ROW. 4/23-7/9/07	Maintain and adjust controls as needed. Work with landowner to repair the area of lawn as needed. 4/23-7/9/07	Needs attention and evaluation at completion of work in the area.
East of Beseck SS	The new timber mat staging area remains across the wetlands east of Beseck SS. Controls were not in place 6/11- 7/9/07	Controls needed to be installed/extended to prevent sediment from entering the adjacent wetlands. 6/11-7/9/07	Timber mats installed but need attention/ evaluation.
Black Pond Junction to Beseck SS ROW, North of Beseck SS	Water bars are in place along the access road to divert turbid run-off to lines of staked haybales 7/9/07	Continue to monitor and adjust controls as needed. 7/9/07	NA
	The stone tracking pads have helped to stabilize soils and muddy areas, including the new access road north of Beseck SS 7/9/07	Monitor area for run-off and add controls as needed. 7/9/07	NA
	Stone pads, new staging	Monitor area for run-off	NA at this time.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	areas, and accesses were being graded/installed north of Beseck SS. 7/9/07	and add controls as needed. 7/9/07	
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Access road crosses several streams and wetlands in this section 7/9/07	Continue to adjust and maintain controls as needed. See erosion controls section. 7/9/07	NA
North of High Hill Rd. crossing (north to Black Pond)	Two access roads remain in place north off High Hill Rd. 7/9/07	Monitor for tracking and install controls as necessary. 7/9/07	NA
	Access road is in place off East Main Street, within a condo development and to the north of E. Main St. Area looks good; no tracking noted. Fiber rolls in place along the slope. 7/9/07	Monitor tracking into the development parking lot and sweep as needed. Continue to add controls as work progresses. 7/9/07	NA
Foundation and site construction Scovill SS west to Chestnut Junction	Access road upgrade and pad construction is nearly complete. Foundation drilling at one pad site was underway 7/9/07	Monitor and add controls as needed. See erosion control section. 7/9/07	NA.
Oxbow Junction to Beseck SS Oxbow Jct. to Haddam Quarter Rd. to Foot Hills Rd. to Arbutus Street	Pole installation was underway at Foot Hills Rd. and Arbutus St. 7/9/07	Monitor and add controls as needed. 7/9/07	NA
Black Walnut Dr. (east)	Foundation drilling was underway at the last pad upgradient from the Ball Brook habitat. 7/9/07	Monitor and add/adjust controls as needed. See state listed species section. 7/9/07	NA at this time.
South of Contractor Yard Along Rte. 17 and Little Lane	Structures are in place here at the point where 1A and 1B rejoin. 7/9/07	Monitor and add/adjust controls as needed. 7/9/07	NA
Cherry Hill Rd. (east & west)	Several pole/structures have been installed. 7/9/07	Continue to monitor. No run-off issues were noted. 7/9/07	NA
Durham Rd.	Foundation is in place within wetland. Controls were still not in place (noted 6/18). 7/9/07	Controls appear to be needed. See erosion control and dewatering sections. 6/18-7/9/07	NA
Rte. 157 (east & west) &	No new work since pole	Monitor and adjust	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Elihu Drive. to East of Beseck SS	installation was complete and 115-kv lines were installed to the golf course. 345-kv lines will be installed upon completion of the new SS. 7/9/07	controls as needed. See erosion control section. 7/9/07	
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation South/north of High Hill Rd. crossing (vicinity of East Meriden SS to Black pond)	Pole installation continues. New foundations were installed in several locations including north of Beseck and near Fleming Rd. Another foundation was being drilled just outside of the Beseck SS perimeter fence. 7/9/07	Continue to monitor and see erosion control and dewatering section for more details. 7/9/07	NA
	No new work since grading and pad installation complete north of East Main Street. and poles were installed to the south 7/9/07	Monitor area for erosion and add controls as needed. 7/9/07	NA
Black Pond Jct.	No new work since two poles were installed. 7/9/07	Continue to monitor and add controls as needed. 7/9/07	NA
Erosion and sediment controls Scovill SS west to Chestnut Junction	Portions of access road are dry and have been compacted by a roller. Silt fence remains in some areas along the access road to filter run- off. 7/9/07	Add controls when entering sites for clearing, as soon as soil is disturbed, and when resource areas are adjacent. 7/9/07	NA
	Upgraded access road in place with culverts at 3 streams. Some turbid water from installation noted 6/25. Mulch and seed remain at exposed soil areas along the road. 7/9/07	Continue to add controls along access road upgradient from wetlands to filter run-off and prevent turbidity. 7/9/07	Mulch and seed were applied. Continue to evaluate
Oxbow Junction to Beseck SS Haddam Quarter Rd. To Foot Hills Rd. (east)	Controls (Haybales, filter socks) were filtering any water as it leaves the site. Foundation installed near wetlands. Controls are	Add controls as needed upgradient from wetlands. Monitor wetlands for run-off. 5/21-7/9/07	Needs evaluation

