

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: December 31, 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: 1.03” of precipitation was recorded in the week prior to inspection with 0.42” falling on 12/29 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	Access roads and stone tracking pads are installed along the ROW. 12/31/07	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 12/31/07	Not Applicable (NA)
Scovill SS west to Chestnut Junction			
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. 12/31/07	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. 12/31/07	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; Valley View Dr.;	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. 12/31/07	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. 12/31/07	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/	Sweep Durham Rd. as needed. Provide timber mats to reduce impact if further access is necessary. Contractors are working to determine	Needs evaluation

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Durham Rd. to Elihu Dr.	<p>compressing into the wetland in some locations. 9/4-12/26/07 Sediment is migrating/accumulating over the stone road and pad (since 10/9). 12/31/07</p>	<p>the status of this road. See wetland section for more details. 12/31/07</p>	
	<p>Several small eroded ruts noted along the slope at the access road. Area is not in the vicinity of the wetlands. 12/26-12/31/07</p>	<p>Monitor the area and repair ruts when feasible. 12/31/07</p>	<p>Needs maintenance when feasible.</p>
	<p>Deep ruts remain where equipment had driven into the wetlands to perform work a few weeks ago. (since 12/10) Half of the access road is flooded from the adjacent wetlands. 12/31/07</p>	<p>Regrade/stabilize disturbed areas as needed. 12/10-12/31/07 Stay out of flooded areas to the extent feasible. Controls will be needed if work/access occurs in flooded areas in order to prevent turbid run-off. 12/31/07</p>	<p>Needs attention.</p>
	<p>Heavy ruts were noted at the end of timber mats in the golf course. 12/3-12/31/07 When the area is active, turbid water is noted at the wetland crossing to structure #24520 and timber mats are compressing into the mud 11/26-12/31/07</p>	<p>Repair ruts and 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. 11/26-12/31/07. Work in this area is almost complete. 12/10-12/31/07</p>	<p>Needs attention.</p>
East of Beseck SS	<p>A stone pad remains in place at the original ROW access off Carpenter Ln. in order to prevent sediment tracking. 12/31/07</p>	<p>Carpenter Lane should be swept on a regular basis. 12/31/07</p>	<p>Needs regular attention</p>
	<p>Turbid run-off from the access road was observed entering the detention sediment trap associated with Beseck. 12/31/07</p>	<p>Add controls as needed to the access road adjacent to the sediment trap. 12/31/07</p>	<p>Needs attention.</p>
<p>Black Pond Junction to Beseck SS ROW, North of Beseck</p>	<p>Water bars remain along the access road to divert</p>	<p>Continue to monitor and adjust controls as needed.</p>	<p>Continue to evaluate.</p>

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<p>SS</p> <p>South of High Hill Rd. crossing (vicinity of East Meriden SS)</p>	<p>run-off. Grass growth and vegetation is helping to reduce erosion and filter stormwater but more stabilization may be necessary where water is diverted. 12/31/07</p> <p>Access road crosses several streams and wetlands in this section. 12/31/07</p> <p>Timber mats and sediment remain in place over the riprap stream bypass following active work here. 10/9-12/31/07</p>	<p>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. 12/31/07</p> <p>Monitor area for run-off and add controls as needed. 12/31/07</p> <p>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. 10/9-12/31/07</p>	<p>Needs regular attention.</p> <p>Needs to be monitored/evaluated.</p>
<p>Foundation and site construction</p> <p>Scovill SS west to Chestnut Junction</p> <p>Oxbow Junction to Beseck SS</p> <p>Black Pond Junction to Beseck SS</p>	<p>No active work will occur as contractors are on a two week break for the holiday season. 12/31/07</p>	<p>NA 12/31/07</p>	<p>NA</p>
<p>Erosion and sediment controls</p> <p>All areas</p> <p>Scovill SS west to Chestnut Junction</p> <p>Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.</p> <p>Oxbow Junction to Beseck SS</p> <p>Oxbow Jct. To Arbutus Street</p>	<p>As crews had been plowing snow to reach some work sites, they have the potential to damage controls and push snow into wetlands. 12/31/07</p> <p>Some water bars along the access road have deteriorated as a result of snow plowing. 12/31/07</p> <p>Timber mats, silt fence, and filter socks remain along the access road and at the wetland crossings. 12/31/07</p> <p>Controls (Haybales, filter socks) filter water as it leaves the site, including</p>	<p>Caution should be taken when plowing access roads not to damage controls or place snow over controls in wetlands. See remaining entries in this section for specific locations. 12/31/07</p> <p>Continue to maintain and monitor water bars for effectiveness. Ensure water is directed to stable areas. 12/31/07</p> <p>Continue to add controls along access road upgradient from wetlands. The area has high flow during heavy rains. 12/31/07</p> <p>Monitor controls and adjust as needed. Add controls as needed</p>	<p>Needs regular attention</p> <p>May need maintenance.</p> <p>Continue to evaluate</p> <p>NA</p>

