

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: February 21, 2007

Inspector: Matthew Creighton

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

Rainfall: Total of 0.89” rain between 2/13–2/20 with 0.88” of the total reported on 2/14 (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways High Hill Rd. to Rte 68	Timber mats are in place in a non-federally jurisdictional (NFJ) wetland crossing. Turbid run-off is getting through the controls. 2/21/07	See Erosion Control Section for more details 2/21/07	NA
	Some sediment accumulation and tracking were noted at High Hill Road. 2/21/07	Check construction entrance and clean/sweep High Hill Road, and Route 68. 2/21/07	Needs attention.
Williams Rd. to East Center St.; S. Turnpike + Merritt Parkway Area;	No sediment tracking was noted on any of these roadways and the adjacent areas appear stable. 2/21/07	Continue to monitor entrances and sweep as needed. Also, continue to monitor the slope at S. Turnpike for additional wash-outs or run-off issues. 2/21/07	Not applicable (NA)
Mansion Rd.	Run-off was pooling at the ROW entrance in the form of a large sheet of ice. 2/21/07	Haybales are present here. Continue to monitor and ensure that run-off does not reach the roadway. 2/21/07	Continue to monitor.
Mansion Rd. Apple Orchard	Turbid water was observed flowing along the access roads but was effectively trapped and filtered by well placed sections of silt fence before leaving the site.	Adjust controls as needed along the access road. Monitor and maintain silt fence. 2/21/07	Well placed silt fence was filtering run-off.

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<p>Old Farms Road</p>	<p>2/21/07</p> <p>Plywood is being used to reduce impact to the driveways crossing the ROW from equipment crossing. Two driveways have some minor marks from equipment. 12/27/06-2/21/07</p> <p>Turbid run-off from the low, saturated spot (filled during access road construction) was observed again. It was reaching Old Farms Rd and entering a CB without drop inlet controls and directly observed entering receiving wetlands off-site. 2/21/07</p> <p>Run-off has previously been observed across and along several driveways to Old Farms Rd. 1/23-2/21/07 Thick ice was observed again across the driveway in the ROW as a result of run-off. Depending on whether turbid run-off is associated, this may either be an environmental or safety (ice) issue. 2/21/07</p>	<p>Continue to monitor for sediment on roadway and driveways; continue to use rubber mats or plywood to protect driveways. 12/27/06-2/21/07</p> <p>Monitor run-off and hydrology in the area and add controls as needed. 12/18/06-2/21/07 Evaluate whether pre-existing drainage patterns were altered during construction. It appears run-off diversion is necessary. 2/21/07</p> <p>Consider installing temporary stormwater containment or diversion to prevent sheet flow across driveways and off-site. 1/23-2/21/07</p> <p>Diversion/containment seems necessary especially as turbid run-off is currently associated and is reaching off-site wetlands. 2/21/07</p>	<p>Plywood is used to protect driveways from equipment damage (proactively).</p> <p>Needs evaluation and attention.</p> <p>Needs evaluation</p> <p><i>Contractor replaced drop inlet protection on 2/23/07 (as stated during a phone conversation) A larger solution is still needed.</i></p>
<p>Old Farms Rd. (115kV Underground trench-work)</p>	<p>Most CBs are controlled with liners, however gutter buddies (filter socks) have been removed (likely for town plowing) and drop inlets are open to run-off. 2/21/07</p> <p>Sediment has accumulated along the roadway and is entering the CBs as turbid run-off during this thaw period.</p>	<p>Replace gutter buddies or provide alternative controls for drop inlets around town plowing needs. 2/21/07.</p> <p>Have street sweeper attend to accumulating sediment. Clean gutter more regularly by hand if necessary, rather than</p>	<p>Needs attention</p> <p>A street sweeper is scheduled to clean the roadway every Friday but area needs more immediate and regular</p>