Areas of Inspection	Observation	Recommended Action	Corrected Action
	needed still upgradient of the wetlands. 5/21-7/9/07		
	Foundation installed near wetlands. Controls may be needed upgradient of wetlands. 7/9/07	Add controls as needed above wetlands. Monitor wetlands for run-off. 7/9/07	Needs evaluation.
Foot Hills Rd. (west) Arbutus Street	Silt fence, filter socks and hay mulch and other controls remain along the timber mat wetland crossing and to filter run- off in these locations. 7/9/07	Monitor controls and adjust as needed. Add controls along access road at run-off point. 7/9/07	NA
Black Walnut Dr.	Some of the installed stone was pushed into controls along the road. 4/2-7/9/07	Continue to adjust controls as needed and pull stone back from swales if necessary. 4/2-7/9/07 Check sediment traps for accumulated sediment. 7/9/07	NA
	Bark mulch, haybales and filter socks remain along the steep slope of the pad upgradient of Ball Brook. A foundation is being installed here. 7/9/07	Continue to adjust controls as needed and monitor very closely during the foundation installation. 7/9/07	Continue to monitor
Contractor Receiving Yard and Storage Area	A few fiber rolls have been run over along the access drive. 2/12-7/9/07	Repair/replace damaged fiber rolls as needed. 2/12-7/9/07	Needs repair when feasible.
	Silt fence and fiber rolls are in place at the perimeter of the yard and along drainage areas/swales but several sections have fallen. 4/23- 7/9/07	Continue to add, maintain, and monitor controls as necessary. Repair fallen/untoed sections of silt fence 4/23- 7/9/07	Needs repair.
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence typically filters turbid run-off before it leaves site. Mulch is in place in some areas. 7/9/07	Monitor and reinforce controls to ensure they adequately filter run-off. 7/9/07	NA
Cherry Hill Rd. (west)	Timber mats are in place but controls have not been added. (noted 4/2). 7/9/07	Continue to monitor slope for tracking and erosion. Ensure that controls are adequate to	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
		control run-off. 7/9/07	
Durham Rd.	The foundation is in place west of Durham Rd. Run-off was clear but controls were still not in place (noted since 6/11). 7/9/07	Erosion controls are still needed along the edges of the new access road during drilling. 6/11-7/9/07 Although run-off is less turbid, controls are still needed at this site. 6/11-7/9/07	Needs attention.
Rte. 157 (east & west) & Elihu Dr.	Controls remain along pad sites and wetland crossings 7/9/07 The area near the repaired drain pipe remains graded, mulched and seeded. 7/9/07	Continue to adjust or extend controls when work progresses in this area. Monitor area until grass growth is established. 7/9/07	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. Vegetation is helping to trap sediment before it reaches streams. 7/9/07	Remove sediment accumulated around the controls and vegetation. Stream crossings/culverts are temporary and will be removed at the end of the work. Despite good efforts on controls, turbid run-off is still an issue during larger storms. 7/9/07	Needs proactive attention/evaluation when feasible. Grass growth continues in hydroseeded areas.
	Accumulated sediment from past heavy rains can be seen in the wetlands west of Powder Hill Rd. when standing water recedes. 6/11-7/9/07	Any sediment accumulation over 2" should be carefully removed from the wetland by hand. 5/29-7/9/07	Needs evaluation
East of Beseck SS	At the spot adjacent to the wetlands east of Beseck SS, fiber rolls (filter socks) remain adjacent to the timber mat pads but sediment (likely from snow clearing) has been piled on and over the socks. 4/2-7/9/07	Adequately contain all sediment; the soil in the wetland will have to be removed carefully be hand. 4/2-7/9/07 Add controls at crossing and monitor pond/wetlands for turbid run-off. 7/9/07	Needs attention
	Timber mats were in place through the	Add controls at crossing and monitor pond/	Needs attention

