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: January 28, 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: No precipitation was recorded in the week prior to inspection (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. 1/28/08	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 1/28/08	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 remain at the old access road east of Scovill SS. Several water bars/drainage ditches were noted along slopes on these access roads. 1/28/08	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. 1/28/08	NA
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; Powder Hill; Valley View	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. 1/28/08	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. 1/28/08	NA
Durham Rd	Stone access road/pads are in place to structure # 24521. Timber mats and a culvert remain in place	Sweep Durham Rd. as needed. Provide timber mats to reduce impact if further access is	Needs evaluation

Areas of Inspection	Observation	Recommended Action	Corrected Action
	in the wetlands. Access road stone is sinking/compressing into the wetland in some locations. 9/4-1/28/08 Sediment is migrating/accumulating over the stone road and pad (since 10/9). 1/28/08	necessary. Contractors are working to determine the status of this road. See wetland section for more details. 1/28/08	
	Several small eroded ruts noted along the slope at the access road. Area is not in the vicinity of the wetlands. 12/26-1/28/08	Monitor the area and repair ruts when feasible. 1/28/08	Needs maintenance when feasible.
	Deep ruts in wetlands from equipment (noted since 12/10) have been partially graded and covered. Area is stable. 1/28/08	Monitor this area for erosion. Final grade and stabilize this area upon completion of work. 1/28/08	Partial repairs were made to the ruts.
Durham Rd. to Elihu Dr.	Several ruts were noted at the end of timber mats in the golf course. 12/3-1/28/08 When the area is active, turbid water is noted at the wetland crossing to structure #24520 and timber mats are compressing into the mud 11/26-1/28/08	Repair ruts, stabilize, and consider adding additional mats. Add controls as needed during construction. Add controls along the edge of the mats within the wetlands to prevent turbid water. 11/26-1/28/08. Work in this area is almost complete. 12/10-1/28/08	Needs attention.
East of Beseck SS	A stone pad remains in place at the original ROW access off Carpenter Ln. in order to prevent sediment tracking, 1/28/08	Carpenter Lane should be swept and stone removed on a regular basis. 1/28/08	NA
	Turbid run-off from the access road has been previously observed in the sediment trap associated with Beseck but was not an issue this week. 1/28/08	Add controls as needed to the access road adjacent to the sediment trap. 1/28/08	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	Continue to monitor and adjust controls as needed. This area is associated with the wetlands	Continue to evaluate.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	vegetation is helping to reduce erosion and filter stormwater but more stabilization may be necessary where water is diverted. 1/28/08	with the wetlands northeast of Beseck. New haybales or silt fence should be considered to filter stormwater leaving the access road at water bars. 1/28/08	
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Sediment tracking was noted on timber mats off High Hill Rd. 1/7-1/28/08	Provide controls in an effort to reduce tracking. 1/7-1/28/08	Needs regular attention
	Timber mats and sediment remain in place over the riprap stream bypass following active work here. 10/9-1/28/08	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. 10/9-1/28/08	Needs to be monitored/ evaluated.
Foundation and site construction Oxbow Junction to Beseck SS	Minor pad grading activities were noted off Johnson Ln., Foot Hills Rd., Powder Hill Rd., and Black Walnut Dr. to prepare for line pulling, 1/28/08	Maintain controls as needed during construction. Stabilize areas as needed upon completion of grading activities. 1/28/08	NA
Black Pond Junction to Beseck SS	Line work was underway from Beseck SS north to Black Pond. 1/28/08	Continue to monitor and maintain controls as needed. 1/28/08	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. 1/28/08	Caution should be taken when plowing access roads not to damage controls or place snow over controls in wetlands. 1/28/08	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. 1/28/08	Continue to repair any deteriorated water bars. Ensure water is directed to stable areas. 1/28/08	NA
	Timber mats, silt fence, and filter socks remain along the access road and at the wetland crossings. 1/28/08	Continue to add controls along access road upgradient from wetlands. The area has high flow during heavy rains. 1/28/08	Continue to evaluate
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus	Controls (Haybales, filter socks) filter water as it	Monitor controls and maintain as needed.	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Street	leaves the site, including at the turn onto the ROW and along the pond. 1/28/08	1/28/08	
Johnson Ln	A stockpile was removed and the area was graded and mulched. 1/28/08	Continue to stabilize as needed. 1/28/08	Stockpile was removed and area was temporarily stabilized.
Black Walnut Dr.	Areas adjacent to the access road were at final grade and mulch and seed were applied. 1/2808	Continue to monitor until final cover in the growing season. 1/28/08	Areas were graded, mulched and seeded.
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- 1/28/08 Turbid water is noted within wetlands during rain events. 12/31/07-1/28/08	Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-1/28/08	Needs attention/repair.
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence remains in place proactively along a slope in an area of exposed soils where stockpiles were recently removed. 1/28/08	Provide temporary stabilization measures for the exposed soils as well. 1/28/08	Continue to stabilize.
Durham Rd.	Timber mat/stone access road crossing is in place west of Durham Rd. Some controls are in	Some controls have been added, but additional controls may be needed here. 12/31/07-1/28/08	Needs to be monitored
	place including fiber rolls adjacent to the stone pad at structure # 24521. The access road to structure #24521 is no longer underwater. 1/28/08	Avoid entering flooded areas unless absolutely necessary. Add controls as need to prevent runoff. 12/31/07-1/28/08	Area no longer flooded.
	Controls are in place around the pad, adjacent to wetlands. When the area is active, turbid water is noted at the wetland crossing for structure #24520, as a result of timber mats compressing in the soil	Additional controls are needed along the timber mat access road at the wetland crossing in an effort to contain turbidity. 11/26-1/28/08	Needs attention during active times.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	(since 11/26/07). 1/28/08		
