

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 2a Inspection

Date: May 28, 2008

Inspector: Matthew Creighton

Location: Segment 2a – Beseck Switching Station to Cheshire/Hamden Town Line

Rainfall: 0.99” of precipitation was recorded in the week prior to inspection, with 0.47” falling on 5/27 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways	Timber mats are in place at wetland crossings and staging areas. 5/28/08	See Erosion Control Section for more details 5/28/08	Not applicable (NA)
Carpenter Ln. to Rte 68	<p>South of Carpenter Ln, a large area upgradient remains rutted, muddy, and disturbed following activity (since 4/1). Contractor is now mobilizing in this area and has begun restoration off High Hill Rd. 5/28/08</p> <p>Stone was installed within the wetlands (4/15). BSC was informed that crews are reducing the overall wetland impact by eliminating one of the proposed access roads to the structures. A spur road between the two sets of structures was created instead but it is unclear whether work is complete. 5/28/08</p> <p>Material that was stockpiled at the edge of the wetland (since 4/29) was pushed into the wetlands to extend the pad (5/13). New controls were installed across the</p>	<p>See the erosion control section for more details. Continue to sweep the roadway as needed. 5/28/08</p> <p>Evaluate the placement of the new stone to determine whether impacts can be even further reduced by using the existing access footprint. Culverts will need to be installed. Monitor new controls and replace as needed. 5/28/08</p> <p>See erosion control section.</p>	<p>See erosion control section. Restoration underway.</p> <p>Needs evaluation. See erosion control section.</p> <p>New controls were installed.</p>

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<p>Durham Rd. Liney Hall Ln.</p>	<p>outlet. 5/28/08</p> <p>An equipment bridge crossing remains over the Muddy River tributary and a second bridge is in place off Liney Hall Rd. Restoration is underway north of Durham Rd at the access road and pad sites. Additional timber mats were placed within the flooded portion of the crossing south of Durham Rd. to reduce turbid water. The new mats were working well but sediment was noted on the mats that weren't doubled up. Sediment was still overwhelming the controls in this location. 5/28/08</p> <p>The ruts at the Liney Hall Ln. ROW access (noted since 3/11) have been graded and seeded. 5/28/08</p> <p>Snow and stone had been plowed onto the timber mats and subsequently into the wetlands (since 2/26). Timber mats and most of the stone have been removed, however some small amounts of access rd. stone remains within the wetland. 5/20-5/28/08</p>	<p>Continue to monitor and add controls as needed. Keep equipment out of the access road south of Durham Rd (if possible), while it is flooded.</p> <p>Evaluation and hand removal of sediment will be needed along the timber mats to prevent further disturbance. 5/28/08</p> <p>Continue to sweep the roadway on a regular basis. 5/28/08</p> <p>Continue to carefully remove the remaining stone, by hand, from the wetlands. 5/20-5/28/08</p>	<p>Additional mats were installed at the wetland/stream crossing at Durham Rd.</p> <p>Sediment still requires attention.</p> <p>NA at this time.</p> <p>Some stone removed. Minor attention still needed.</p>
<p>Williams to Stony Brook</p>	<p>Final restoration and access road narrowing was underway. Stone removal and grading at several pad sites. 5/28/08</p>	<p>Continue to restore completed areas and maintain controls as needed. 5/28/08</p>	<p>Access road narrowing underway.</p>
<p>Tamarack Swamp Rd.</p>	<p>Access road within the pasture east of the roadway includes wetland crossings via culverts. Roadway is free of sediment. Timber mat</p>	<p>Clean/sweep roadway as needed during work and monitor controls at wetland crossings. Stabilize exposed soils during restoration,</p>	<p>Timber mats have been removed around structure 24254.</p>