Areas of Inspection	Observation	Recommended Action	Corrected Action
	wetlands for pulling wire. No controls were noted. (since 6/4) Turbid run-off is an issue during heavy rain. 7/9/07	wetlands for turbid run- off. 6/4-7/9/07	
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation	Several areas of exposed soil were mulched and seeded along this section of ROW. 7/9/07	Monitor exposed areas until stabilized 7/9/07	Mulch and seed were applied.
	Haybales and silt fence remain adjacent to the pond north of Beseck. 7/9/07	Continue to monitor runoff and ensure it does not reach wetlands. Add more controls (i.e. stone, chips, etc.) and remove sediment from existing controls to restore capacity as needed. 7/9/07	Controls are maintained.
Fleming Road	The second line of silt fence remains in place at the foundation immediately adjacent to the pond. A line of haybales was in place downgradient from another recently poured foundation. 7/9/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 7/9/07	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	The redirected stream splits, flowing partially through a culvert and partially through the center of the timber pad site. The banks and adjacent, exposed soil remain stabilized with erosion control mats. 7/9/07	Ensure the controls are adequate for run-off in this area. Stabilize soils as soon as possible. Controls or regular cleaning will be needed on the timber mats as well to prevent sediment from seeping through. 7/9/07	Needs proactive attention.
	Foundations are in place near the pond west of East Meriden SS. No issues were noted. 7/9/07	Continue to monitor and ensure that controls can handle run-off. 7/9/07	NA at this time
High Hill Rd. (north to Black Pond), East Main St.	Controls are in place along the access off High Hill Rd., and upgradient from wetlands in all locations. 7/9/07	Monitor controls closely. Adjust as needed Continue to extend controls along wetlands as work progresses. 7/9/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Inland Wetland and Watercourse encroachment and mitigation	ACOE permit is in hand. 1/22/07	Perform work in wetlands under the permitted guidelines. 7/9/07	NA
Most access areas (including: 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 installed. 7/9/07	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration at the end of the work. 7/9/07	NA
Scovill SS west to Chestnut Junction	Slight turbidity was noted in the culverted flow under the access road after installation (6/25). Adjacent areas remain mulched. 7/9/07	See erosion control section. 7/9/07	NA
Oxbow Junction to Beseck SS Contractor Storage Yard	Perimeter controls are deteriorating in spots and should be repaired. The suspended sediment in the adjacent pond has settled. 5/14-7/9/07	Adjust/repair controls as needed around the site. 5/29- 7/9/07	Continue to monitor pond. Controls need attention.
Durham Rd.	The foundation is in place at the wetland/upland boundary off Durham Rd. Run-off to adjacent wetlands was no longer turbid but controls are still needed. 6/25-7/9/07	Controls needed within the wetland to prevent sediment from leaving the timber mat pads. 6/25- 7/9/07	Turbidity and run-off were reduced but adequate controls were not in place.
Powder Hill Rd.	Several smaller streams remain culverted. When standing water recedes, some accumulated sediment from past heavy rains has been noted in wetland areas. 5/29-7/9/07	All crossings are temporary and will require restoration at the end of the work. Where sediment is greater than 2", it should be removed carefully by hand from the wetland. 5/29-7/9/07	Needs evaluation
East of Beseck SS	Timber mat staging areas are in and adjacent to wetlands. Sediment was noted on and beyond the filter sock at the wetland's edge. 4/2-7/9/07	Adequately contain all sediment; the soil in the wetland will have to be removed carefully be hand. 4/2-7/9/07	Needs attention
	An additional timber mat	Controls are needed	Needs evaluation