Rt 157 (east & west) & Elihu drive	Controls were in place along pad sites. 1/28/08.	Continue to monitor until final stabilization is achieved. 1/28/08	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. 8/20-1/28/08	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, continue to monitor during large storms. 1/28/08	Some controls are working well but sediment accumulation needs proactive attention/evaluation when feasible.
	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 amts) were not used. 1/22-1/28/08	Controls need to be repaired and ruts within wetlands need to be carefully graded out. Add appropriate access (mats) to remove the structure. Stabilize the area as soon as possible. Ensure removal crews observe wetland boundaries. 1/22-1/28/08	Needs attention.
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). 1/28/08	Consider adding stone to the portion of access road adjacent to wetlands. 11/12-1/28/08	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. 1/28/08	Continue to monitor for final stabilization and cover. 1/28/08	NA
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 1/28/08	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 1/28/08	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	The foundation is in place above the riprap stream channel bypass.	Monitor this area closely as the site is still disturbed and adjacent to	Consider restoring this area as soon as possible.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	The area appears contained. Controls are in place around the pad. 1/28/08	a stream. (since 10/15) Stabilize within the D&M timelines if work is not returning. The area is over 21 days. 11/26- 1/28/08	
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. 11/19-1/28/08	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. 11/19-1/28/08	Controls were installed but restoration is needed within 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. 10/29-1/28/08	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). 11/5-1/28/08	Stabilize as soon as possible.
	The sub-base lay down site remains within the wetlands in order to access an existing pole. Controls remain in place. 12/10-1/28/08	In accordance with the D&M expedite activities within the wetlands and remove gravel/restore the area as soon as possible. 12/10-1/28/08	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. 1/28/08	Continue to monitor and add controls as needed. 1/28/08	NA
Black Pond	Controls remain in place at Black Pond Jct. and provide sufficient coverage at the wetland/ pad edge. 1/28/08	Monitor controls carefully and adjust as necessary due to adjacent wetlands Stabilize the area in the approved timelines. 11/26-1/28/08	Restoration needed upon completion of work.
Inland Wetland and Watercourse encroachment and mitigation	ACOE permit is in hand.	Perform work in wetlands under the permitted guidelines. 1/28/08	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
	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. 12/10-1/28/08	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. 12/10-1/28/08	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.;	A number of wetland crossings (via timber mats) remain. Adjacent controls were in place. 1/28/08	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 1/28/08	NA
Walnut Dr.; Johnson Ln.; Foot Hills Rd.) Scovill SS west to Chestnut Junction	Timber mats and culverts are in place at wetland crossings in this section 1/28/08	All crossings are temporary and will require restoration upon project completion 1/28/08	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- 1/28/08	If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-1/28/08	Needs evaluation
	Large, deep ruts in the wetlands (noted since 12/17) have been partially filled and covered. More attention will be needed upon final restoration. 1/28/08	Area needs to be carefully graded and stabilized upon final restoration of the site. 1/28/08	Area has been partially graded and is stable.
	Controls remain around the pad and edge of wetlands within the golf course, but turbid run-off is entering the wetlands from the access road during active times. 11/26-1/28/08	Monitor this area closely and continue to add controls as needed. See access roads section. 1/28/08	Needs attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
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 sediment. 1/28/08	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. 1/28/08	Needs evaluation/ attention.
	Equipment accessed a wetland area without mats in order to remove a structure. Controls were damaged and ruts were observed. 1/22-1/28/08	Ruts need to be repaired carefully and stabilized. Ensure all crews observe wetland boundaries and mats are used for access. 1/22-1/28/08	Needs attention
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. 1/28/08	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. 10/22-1/28/08	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. 11/12-1/28/08	Monitor controls closely. Perform final restoration in all areas when feasible. Provide temporary stabilization sufficient for winter months on any areas of exposed soil. 1/28/08	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. 11/5-1/28/08	Monitor controls and stabilize soils as soon as possible. See erosion controls section. Stabilize in accordance with D&M timelines. 1/28/08	Restore as soon as possible.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	The sub-base lay down pad remains in the wetlands north of High Hill Rd. 1/28/08	Expedite work and remove gravel and restore as soon as possible. 12/10-1/28/08	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. 1/28/08	November 1 st was the start of the wood turtles dormant season; Sweeps at this last pad can cease until the active season begins in April. 1/28/08	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. 1/28/08	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 1/28/08	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 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 cover and revegetation noted in many areas. 1/28/08 Contractors have stated	Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover. 1/28/08 Grass seed will not germinate now do to weather so alternative stabilization measures should be considered. The D&M states that	In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan Contractors have
Remaining work areas	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 that time in most places.	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 as needed). Silt	provided a schedule but weather may not cooperate. Needs attention within timelines provided