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<p>Williams; S. Turnpike + Merritt Parkway; Mansion Rd.; Durham Rd.; Stony Brook; Pent Rd.; Oliver Creek Rd.</p>	<p>access road and pad were removed to structure 24254. Final restoration is complete at other access points along the roadway. 5/28/08</p> <p>No sediment tracking was noted on any of these roadways and the adjacent areas appear stable. Stone construction entrance pads remain in place at entrances. 5/28/08</p>	<p>following timber mat removal. Continue to monitor and see erosion control section for details. 5/28/08</p> <p>Continue to monitor entrances and sweep as needed. 5/28/08</p>	<p>NA</p>
<p>Pond Hill Rd. Docker Dr.</p>	<p>ATVs have been causing ruts and disturbance in areas between Pond Hill Rd and Docker Dr. (since 12/4). Contractor has placed heavy mulch along the slopes at Docker (since 4/29) to stop erosion problems from getting worse. 5/28/08</p>	<p>Contractors have made efforts to stabilize the area several times but ATV traffic is high in this area. Mulch should help reduce the impacts from ATV's. See erosion control section for more details. 5/28/08</p>	<p>Continue to monitor. Mulch was improving the ATV issue.</p>
<p>Mansion Rd to Tuttle Ave.</p>	<p>A culvert remains in place to help prevent ponding on the access road. Water bars remain in place across the access road to slow and filter stormwater. 5/28/08</p>	<p>Monitor the area and add controls if needed. 5/28/08</p>	<p>NA</p>
<p>Old Farms Road</p>	<p>Plywood is being used on driveways crossing the ROW to reduce the impact from equipment. 12/18-5/28/08</p> <p>Drainage swale/ waterbar was installed at the low, saturated area along driveway (1/15). Turbid water was not noted leaving the driveway via this swale. 5/28/08</p> <p>Equipment has damaged</p>	<p>Continue to monitor for sediment on roadway and driveways; continue to use rubber mats or plywood to protect driveways. 12/18-5/28/08</p> <p>Additional controls are needed here for heavy rains, potentially haybale check dams along the swale when working. 5/28/08</p> <p>Remove stone upon</p>	<p>NA at this time</p> <p>Needs attention when working in saturated conditions.</p> <p>Needs evaluation and</p>

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	<p>the access driveway for overhead work. (Since 1/8) Stone remains at the access driveway over the pavement to reduce tracking and run-off. 5/28/08</p> <p>The previously hydroseeded area along the shoulder of the roadway is rutted and disturbed from vehicle access. 1/8-5/28/08</p>	<p>completion of work and evaluate and repair the driveway as needed where damaged. 1/22-5/28/08</p> <p>Re-grade and restore the rutted areas when feasible. 1/8-5/28/08</p>	<p>attention upon project completion.</p> <p>Needs attention when feasible.</p>
<p>Foundation and site construction</p>	<p>Crews were mobilizing off Carpenter Ln and High Hill Rd, restoration activities underway. 5/28/08</p> <p>Grading and restoration is underway off Durham Williams and Stony Brook Rds. 5/28/08</p>	<p>Maintain controls during restoration. Monitor restored areas for stabilization 5/28/08</p> <p>See Erosion control section. 5/28/08</p>	<p>Restoration underway.</p> <p>See erosion control section.</p>
<p>Erosion and sediment controls Carpenter Ln. to Rt. 68</p>	<p>The high flow that is present, during heavy rains, within the ditch/outlet here will not allow haybales to remain in place. New haybales were installed with a line of silt sock to maintain a control barrier in the fast moving water while work is taking place. The stone/sediment pile that was left in/adjacent to the wetlands was pushed into the wetlands (5/13) to extend the pad. 5/28/08.</p> <p>Area upgradient is heavily rutted and disturbed from activities (since 3/18). Equipment is mobilizing to begin restoration. 5/28/08</p> <p>Steep slope off High Hill Rd. has a small, eroded washout channel. ATV tracks were also noted</p>	<p>Ensure controls are in place and effective during active work or rain events due to the adjacent exposed soil. 5/28/08</p> <p>See Inland wetland section.</p> <p>Disturbed areas will need temporary stabilization. Provide additional attention to establish vegetative cover. 3/18-5/28/08</p> <p>Evaluate measures to keep ATVs out of the area. Regrade and add controls as needed to the</p>	<p>New controls have been added.</p> <p>Equipment is mobilizing in the area.</p> <p>Final restoration underway.</p>

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<p>Durham Rd. Liney Hall Ln.</p>	<p>disturbing the vegetative cover in this area. Water bars are installed to contain and filter stormwater. Restoration activities are underway and hay/seed spread on disturbed areas. 5/28/08</p> <p>Controls remain intact along the access road and bridge south of Durham Rd. additional timber mats and haybales were placed over the flooded section of access road to reduce sediment runoff. One section still has mud accumulation and needs additional mats if more work/access is needed. Restoration complete in this area except the access road. 5/28/08</p>	<p>slope. Monitor final stabilization procedures for effectiveness. 5/28/08</p> <p>Carefully remove sediment from wetlands and place mats in the muddy section if additional access is needed. See Access Road and Inland wetland sections for more information on this area. 5/28/08</p>	<p>Restoration was complete in this area except for the access road. Mats were added but may still need attention.</p> <p>Sediment in the wetlands needs evaluation and attention.</p>
<p>Williams Rd to East Center St.</p>	<p>ROW north of Durham Rd. and pad sites were being reclaimed during the inspection. 5/28/08</p> <p>Restoration underway from Williams to Stony Brook Rds. Access roads and pads were being removed. 5/28/08</p> <p>Two small detention basins were used as slurry dewatering areas. Silt fence and a mulched berm are in place around the basins. Basins are dry. 5/28/08</p>	<p>Monitor for vegetative cover until stable. 5/28/08</p> <p>Add controls as needed in this area. Stabilize soils when applicable. 5/28/08</p> <p>If these pump-out areas are no longer needed, they should be final graded and stabilized when feasible. 5/28/08</p>	<p>Restoration underway.</p> <p>Restoration underway.</p> <p>NA</p>
<p>Tamarack Swamp Rd.</p>	<p>The pad on the west side of roadway was final graded and mulch/ seed was applied. Some sediment was removed from the wetlands. The encroachment at the wetland pad that occurred both during installation and wire</p>	<p>Final restoration of this area is complete. 5/28/08 See Inland wetland section for more details</p>	<p>Final restoration measures are complete.</p>