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<p>Contractor Receiving Yard and Storage Area</p>	<p>at the turn onto the ROW and along the pond. 12/31/07</p> <p>Silt fence and fiber rolls are in place at the perimeter of the yard and drainage areas/swales but several areas need repair. 4/23-12/31/07</p> <p>Turbid water is noted on the access roads during rain events (since 12/10) and was noted in the wetlands this week. 12/31/07</p>	<p>upgradient from wetlands. 12/31/07</p> <p>Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-12/31/07</p>	<p>Needs attention/repair.</p>
<p>South of Contractor Yard Along Rte. 17 and Little Lane</p>	<p>Silt fence typically filters turbid run-off here before it leaves site. Timber mats are in place at the crossing and areas remain seeded. 12/31/07</p>	<p>Monitor and reinforce controls to ensure they adequately filter run-off. Monitor for stabilization. 12/31/07</p>	<p>NA</p>
<p>Durham Rd.</p>	<p>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. Most of the access road to structure #24521 is under water. 12/17/07</p> <p>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 (since 11/26/07). 12/31/07</p>	<p>Some controls have been added, but additional controls may be needed here. 12/31/07</p> <p>Avoid entering flooded areas unless absolutely necessary. Add controls as need to prevent run-off. 12/31/07</p> <p>Additional controls are needed along the timber mat access road at the wetland crossing in an effort to contain turbidity. 11/26-12/31/07</p>	<p>Needs to be monitored</p> <p>Needs attention.</p>
<p>Rt 157 (east & west) & Elihu drive</p>	<p>Controls were in place along pad sites. 12/31/07.</p>	<p>Continue to monitor until final stabilization is achieved. 12/31/07</p>	<p>NA</p>
<p>Powder Hill Rd.</p>	<p>Numerous controls remain in place along the access road. Filter socks</p>	<p>Remove sediment accumulated around the controls and vegetation.</p>	<p>Some controls are working well but sediment accumulation</p>

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	<p>and haybales remain upgradient of the stream and pond (both sides) at the base of slope. Sediment accumulation has occurred at the controls. 8/20-12/31/07</p> <p>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. 12/31/07</p>	<p>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. 12/31/07</p> <p>Controls should be maintained along the access road as needed especially around wetlands. Remove and stabilize the access road upon completion of work to provide final restoration for the site. 12/31/07</p>	<p>needs proactive attention/evaluation when feasible.</p> <p>Controls need maintenance along the access road.</p>
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). 12/31/07	Consider adding stone to the portion of access road adjacent to wetlands. 11/12-12/31/07	Needs attention.
West of Beseck SS	The area west of Beseck SS remains mulched and seeded. 12/31/07	Continue to monitor until final stabilization is achieved. Adjust controls as necessary. 12/31/07	NA at this time.
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. 12/31/07	Continue to monitor for final stabilization and cover. 12/31/07	NA
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 12/31/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 12/31/07	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. 12/31/07	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 returning. The area is over 21 days. 11/26-	Restoration needed per approved timelines.