Areas of Inspection	Observation	Recommended Action	Corrected Action
	1/28/08	fence/ haybales/ fiber rolls alone are not sufficient. 11/26-1/28/08	
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. 1/7-1/28/08	Monitor and ensure the area is stable. 1/28/08	Needs to be monitored
	Some large areas of exposed soil remain adjacent to wetlands in these sections. 1/28/08	Maintain controls and monitor for vegetative growth. Attend to the remaining areas within the approved timelines. 11/12-1/28/08	Needs attention within timelines
Dewatering Oxbow Junction to Beseck SS	Dewatering will continue at new foundations as needed. 1/28/08	Continue to restore areas that are inactive. 1/28/08	NA
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation	Dewatering basins remain in place at some pad sites. 1/28/08	Continue to restore areas within timeframes. 1/28/08	Continue working on restoration
Blasting	No blasting is proposed. 1/28/08	None 1/28/08	NA
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 1/28/08	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 1/28/08	NA
	Concrete washout containment was noted in the form of lined, dug basins in several locations. 1/28/08	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 1/28/08	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. 1/28/08	Continue to locate hazardous materials and equipment away from wetland inlets such as culverts and CBs. 1/28/08	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
Little Lane	Stockpiles were removed, silt fence was installed but stabilization of exposed soils needed. 1/22-1/28/08	Provide temporary stabilization. See erosion control section. 1/22- 1/28/08	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. 1/28/08	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 1/28/08	NA at this time
Additional Observations	None. 1/28/08	None. 1/28/08	NA

Next	likely	sched	luled
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inspection: Tuesday February 4, 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



Foot Hills Rd: Minor grading and pad work was underway.



Johnson Ln: A small stockpile was removed and the area was mulche and seeded



Black Walnut Dr. Minor pad work underway in preparation for line pulling activities.



Black Walnut Dr: Final grading completed adjacent to the access roa Hay mulch and seed have been applied in reclaimed areas.



Powder Hill Rd: Minor pad work and restoration work underway east of the roadway.



North of Beseck SS: Line work underway moving north from the switching station.



E. Meriden SS: Line work was underway. Small eroded, rill channels were forming along a pad slope. Run-off was contained to site but provide stabilization when conditions permit.



North of East Main Street: Line workers were preparing to install insulators.