

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: March 4, 2008

Inspector: Matthew Creighton

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

Rainfall: 0.64” of precipitation was recorded in the week prior to inspection with 0.60” falling on 2/26 (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. 3/4/08	See Erosion Control Section for more details 3/4/08	Not applicable (NA)
Carpenter Ln. to Rte 68	South of Carpenter Ln, some timber mat & stone staging areas remain within wetlands. Area is very active and becoming rutted, muddy, and disturbed. Sediment tracking was also noted on Carpenter Ln. 3/4/08	See the erosion control section for more details. The roadway will need to be swept. 3/4/08	Roadway needs attention.
Durham Rd. Liney Hall Ln.	An equipment bridge crossing remains over the Muddy River tributary and a second bridge is in place off Liney Hall Rd. Water was flowing across the road off Durham Rd 3/4/08	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. 2/20-3/4/08	Continue to restrict access at Durham Rd. if possible.
	Heavy sediment tracking was still noted from the ROW access on Liney Hall Ln. 2/26-3/4/08	Clean/sweep roadway and install more stone in the tracking pad as needed. 2/26-3/4/08	Needs attention
	Snow and stone had been plowed onto the timber mats and subsequently into the wetlands. 2/26-3/4/08	Carefully remove stone from the wetlands. When plowing snow, monitor wetland boundaries and place snow in upland areas 2/26-3/4/08	Needs attention

Areas of Inspection	Observation	Recommended Action	Corrected Action
Tamarack Swamp Rd.	<p>Plows have pushed snow and associated stone/sediment to the boundaries of the wetlands when clearing the pad. 12/26-2/26/08 Material remains contained by the controls 3/4/08</p> <p>Access road remains in place within the pasture east of the roadway. This includes wetland crossings via culverts. Roadway remains free of sediment. Turbid water has been noted flowing to controls during rain events but this was largely due to the existing conditions of the adjacent agricultural fields. 3/4/08</p>	<p>Snow should not be plowed up to or within the wetlands as it will likely result in deposition of sediment. Pull sediment back from this area and ensure controls are in good shape. 12/26-3/4/08</p> <p>Clean/sweep roadway as needed during work and monitor controls at wetland crossings. Continue to monitor and see erosion control section for details. 3/4/08</p>	<p>Determine if material is outside of work limits.</p> <p>NA at this time</p>
Powers Rd.	<p>Timber mats had been placed over the access road bypass last week for stabilization and structure. However, mats are now compressing into the soft ground and turbid run-off is flowing into the wetland boundary. 3/4/08</p>	<p>Additional controls are needed downgradient of the timber mats to prevent run-off to wetlands.</p> <p>Monitor the exposed pad site in the wetlands where the mats were taken from. 3/4/08</p>	<p>Needs attention.</p>
Williams; S. Turnpike + Merritt Parkway; Mansion Rd.; Durham Rd.; Stony Brook; Pent Rd.; Oliver Creek Rd.	<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. 3/4/08</p>	<p>Continue to monitor entrances and sweep as needed. 3/4/08</p>	<p>NA</p>
Pond Hill Rd. Docker Dr.	<p>Exposed soils remain mulched and seeded off Pond Hill Rd. However, controls were not installed at wetlands. Additional controls were installed above the wetland off Docker. ATVs have been causing ruts and disturbance in areas between Pond Hill Rd and Docker Dr. 12/4</p>	<p>Contractors have made efforts to stabilize the area several times but ATV traffic is high in this area. Evaluate ways to keep ATVs out. Return for final stabilization when the ground thaws. 3/4/08 See erosion control section for more details. 3/4/08</p>	<p>Needs attention during thaw conditions.</p>