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	<p>It was directly observed flowing into wetlands adjacent to the roadway. 2/21/07</p> <p>The cold weather appears to exacerbate “crumbling” of the patch cover on the trench leaving loose pebbles along the roadway. 2/6-2/21/07</p>	<p>wait for the weekly sweeping. Replace gutter buddies. 2/21/07</p> <p>Have street sweeper attend to accumulating sediment and loose material 2/6-2/21/07</p>	<p>attention.</p> <p>Needs regular attention</p>
<p>Foundation and site construction</p> <p>High Hill Rd.</p> <p>S. Turnpike + Merritt Parkway Area</p> <p>Mansion Rd. Apple Orchard</p> <p>Old Farms Rd. (115kV Underground trench-work)</p>	<p>Temporary/permanent pole installation, drilling and access road construction is occurring in some areas along the project route. 2/21/07</p> <p>Old poles have been removed and new line work appears complete for the time being. 2/21/07</p> <p>No new work was noted off South Turnpike. 2/21/07</p> <p>New access roads and staging areas are in place. 2/21/07</p> <p>Underground trenchwork continues into section 2b. Active underground work within the section 2a limits was not observed during the inspection. 2/21/07</p>	<p>None. 2/21/07</p> <p>See erosion control section. 2/21/07</p> <p>See erosion control section. 2/21/07</p> <p>See access roads section. 2/21/07</p> <p>See access road section. 2/21/07</p>	<p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p> <p>NA</p>
<p>Erosion and sediment controls</p> <p>High Hill Rd. to Rt. 68</p>	<p>Silt fence and haybales are in place at the wetland near High Hill Rd. entrance. Logs protect the controls, however, turbid water is getting through the controls and ponding on the other side. 2/21/07</p> <p>Some mulch and silt fence remain in place to help prevent erosion on the steep slopes of the</p>	<p>Inspect and maintain silt fence/haybales as needed. Monitor area for run-off and adjust controls for containment. 2/21/07</p> <p>Monitor for erosion and run-off issues and adjust controls as needed. 2/21/07</p>	<p>Needs evaluation and potential repair.</p> <p>NA</p>

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Williams Rd to East Center St.	<p>graded staging areas. 2/21/07</p> <p>Silt fence and silt liners at CB near Stony Brook Rd. entrance appear secure. 2/21/07</p>	<p>Maintain as needed. 2/21/07</p>	<p>NA</p>
	<p>Much of the appropriate vegetation and woody debris off Stony Brook Road was preserved to prevent erosion. 2/21/07</p>	<p>Continue to make efforts to retain vegetation for erosion control when clearing resumes. 2/21/07</p>	<p>NA</p>
S. Turnpike + Merritt Parkway Area	<p>The slope did not have any new erosion issues. The silt fence along the base of slope remains intact. 2/21/07</p>	<p>Monitor access road slope for future washout or erosion issues, add controls/diversions if needed 2/21/07</p>	<p>NA</p>
Mansion Rd.	<p>An existing riprap slope and culvert are present near the entrance from the road. Haybales here remain intact but turbid run-off from the ROW is ponding and a thick sheet of ice is present adjacent to the roadway. 2/21/07</p>	<p>Continue to monitor and adjust controls in this area. Run-off has not yet entered the roadway but continue to monitor. The ice may also present a safety issue if it builds up to the roadway. Evaluate whether diversion is needed. 2/21/07</p>	<p>Needs evaluation.</p>
Mansion Rd. Apple Orchard	<p>Small sections of silt fence are in place strategically at run-off points and near wetlands. Several of the sections appear to be filtering run-off before it leaves the site. 2/21/07</p>	<p>Continue to monitor and adjust controls as needed. Repair fallen section of silt fence when feasible. 2/21/07</p>	<p>Silt fence is effectively filtering run-off. Needs regular maintenance</p>
Old Fams Rd.	<p>Silt fence is in place and intact on one side of the access drive and near the stone pads in saturated areas. Turbid run-off is leaving one driveway and flowing onto the roadway and into a CB without drop inlet (gutter buddy) protection. This was then directly observed entering the receiving wetlands. 2/21/07</p>	<p>Monitor potential run-off areas and add controls or diversions as needed. 12/18/06-2/21/07</p> <p>It appears a diversion is needed especially as turbid run-off is noted. 2/21/07</p>	<p>Needs to be monitored</p> <p>Needs evaluation and attention.</p> <p><i>Contractor replaced drop inlet protection on 2/23/07 (as stated via phone). A larger solution was still needed.</i></p>