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<p>Powers Rd. Woodhouse Ave. Harrison Rd.</p>	<p>grounding remains but contractors have stated the pad is within the permitted size. 5/28/08</p> <p>On the east side, the reclaimed area has been mulched, and seeded. Timber mats within the wetlands at structure 24256 were removed. 5/28/08</p> <p>Controls remain downgradient of the bypass access road off Powers Rd. Reclamation activities are still proposed for the pad. 5/28/08</p> <p>The stone settling and overflow area installed at the outlet at Harrison Rd appears to be working well for handling stormwater run-off issues during heavy rain. Water has been percolating through the riprap pad with no observable erosion. 5/28/08</p>	<p>Continue to final grade and stabilize exposed areas. Monitor areas for final vegetative cover. 5/28/08</p> <p>Continue to stabilize the area and maintain controls. 5/28/08</p> <p>This area should be monitored closely to evaluate the effectiveness over time. Any existing exposed soils should be stabilized upon completion of work. 5/28/08</p>	<p>Timber mats removed at structure 24256.</p> <p>NA at this time.</p> <p>The new stormwater solution appears to be working well.</p>
<p>Pond Hill Rd. & Docker Dr. (I 91 – Rte. 5)</p>	<p>A layer of heavy bark mulch has been applied along the slopes off Docker to stop the erosion/gulying issues. The mulch appears to hold up well to ATV traffic. 5/28/08</p>	<p>Continue to maintain controls and monitor the effectiveness against the ATV traffic. ATV traffic will be difficult to control as they are accessing from abutting land and have always disturbed this area. 5/28/08</p>	<p>Heavy bark mulch is holding up to ATV traffic.</p>
<p>Old Farms Rd.</p>	<p>Turbid run-off was noted several times (since 11/6) from work near structure #24209, on the access roads, and roadway. A drainage swale is in place (since 1/16) to prevent turbid run-off from the saturated driveway crossing however, run-off was noted during heavy</p>	<p>Continue to stabilize disturbed areas to the extent feasible and ensure the area is contained by controls, including CB liners, as needed to filter run-off. Additional controls should be used in the drainage areas. 5/28/08</p>	<p>Continue to evaluate and stabilize.</p> <p>Area needs additional attention when active, in periods of heavy rain.</p>

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	rains when active. 5/28/08		
<p>Inland Wetland and Watercourse encroachment and mitigation</p> <p>Carpenter Ln. to Rte 68</p>	<p>Work has occurred in jurisdictional wetlands under an ACOE permit</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 of adjacent upland areas when work is complete. 5/28/08</p> <p>Sections of ROW are located within the McKenzie Watershed Protection District of the Town of Wallingford from existing pole #8798 to Beseck SS. 5/28/08</p> <p>Some of the timber mat and stone staging areas remain in place within wetlands off Carpenter Ln. The large disturbed upgradient from wetlands (since 3/18) will be restored shortly. Restoration crews were working in this area. 5/28/08</p> <p>The small pile of stone and material from recent work was pushed into the adjacent standing water to extend the pad (since 5/13). Controls have been installed at the outlet channel. 5/28/08</p>	<p>Approved work in wetlands will follow the permit guidelines. 5/28/08</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. Weather is conducive to restoration. 5/28/08</p> <p>This area should be closely monitored. Monitor equipment for leaks whenever working in these sensitive areas. Refuel and store equipment outside of the district. 5/28/08</p> <p>Continue to remove any staging areas from the wetlands as soon as feasible and monitor for sufficient stabilization. 3/18-5/28/08</p> <p>Check the location of the material and ensure it is needed and in the correct location. Monitor new controls while working in wetlands. Culverts were supposed to be installed from east to west as a possible solution to turbidity before initiating more stone work. 5/13-</p>	<p>NA</p> <p>Restoration underway in many areas.</p> <p>Needs to be monitored</p> <p>Restoration work is underway.</p> <p>New controls were installed. Continue to evaluate.</p>