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<p>Mansion Rd to Tuttle Ave.</p>	<p>and Docker Dr. 12/4-3/4/08</p> <p>A culvert remains in place to help prevent ponding in the access road. Water bars remain in place across the access road to slow and filter stormwater. 3/4/08</p>	<p>Monitor the area and add controls if needed. 3/4/08</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. 12/18-3/4/08</p> <p>Some CB controls were in place. Additional mulch, seed, and silt fence remain on the exposed slope at the underground to overhead transition pole. 3/4/08</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. 3/4/08</p> <p>Equipment has damaged the access driveway for overhead work. (Since 1/8) New stone remains at the access driveway over the pavement to reduce tracking and run-off. 3/4/08</p> <p>Clearing across a stream (on the way to Cook Hill Jct.) was complete. Mulch and seed remain in place for temporary stabilization. 3/4/08</p>	<p>Continue to monitor for sediment on roadway and driveways; continue to use rubber mats or plywood to protect driveways. 12/18-3/4/08</p> <p>Continue to monitor CB controls and sweep sediment as needed.</p> <p>Continue to stabilize exposed soil in the active work area as soon as feasible 3/4/08</p> <p>Additional controls are needed here for heavy rains, potentially haybale check dams along the swale. 3/4/08</p> <p>Remove stone upon completion of work and evaluate and repair the driveway as needed where damaged. 1/22-3/4/08</p> <p>Monitor this area closely as more controls may be needed to prevent run-off into the stream. 3/4/08</p>	<p>NA at this time</p> <p>Continue to stabilize; More CB controls may be needed.</p> <p>Provide additional proactive attention..</p> <p>Needs evaluation and attention upon project completion.</p> <p>Continue to monitor.</p>
<p>Old Farms Rd. (115kV Underground trench-work)</p>	<p>The previously hydroseeded area along</p>	<p>Re-grade and restore the rutted areas. 1/8-</p>	<p>Needs attention when feasible.</p>

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	<p>the shoulder of the roadway is rutted and disturbed from vehicle access. 1/8-3/4/08</p>	<p>3/4/08</p>	
<p>Foundation and site construction</p>	<p>Line work is underway from Carpenter Ln. to Liney Hall Ln. 3/4/08</p> <p>Line installation was underway through the apple orchard to Pent Rd. 3/4/08</p>	<p>Evaluate and repair controls before entering sites and during construction as needed. 3/4/08</p> <p>Stabilize the area upon completion of work. 3/4/08</p>	<p>NA</p> <p>NA</p>
<p>Erosion and sediment controls Carpenter Ln. to Rt. 68</p> <p>Durham Rd. Liney Hall Ln.</p>	<p>Equipment is working onsite causing some ruts and disturbance in previously stable areas. 3/4/08 Haybales within the ditch/outlet remain knocked over due to high flow. However, water was still clear at the time. 2/20-3/4/08 ATV traffic was also noted in this area, damaging controls and leaving ruts. 1/16-3/4/08</p> <p>Steep slope off High Hill Rd. has a small, eroded washout channel. ATV tracks were also noted disturbing the vegetative cover in this area. 12/4-3/4/08</p> <p>Controls remain intact along the access road and bridge south of Durham Rd. Timber mats and fiber rolls remain in place And two bridges are in place across Muddy River trib. The area off Durham Rd was flooded over the access road but flow was still filtered by controls. 3/4/08</p>	<p>Ensure mulch cover is sufficient for winter stabilization. Provide additional attention in the spring to establish vegetative cover. Replace controls before starting work in the area. 3/4/08 Evaluate measures to keep ATVs out of the area. 3/4/08</p> <p>Evaluate measures to keep ATVs out of the area. Regrade and add controls as needed to the slope. Perform final slope stabilization in the growing season. 12/4-3/4/08</p> <p>Controls remain intact along the access road and bridge south of Durham Rd. Timber mats and fiber rolls remain in place And two bridges are in place across Muddy River trib. The area off Durham Rd was flooded over the access road but flow was still filtered by controls. 3/4/08</p>	<p>Continue to expedite restoration here. Controls need to be restored again.</p> <p>Needs evaluation and to be monitored.</p> <p>Needs evaluation and restricted access if feasible.</p>