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>South of High Hill Rd.</p>	<p>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. 11/19-12/31/07</p>	<p>12/31/07 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. 11/19-12/31/07</p>	<p>Controls were installed but restoration is needed within timelines.</p>
<p>High Hill Rd. (north to Black Pond)</p>	<p>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. 10/29-12/31/07</p> <p>The sub-base lay down site remains within the wetlands in order to access an existing pole. Controls remain in place. 12/10-12/31/07</p> <p>Controls are still needed at large disturbed areas adjacent to wetlands to the south of East Main St. 11/5-12/31/07</p> <p>Snowplows have also pushed snow (containing sediment/stone) from the pad site into the wetlands. 12/26-12/31/07</p>	<p>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). 11/5-11/19/07 This area is over 21 days.11/19-12/31/07</p> <p>In accordance with the D&M expedite activities within the wetlands and remove gravel/restore the area as soon as possible. Timber mats may be a better option in future situations like this. 12/10-12/31/07</p> <p>Add controls around the disturbed area and provide temporary stabilization in the approved timelines. 11/12-12/26/07</p> <p>Snow should not be plowed into wetlands as it deposits sediment/ stone. Pull the existing snow back and repair controls. 12/26-12/31/07</p>	<p>Needs attention and restoration.</p> <p>Needs to be monitored and expedited.</p> <p>Needs attention. Restoration needed per approved timelines</p> <p>Needs attention.</p>
<p>Black Pond</p>	<p>Controls remain in place at Black Pond Jct. and provide sufficient coverage at the wetland/ pad edge. 12/31/07</p>	<p>Monitor controls carefully and adjust as necessary due to adjacent wetlands Stabilize the area in the approved timelines. This</p>	<p>Restoration needed per approved timelines.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
		area is over 21 days. 11/26-12/31/07	
<p>Inland Wetland and Watercourse encroachment and mitigation</p> <p>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.)</p> <p>Scovill SS west to Chestnut Junction</p> <p>Oxbow Junction to Beseck SS</p> <p>Durham Rd.</p>	<p>ACOE permit is in hand.</p> <p>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 when work is complete. 12/10-12/31/07</p> <p>A number of wetland crossings (via timber mats) remain. Adjacent controls were in place. 12/31/07</p> <p>Timber mats and culverts are in place at wetland crossings in this section 12/31/07</p> <p>Sediment migration/accumulation was noted over the stone road and pad. More controls may be needed here. 10/9-12/31/07</p> <p>The access road is largely underwater. 12/31/07 Large, deep ruts remain in the wetlands from the equipment access several weeks ago. 12/31/07</p> <p>Controls remain around the pad the edge of</p>	<p>Perform work in wetlands under the permitted guidelines. 12/31/07</p> <p>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. 12/10-12/31/07</p> <p>Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 12/31/07</p> <p>All crossings are temporary and will require restoration upon project completion 12/31/07</p> <p>If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-12/31/07</p> <p>More controls will be needed if access occurs. Avoid if feasible. 12/31/07 Area needs to be carefully graded and stabilized. 12/31/07</p> <p>Monitor this area closely and continue to add</p>	<p>NA</p> <p>Needs to be assessed.</p> <p>NA</p> <p>NA</p> <p>Needs evaluation</p> <p>Avoid area if feasible.</p> <p>Needs attention.</p> <p>Needs attention.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Powder Hill Rd.</p>	<p>wetlands within the golf course, but turbid run-off is entering the wetlands from the access road during active times. 11/26-12/31/07</p> <p>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. 12/31/07</p>	<p>controls as needed. See access roads section. 12/31/07</p> <p>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. 12/31/07</p>	<p>Needs evaluation/attention when access is complete.</p>
<p>East of Beseck SS</p>	<p>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 this week from the access road. 12/31/07</p>	<p>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. 10/22-12/31/07</p>	<p>Additional attention is needed.</p>
<p>Black Pond Junction to Beseck SS Fleming Rd. High Hill Rd. South to East Meriden Substation and north to Black Pond</p>	<p>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. 11/12-12/31/07</p> <p>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. 11/5-12/31/07</p>	<p>Monitor controls closely. Perform final restoration in all areas when feasible. Provide temporary stabilization sufficient for winter months on any areas of exposed soil. 12/31/07</p> <p>Monitor controls and stabilize soils as soon as possible. See erosion controls section. Stabilize in accordance with D&M timelines. 11/5-12/3/07 This area is over 21 days. 11/26-12/31/07</p>	<p>Restoration needed within timelines.</p> <p>Restoration needed per approved timelines.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
	<p>The sub-base lay down pad remains in the wetlands north of High Hill Rd. 12/31/07</p> <p>Snow mixed with sediment was pushed into the wetlands south of East Main St. during plowing activities. 12/26-12/31/07</p>	<p>Expedite work and remove gravel and restore as soon as possible. Consider using timber mats for future situations in similar circumstances. 12/10-12/31/07</p> <p>Remove snow and sediment from wetlands. Snow should never be placed/plowed into wetlands due to the sediment it contains. 12/26-12/31/07</p>	<p>Needs to be expedited.</p> <p>Needs attention.</p>
<p>State species of concern, threatened and endangered species.</p> <p>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</p>	<p>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. 12/31/07</p> <p>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. 12/31/07</p>	<p>November 1st was the start of the wood turtles dormant season; Sweeps at this last pad can cease until the active season begins in April. 12/31/07</p> <p>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 12/31/07</p>	<p>NA at this time</p> <p>Continue to monitor</p>
<p>Vegetative clearing or stabilization</p> <p>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</p>	<p>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. 12/31/07</p>	<p>Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover. 12/31/07</p> <p>Grass seed will not germinate now do to weather so alternative stabilization measures</p>	<p><i>In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan</i></p> <p>Grass growth and natural revegetation noted in many areas.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Oxbow Junction to Beseck SS Arbutus St.	Sanitary facility has tipped over at the ROW entrance in this location. 12/17-12/31/07	Secure the facility and clean the spill appropriately. 12/17-12/31/07	Needs attention.
Contractor Receiving Yard and Staging Area	Materials are being stored and structures staged in this area. Fuel tanks are not present. 12/31/07	Continue to locate hazardous materials and equipment away from wetland inlets such as culverts and CBs. 12/31/07	NA
Little Lane	Stockpiles from other sites were being stored here. 11/26-12/31/07	Add controls if soil is to remain here. 11/26 - 12/31/07	Needs attention if soil remains.
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 12/31/07	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 12/31/07	NA at this time
Additional Observations	None. 12/31/07	None. 12/31/07	NA

Next likely scheduled inspection: Monday January 7, 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



Arbutus St: Sanitary facility remains tipped over but crews are on break.



Durham Rd: View of the ruts created off the edge of the timber mats in the wetlands. This occurred several weeks ago when equipment was anchoring lines. Once crews return from break, this should be carefully repaired.



Carpenter Ln: Turbid water from access road run-off was noted in the sediment trap adjacent to Beseck.



S. of East Main St: Prior to the break, snow was plowed into a wetland and a flowing channel. Remove the snow and associated sediment as soon as possible.