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<p>Durham Rd. Liney Hall Ln.</p>	<p>The access off Durham Rd. is flooded, and restoration crew traffic had created turbid water and mud, which has overwhelmed controls (5/20). Additional controls and timber mats were installed to fix the problem, however sediment removal is still needed. 5/28/08</p>	<p>5/28/08</p> <p>Monitor additional controls and add new controls as needed. Sediment evaluation and removal from wetlands is needed. Avoid equipment access through flooded areas if feasible. 5/28/08</p>	<p>Additional controls installed.</p> <p>Sediment in wetlands needs attention.</p>
<p>Tamarack Swamp Road</p>	<p>Timber mats located in wetlands off Liney Hall Ln have been removed. Some of the stone has been removed however minor amounts of access rd stone remain and will need to be removed by hand. 5/20-5/28/08</p> <p>Final restoration complete at the southeastern and southwestern entrance. Timber mats were removed at structure 24256. 5/28/08</p>	<p>Remove remaining access road stone, by hand, from wetlands as needed. Monitor exposed soils and stabilize. 5/20-5/28/08</p> <p>Monitor exposed soils from timber mat removal and adjacent controls. Previous encroachment of fill was not reduced but remains within permitted limits. 5/28/08</p>	<p>Minor stone removal still needed.</p> <p>Final restoration complete at the two southern entrances.</p>
<p>Powers Rd. & Woodhouse Ave.</p>	<p>Soils exposed by timber mat removal were seeded, but not all stone was removed from the wetland prior to seeding (noted 9/25) Well-established grass cover is in place. 5/28/08</p>	<p>Remove the stone from the wetlands to the extent feasible (recommended since 9/25). Work appears completed in this area and restoration should soon begin. 5/28/08</p>	<p>Area needs attention during final restoration</p> <p><i>Areas of remaining stone piles in the wetland will be marked by BSC.</i></p>
<p>Mansion Rd to Tuttle Ave.</p>	<p>Several wetland crossings are in place. Clear water was noted at all crossings and drainage ditches are working well. 5/28/08</p>	<p>Monitor and maintain controls. Crossings will need to be restored when access needs are complete. 5/28/08</p>	<p>NA at this time.</p>
<p>State species of concern, threatened and endangered species.</p>	<p>A no entry sign remains near the potential vernal pool off Stony Brook Rd. as an appropriate alternative to construction fencing,</p>	<p>Continue to monitor area and retain distance from active work. 5/28/08</p>	<p>NA</p>

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<p>Durham Rd.</p> <p>Liney Hall Rd</p> <p>Woodhouse Ave; Harrison Rd. Mansion Rd. to Tuttle Ave</p>	<p>5/28/08</p> <p>Egg masses and tadpoles have been noted in the wetlands and on the timber mats. 5/28/08</p> <p>Several frog and salamander egg masses were noted last spring within prime amphibian breeding habitat, located off Liney Hall Ln. This is not a state listed species issue but indicates good amphibian breeding habitat. 5/28/08</p> <p>Evidence of Eastern Box turtles has been confirmed off Woodhouse Ave on 5/8/07 and in the section between Mansion Rd. and Tuttle Ave on 7/17/07. 5/28/08</p>	<p>Keep off timber mats if feasible until water subsides. 5/28/08</p> <p>Prevent turbidity and direct impacts to these areas to the extent feasible. 5/28/08</p> <p>Both areas should receive the same attention as known protected habitat area along the ROW. The dormant season has ended as of April 1st and sweeps for turtles are required prior to accessing the site. 5/28/08</p>	<p>NA at this time.</p> <p>NA Location of pool is outside the work area.</p> <p>Eastern Box turtles active season has begun and sweeps are needed.</p>
<p>Vegetative clearing or stabilization</p> <p>Most work areas Have been cleared</p> <p>Woodhouse Ave and Harrison Rd.</p> <p>Pond Hill Rd. &</p>	<p>Vegetation was preserved in areas where invasive species were not dominant. 5/28/08</p> <p>Final restoration continues off High Hill, Durham, Williams, and Stony Brook Rds. Areas were being graded, seeded and mulched. 5/28/08</p> <p>As requested by state representatives and Siting Council staff, native shrubs were planted (9/18) in clusters to provide shading for Allen Brook. 5/28/08</p> <p>Contractors have spread</p>	<p>Retain vegetation where feasible; confirm that cutting is limited only to areas defined in D&M plan. Be extremely mindful of the extent of clearing flags. 5/28/08</p> <p>The D&M states that areas should be temporarily stabilized if work will not return in 21 days. Final restoration has begun. 5/28/08</p> <p>Continue to monitor and replace shrubs if needed. B&M intends to inspect the survival status of the shrubs in the near future. 5/28/08</p> <p>See erosion control</p>	<p>NA</p> <p>Final stabilization continues.</p> <p>NA at this time.</p> <p>NA at this time.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Docker Dr. (I 91 – Rte. 5) Pent Rd. & Oliver Creek Rd.	heavy bark mulch over the exposed areas and rills/gullies for stabilization (since 4/29). 5/28/08	section. Monitor new controls for effectiveness. 5/28/08	
Old Farms Rd. (115kV Underground trench-work)	Previously hydroseeded areas along the shoulders of Old Farms Rd. also have ruts and disturbance. 12/26-5/28/08	Regrade the disturbed/rutted area and stabilize. 5/28/08	Needs minor grading
Dewatering	It appears all foundations and dewatering is complete at this time. 5/28/08	Remove and stabilize old dewatering pits as necessary. 5/28/08	NA at this time. Work has shifted to restoration.
Blasting	No blasting is proposed. 5/28/08	None	NA
Spills, soils and material storage	Spill control materials are being brought to sites when work is performed. This was also noted proactively south of Carpenter Ln. where restoration crews were mobilizing. 5/28/08	Always use spill control materials when working on equipment and during refueling. Replace as needed. Check equipment daily for leaks and repair as soon as possible. 5/28/08	Needs regular attention.
Additional Observations	None 5/28/08	None	