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Williams Rd to East Center St.	<p>Snowplows have pushed stone material on the timber mats and subsequently into the wetlands off Liney Hall Ln. 2/26-3/4/08</p> <p>Timber mats and silt fence remain in place at the Stony Brook site access. 3/4/08</p> <p>A small detention basin remains here and is being used for a slurry dewatering area. Silt fence and a mulched berm are in place around the basin. 3/4/08</p>	<p>Carefully remove stone from the wetlands and timber mats. If future snow removal is needed avoid wetland areas. 2/26-3/4/08</p> <p>Add controls as needed in this area. Stabilize soils when applicable. 3/4/08</p> <p>Monitor controls for effectiveness. 3/4/08</p>	<p>Needs attention.</p> <p>NA</p> <p>NA at this time.</p>
Tamarack Swamp Rd.	<p>A pad and foundation remain within wetlands with an adjacent area of standing water west side of roadway. Some encroachment has occurred both during installation and wire grounding. Controls were replaced around the sediment on 12/26 and new hay mulch was recently applied. 3/4/08</p> <p>Snowplows have pushed snow and a large amount of stone up to the controls at the wetland boundary during clearing. 1/8-3/4/08</p>	<p>Ensure that sediment from both encroachments is removed, not just encompassed, or determine if existing conditions are covered by the permit 12/26-3/4/08. Contractors are regularly evaluating pads to ensure impacts are within permitted dimensions. See Inland wetland section for more details 3/4/08</p> <p>Avoid pushing snow up to or within wetlands. 12/26-2/26/08. This is a large amount of material and should be pulled back to avoid encroachment. 1/8-3/4/08</p>	<p>See Inland wetland section.</p> <p>No run-off was noted during recent heavy rain but provide proactive evaluation.</p>
Powers Rd. Woodhouse Ave. Harrison Rd.	<p>Turbid run-off was noted from the bypass access road off Powers Rd. Timber mats are compressing into the mud and turbid run-off is flowing into the wetland boundary. 3/4/08</p>	<p>Additional controls are needed to stabilize the area and filter run-off. If sediment has accumulated, it should be removed by hand. 3/4/08.</p>	<p>Needs attention.</p>

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<p>Pond Hill Rd. & Docker Dr. (I 91 – Rte. 5)</p>	<p>The previously seeded stockpile area off Woodhouse Ave. will not become (permanently) stable during winter. Vehicle tracks were noted in the reclaimed areas. 11/27- 3/4/08</p> <p>Controls, including several large fiber rolls remain along the slope and at the sediment trap. Even though the large gully on the slope does not seem to be worsening, it ends at the stream and should be addressed. 9/25-3/4/08</p> <p>Controls off Docker Dr. near the wetlands were recently reinforced. Large areas of exposed soils are gulying from heavy rains and/or been disturbed by ATVs (since 11/6). Crews have been here multiple times but ATV traffic is very active. 3/4/08</p>	<p>Ensure sufficient stabilization for winter months. Avoid access once an area is temporarily or permanently stabilized. 11/27-3/4/08</p> <p>Continue to monitor and adjust controls as needed. The eroded gully should be graded and stabilized to avoid undermining the controls. 10/2-3/4/08 Even though it is not worsening, the gully should still be repaired. 3/4/08</p> <p>Continue to maintain controls adjacent to the brook here. 3/4/08 Crews plan to return as soon as weather conditions allow to apply bark mulch to encourage stabilization. ATV traffic will be difficult to control as they are accessing from abutting land and have always disturbed this area. 2/20-3/4/08</p>	<p>NA at this time. Continue to monitor until the growing season</p> <p>Gully needs evaluation/attention but it has not changed size since controls were added.</p> <p>Needs attention when ground conditions are appropriate.</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 rains. Additional mulch and silt fence were added to exposed soils recently. Eroded gullies/rills were noted on the slope. 3/4/08</p>	<p>Continue to stabilize disturbed areas to the extent feasible and ensure the area is contained by controls as needed to filter run-off. Some CB liners have been replaced. 3/4/08</p>	<p>Continue to evaluate and stabilize.</p> <p>Area needs additional attention for periods of heavy rain.</p>
<p>Cook Hill Jct.</p>	<p>Soils remain stockpiled upgradient from wetlands</p>	<p>Temporarily stabilize soils in this active area as soon</p>	<p>Stockpiles need evaluation.</p>