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<p>Old Farms Rd. (Equipment Storage Area)</p> <p>Old Farms Rd. (115kV Underground work)</p>	<p>The equipment storage yard off Old Farms Rd. looks good. Extended silt fence is intact along the access driveway and upgradient of the wetlands located here. 2/21/07</p> <p>A small pile of sediment, left from dewatering, is mixing with snowmelt and turbid run-off is flowing a CB with no drop inlet control (gutter buddy). The run-off was observed entering a nearby receiving wetland. 2/21/07</p>	<p>Maintain existing controls and add controls as needed. 2/21/07</p> <p>Maintain CB protection until all sediment is removed from the site and disturbed areas have been stabilized. If gutter buddies are removed for plowing, clear ice/snow from the drop inlet and replace controls as soon as possible. 2/21/07</p>	<p>NA</p> <p>Needs attention.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>Jurisdictional wetlands can be accessed now that ACOE permit is in hand. 2/21/07</p> <p>Small NFJ wetlands or low spots are being accessed for crossing. 2/21/07</p> <p>Turbid run-off resulting from the underground work along Old Farms Rd. was observed flowing to CBs and directly to receiving wetlands. 2/21/07</p> <p>Turbidity to wetlands was also observed due to run-off from the ROW in this area. 2/21/07</p>	<p>Approved work in wetlands will follow the permit guidelines. 2/21/07</p> <p>Mats are in place where appropriate. 2/21/07 Ensure that drainage patterns are monitored.</p> <p>See access road and erosion control sections. Work out a schedule around the town to replace gutter buddies quickly after plowing 2/21/07</p> <p>See access road and erosion control sections. Work on drainage issues. 2/21/07</p>	<p>NA</p> <p>NA</p> <p>Needs evaluation and attention.</p> <p><i>Contractor replaced drop inlet protection on 2/23/07 (as stated via phone). A larger solution was still needed.</i></p>
<p>State species of concern, threatened and endangered species.</p>	<p>According to the D&M plan, state-listed species are not located in the current work areas. 2/21/07</p>	<p>None 2/21/07</p>	<p>NA</p>
<p>Vegetative clearing or stabilization</p>	<p>Permits are obtained and vegetation clearing will resume shortly; several more weeks of work will</p>	<p>Continue to retain appropriate vegetation for stabilization. Continue to monitor areas and mulch/</p>	<p>NA</p>

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	<p>be required to complete clearing. 2/21/07</p> <p>Vegetation was preserved in areas where invasive species were not dominant. 2/21/07</p>	<p>temporarily stabilize as needed. 2/21/07</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 2/21/07</p>	<p>NA</p>
<p>Dewatering</p>	<p>Dewatering was not being performed during the inspection of the underground work off Old Farms Rd. Small stone check dams, and a flocculent log were removed from the roadway. Sediment accumulation was noted along the gutter and flowing into the wetlands, via the CBs. 2/21/07</p>	<p>Continue to monitor any remaining dewatering activities and adjust controls as needed. Clean sediment from the roadway, gutters and controls on a regular basis and by hand as necessary. 2/21/07</p>	<p>Some controls were removed due to inactive dewatering, but turbid run-off was flowing off-site.</p>
<p>Blasting</p>	<p>No blasting is proposed. 2/21/07</p>	<p>None</p>	<p>NA</p>
<p>Spills, soils and material storage</p> <p>High Hill Rd. to Rt 68</p> <p>Old Farms Rd. (Equipment Storage Area)</p>	<p>Spill control materials are being brought to sites when work is performed. 2/21/07</p> <p>Some wetland crossing timber mats are being stored off High Hill Rd. and used in access road construction. 12/11/06-2/21/07</p> <p>Some trucks and equipment used for the underground work are being stored off Old Farms Rd. Silt fence is in place to protect wetlands. 2/21/07</p> <p>Portable sanitary facilities are located away from wetlands. 2/21/07</p>	<p>Always use spill control materials when working on equipment and during refueling. Replace as needed. 2/21/07</p> <p>Continue to store equipment away from wetlands when possible. 12/11/06-2/21/07</p> <p>Monitor controls and adjust as needed. Vehicles should be stored away from wetlands. 2/21/07</p> <p>Sanitary facilities and hazardous materials should be stored away from wetlands and CB's. 2/21/07</p>	<p>NA</p> <p>NA</p> <p>NA at this time.</p> <p>NA</p>

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Additional Observations	Some non-project related debris dumping was noted at a few access points, including off Stony Brook Rd. and a pile of asphalt off Old Farms Rd. 11/27/06-2/21/07	None. Noted for the record. 2/21/07	NA

Next likely scheduled inspection: Tuesday February 27, 2007

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

Field Inspector: Matthew Creighton, BSC Group

Reviewer: Diana Walden, BSC Group



Some turbid run-off was observed flowing under or through controls in the ROW off High Hill Road.



View of the staging areas. Poles/line installation complete in this location.



Some sediment tracking and accumulation was noted along High Hill Rd. Sweep roadway and remove sediment.



Silt fence remains intact along South Turnpike. Continue to monitor the slope for erosion, issues with run-off were not observed at this time.



Small sections of silt fence were appropriately placed along the access road at points of run-off. This section within the apple orchard off Mansion Rd. was observed filtering run-off effectively.



View of sediment accumulation along the gutter near a catch basin along Old Farms Rd. Gutter buddies were not in place, likely due to town plowing. Sweep by hand if the street sweeper cannot reach this



Turbid run-off was flowing into the CBs along Old Farms Rd. and was observed entering the adjacent wetlands. Liners were in place but gutter buddies had been removed and needs to be restored.



With the thaw, turbid run-off was again flowing from the low saturated area, filled by the access road installation. Run-off was reaching Old Farms Rd and entering a CB that did not have a gutter buddy in place.