Areas of Inspection	Observation	Recommended Action	Corrected Action
	pad is in place and turbid run-off is an issue during heavy rain (noted 6/4) The pond is now dry. 7/9/07	around the pads. 6/11-7/2/07 Evaluate water usage. 7/9/07	
Black Pond Junction to Beseck SS High Hill Rd. South to East Meriden Substation and north to Black Pond	Pole installation is complete within the stream/wetlands. The flow is being re-routed through a riprap channel and culvert. Erosion control mats are in place at the top of bank 7/9/07	Continue to stabilize soils and adjust controls as necessary to protect wetlands. Stabilize adjacent area as soon as possible. See erosion control section for more details. 7/9/07	NA
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. However, the final pad is installed upgradient from the habitat and foundation drilling is now underway. 7/9/07	April 1st was the start of the active wood turtle season; contractors will require training for mitigation if work occurs in the Ball Brook habitat. Ball Brook is not scheduled to be accessed, however consider performing sweeps at this last pad as turtles do forage/migrate away from streams. 7/9/07	Consider mitigation/sweeps in this area.
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 been observed during past inspections. These are not state listed species, but indicate good habitat. 7/9/07	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 will block foraging/migrating wildlife 7/9/07	Continue to monitor
	Many turtles have previously been observed basking in the ponds south of High Hill Rd and near Fleming Rd. A spotted turtle was also noted in the wetland near	Although these are not state listed species, continue to be mindful of equipment movement and work activities in these areas7/9/07	Continue to monitor.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Scovill Rock SS several weeks ago. 7/9/07		
Vegetative cleaning 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 for access road and pad construction 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. 7/9/07	Retain species approved by the D&M plan wherever feasible. Temporarily stabilize exposed soil as necessary, especially in slope areas such as Beseck Mtn. Continue to stabilize areas and monitor for vegetative cover. 7/9/07	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.
Dewatering Oxbow Junction to Beseck SS Black Walnut Dr.	Several settling basins remain in place off Black Walnut Dr. 7/9/07	Continue to use settling basins as needed. Monitor capacity of the basin when in use. 7/9/07	NA
Durham Rd.	Settling tank used for dewatering remains in this area. 7/9/07	Continue to use settling tanks for dewatering and add controls around timber mats. 7/9/07	A settling tank was used, but controls still need attention.
East of Beseck SS.	Dewatering was occurring east of the Beseck SS perimeter at a new foundation. A pump truck was being used. 7/9/07	Dewatering discharge was being controlled appropriately. 7/9/7	Dewatering will continue occurring with a pump truck and settling tanks as needed.
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation	No active dewatering noted at this time in the High Hill Rd. area. A few foundations were being installed in this section of ROW. 7/9/07	Continue to monitor capacity of the basin and use adequate controls for dewatering, 7/9/07	NA
Blasting	No blasting is proposed. 7/9/07	None 7/9/07	
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 7/9/07	Always use spill control materials when working on equipment and during refueling 7/9/07	NA
	Concrete washout containment was noted in the form of lined, dug	Provide appropriate containment for washouts. Be especially	Concrete washout basins were noted in several locations.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	basins in several locations. 7/9/07	careful of concrete containment near wetlands. Remove the material once work is complete. 7/9/07	
Oxbow Junction to Beseck SS Contractor Receiving Yard and Staging Area	Materials are being stored and structures staged in this area. No issues were currently noted. 7/9/07	Always use spill control materials when working on equipment and during refueling. Continue to locate hazardous materials and equipment away from wetlands inlets such as culverts and CBs. when possible. Remove spills as needed. 7/9/07	NA
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 7/9/07	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 7/9/07	NA at this time
Additional Observations	NA		

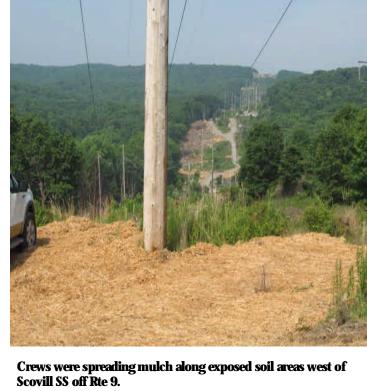
Next likely scheduled		
inspection:	Monday July 16, 2007	

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



Foundation drilling noted west of Scovill SS off Rte 9.





Pole installation was occurring off Foot Hills Rd.



Foundation and pole installation was occurring off Arbutus Street.



Foundation drilling off Black Walnut Drive upgradient from Ball Brook.



Foundation installation and pump truck at the perimeter of Beseck SS. $\,$



View of the wetland crossing off Black Walnut Drive. Filter socks remain in place.



Hay mulch and seed remain in place in areas of exposed/disturbed soil off Little Lane. $\label{eq:limit}$



View of timber mats within wetlands east of Beseck SS.



Timber mats within a small pond east of Beseck SS. The pond is dry at this time.



View of pad and road grading and foundation installation north of Beseck SS.



Foundation was installed and controls were in place off Fleming Road



View of the foundation installed west of East Meriden SS.



View of another foundation installed west of East Meriden SS.



Timber mats and controls at pole within wetlands off High Hill Road. Grass growth was noted on slope.



Looking south near High Hill Road toward Beseck SS. Reestablishment of vegetation was noted.