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Tamarack Swamp Road	<p>access off Durham Rd. is flooded but flow is filtered by controls. 3/4/08</p> <p>Snow removal activities have pushed stone onto timber mats and subsequently into wetlands off Liney Hall. 2/26-3/4/08</p> <p>Pad and adjacent controls remain within wetlands. In two separate occasions, during active work, sediment was pushed over controls into wetlands. Controls were replaced around the sediment each time but the encroachments were not removed. However, the contractor is evaluating pads with GPS to ensure limits are within what was permitted. 2/20-3/4/08</p>	<p>through flooded areas if feasible. 3/4/08</p> <p>Remove stone, carefully by hand, from wetlands and pull stone back from the timber mats. 2/26-3/4/08</p> <p>Area is sensitive and should be monitored closely. Pull soil back before installing new controls, do not just encompass it. 12/4-2/20/08 The contractor stated that pads are within the proposed/permitted size limits. 2/20-3/4/08</p>	<p>Needs attention</p> <p><i>The contractor has stated that pads are within the proposed/permitted size limits.</i></p>
Powers Rd. & Woodhouse Ave.	<p>Access road/ wetland crossings remain in place to the east. Controls are in place adjacent to the work. 3/4/08</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. Some timber mats were removed from the wetland for use at the access road bypass. Turbid run-off noted from the bypass is reaching the wetland. 3/4/08</p>	<p>Continue to monitor controls. Crossings need to be removed/restored when access is complete. 3/4/08</p> <p>Remove the stone from the wetlands to the extent feasible (recommended since 9/25) However, crews continue to return here for line work, potentially disturbing the area again before final stabilization. Add new controls as needed to recently exposed areas. 2/26-3/4/08</p>	<p>NA at this time.</p> <p>1st area needs attention during final restoration however, turbid run-off currently needs attention.</p>
Mansion Rd to Tuttle Ave.	<p>Several wetland crossings are in place. 3/4/08</p>	<p>Monitor and maintain new controls. Crossings will need to be restored</p>	<p>NA at this time.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Old Farms Rd.</p>	<p>Wetland clearing and crossing complete via an existing bridge and culvert. Disturbed areas remain mulched and seeded. 3/4/08</p>	<p>when access needs are complete. 3/4/08</p> <p>Additional controls may be needed to prevent run-off from any soil disturbance. See access road and erosion control sections. 3/4/08</p>	<p>NA at this time.</p>
<p>State species of concern, threatened and endangered species.</p> <p>Liney Hall Rd</p> <p>Woodhouse Ave; Harrison Rd. Mansion Rd. to Tuttle Ave</p>	<p>A no entry sign remains near the potential vernal pool off Stony Brook Rd. as an appropriate alternative to construction fencing. 3/4/08</p> <p>Several frog and salamander egg masses were previously noted within prime amphibian breeding habitat, located off Liney Hall Ln. This is not a state listed species issue but indicates good amphibian breeding habitat. 3/4/08</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. 3/4/08</p>	<p>Continue to monitor area and retain distance from active work. 3/4/08</p> <p>Prevent turbidity and direct impacts to these areas to the extent feasible. 3/4/08</p> <p>Both areas should receive the same attention as known protected habitat area along the ROW. The dormant season began Nov. 1st and sweeps for turtles are not required until active season begins in April. 3/4/08</p>	<p>NA</p> <p>NA</p> <p>NA at this time.</p>
<p>Vegetative clearing or stabilization</p> <p>Most work areas Have been cleared</p>	<p>Vegetation was preserved in areas where invasive species were not dominant. 3/4/08</p> <p>Work is complete, at least temporarily, in many areas along the route. However, crews continue working on lines through the ROW. 3/4/08</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. 3/4/08</p> <p>The D&M states that areas should be temporarily stabilized if work will not return in 21 days. At this time, winter stabilization</p>	<p>NA</p> <p>Final stabilization will be needed upon completion of active line work.</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
<p>Woodhouse Ave and Harrison Rd.</p> <p>Pond Hill Rd. & Docker Dr. (I 91 – Rte. 5) Pent Rd. & Oliver Creek Rd.</p> <p>Old Farms Rd. (115kV Underground trench-work)</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. 3/4/08</p> <p>All of the previously applied seed/hay has washed away at Docker and turbid run-off and erosion was resulting. Additional seed and hay was applied near the wetland but the slope will require more attention during thaw periods. 2/26-3/4/08</p> <p>Soil remains exposed here as active work is occurring but mulch was recently applied in some spots. 3/4/08 Previously hydroseeded areas along the shoulders of Old Farms Rd. also have ruts and disturbance. 12/26-3/4/08</p> <p>Clearing is complete across a stream. Mulch and seed remain in place for temporary stabilization 3/4/08</p>	<p>measures will be needed (including mulch w/binders or erosion control mats as needed). 12/4-3/4/08</p> <p>Continue to monitor and replace shrubs if needed. 3/4/08</p> <p>See erosion control section. Apply additional mulch with binders or erosion control mats as applicable to encourage stabilization at this time of year. 11/20-3/4/08</p> <p>See erosion control section. Encourage stabilization as soon as feasible wherever work is complete in this section. 3/4/08</p> <p>Regrade the disturbed/rutted area and stabilize. 12/26-3/4/08</p> <p>Retain vegetation where feasible; confirm that cutting is limited only to areas defined in D&M plan (20ft in this location). Be extremely mindful of the extent of clearing 3/4/08</p>	<p>NA at this time.</p> <p>Slopes need additional attention during thaw</p> <p>Some controls were installed but needs additional attention</p> <p>Needs to be monitored.</p>
<p>Dewatering</p>	<p>It appears all foundations and dewatering is complete at this time. 3/4/08</p>	<p>Remove and stabilize old dewatering pits as necessary, if dewatering is completed in the area. 3/4/08</p>	<p>NA at this time. Work should shift to restoration.</p>
<p>Blasting</p>	<p>No blasting is proposed. 3/4/08</p>	<p>None</p>	<p>NA</p>