Next likely scheduled inspection:

Tuesday June 3, 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



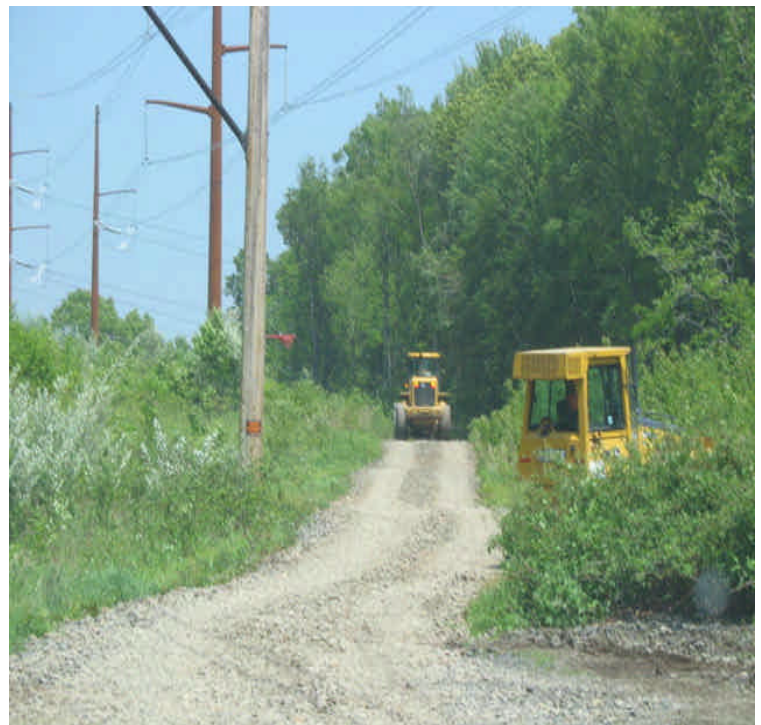
Carpenter Ln: Large area disturbed/exposed from line work. Crews continue to mobilize onsite for reclamation activities. Spill kits were also observed (proactively).



Carpenter Ln: New haybales and silt sock have been installed at the drainage outlet.



High Hill Rd: Final restoration underway. Removing stone/soils and applying hay and seed. Note the slope north of Durham Rd at final grade and seeded.



Durham Rd (north): Final grading/restoration was underway.



Durham (south): Timber mats and haybales added at flooded crossing. Additional mats and/or controls are needed when active. Sediment needs to be evaluated and removed by hand from the wetlands.



Stony Brook Rd: Final restoration of pads and access road narrowing were underway.



Tamarack Swamp Rd (southwestern side): Final grading is complete. Some sediment removed from the wetlands, hay and seed applied. Silt fence can be removed when vegetative cover has established.



Pond Hill (east): Seed germination noted following final stabilization efforts. The field has returned to its original condition.