Areas of Inspection	Observation	Recommended Action	Corrected Action
Spills, soils and material storage	Spill control materials are being brought to sites when work is performed. 3/4/08	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. 3/4/08	Needs regular attention.
All Active Sites	Some active sites continue to have small stockpiles associated with drilling and stored equipment during the construction process. 3/4/08	Monitor equipment closely for leaks as they move from site to site to prevent repeated problems. Always contain and control stockpiles as soon as possible. 3/4/08	Continue to monitor throughout construction.
Old Farms Rd.	Soil continues to be stockpiled upgradient of the wetlands but controls remain in place. However the amount of soil has the potential to overwhelm the controls. 12/26-3/4/08 Soil was observed migrating under controls. 3/4/08	Keep storage materials away from wetlands. Remove soil when feasible. Ensure it is not within 100 feet of wetlands. See erosion control section. 12/26-3/4/08	Needs attention
Additional Observations	None 3/4/08	None	

Next likely scheduled inspection:

Tuesday March 11, 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: Crews preparing for line pulling. Large exposed area will need controls upon completion of work. Carpenter Lane should be swept.



Durham Rd: Access road is flooded. If feasible, keep equipment off access road until water subsides.



Liney Hall Ln.: Stone entrance pad should be installed to reduce sediment tracking. The roadway needs to be swept.



Liney Hall Ln: Plows have pushed stone onto timber mats and into the wetlands.



Powers Rd: New timber mats on the bypass road are compressing into the soft soil. Turbid run-off is flowing into the wetland boundary.



Docker Dr: Several eroded gullies/rills noted along the slope within the ROW. Additional controls/stabilization measures are needed to prevent erosion.



Blue Hills Orchard: Line installation underway from Pent Rd through the orchard.



Cook Hill Jct: Soil stockpile and wetland crossing. Sediment from the stockpile is migrating under the controls on the slope upgradient from the wetland.