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: November 19, 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: 0.67" of precipitation was recorded in the week prior to the inspection with 0.41" of the total

falling on $11/\overline{15}$ (NOAA data at Meriden, CT).

Areas of Inspection	Observation	Recommended Action	Corrected Action
Access roads and adjacent roadways Most work areas (including Oxbow Junction, Black Pond, Black Walnut Dr., Contractor Receiving Yard, Valley View Dr., Rte. 157, High Hill Rd., East Main Street and Fleming Rd.)	Access roads and stone tracking pads are in place at the ROW entrance in these locations. Associated roadways are free of project related sediment at this time. 11/19/07	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 11/19/07	Roadways free of sediment but needs regular attention.
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 with minimal flow noted in the streams. Several timber mat stream crossings remain at the old access road east of Scovill SS. 11/19/07	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. 11/19/07	Not Applicable (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 have been installed at all wetlands and no issues have been noted. 11/19/07	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. 11/19/07	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
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/compressing into the wetland in some locations. 9/4-11/19/07 Sediment is migrating/accumulating over the stone road and pad. 10/9-11/19/07	Sweep Durham Rd. as needed. Provide timber mats to reduce impact if further access is necessary. Contractors are working to determine the status of this road. See wetland section for more details. 11/19/07	Needs evaluation
Durham Rd. to Elihu Dr.	Timber mats were used to prevent ruts in some areas along access roads and pad sites within the golf course. 11/19/07	Add controls as needed during construction. Monitor mats for sediment accumulation. 11/19/07	NA at this time.
East of Beseck SS	A stone pad remains in place at the original ROW access off Carpenter Ln. in order to prevent sediment tracking, 11/19/07	Carpenter Lane should be swept on a regular basis. 11/19/07	Needs regular attention
	Silt fence was installed to control the riprap sediment trap (11/19) however; the wetlands east of Beseck SS are still receiving sediment laden stormwater from the access road during periods of heavy rain (noted on 9/11, and 11/6-11/19/07)	Evaluate and adjust or reinforce controls to slow and filter stormwater. 11/19/07	Silt fence was added upgradient but the area still needs attention
Black Pond Junction to Beseck SS ROW, North of Beseck SS	Water bars and haybales along the access road are deteriorating but grass growth and vegetation is helping to reduce erosion and filter stormwater. However, turbid water was noted entering the wetlands. 11/19/07	Continue to monitor and adjust controls as needed. This area is associated with the wetlands east of Beseck. 11/19/07	Area needs attention.
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Access road crosses several streams and wetlands in this section. 11/19/07	Monitor area for run-off and add controls as needed. 11/19/07	Needs regular attention.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Timber mats and sediment remain in place over the riprap stream bypass following active work here. 11/19/07	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. 10/9-11/19/07	Needs to be monitored/ evaluated.
Foundation and site construction Scovill SS west to Chestnut Junction	No active work was noted following installation of foundations and poles. 11/19/07	Monitor and add controls as needed. See erosion control section. 11/19/07	NA
Oxbow Junction to Beseck SS	Foundation drilling, pouring, and pole installation was underway within the golf course off Durham Rd. 11/19/07	Add controls as needed as work progresses. 11/19/07	NA
Black Pond Junction to Beseck SS ROW, North of Beseck SS to Black Pond Jct.	Poles installation is almost complete from Black Pond Jct. to E. Meriden SS. 11/19/07	Carefully monitor work around wetlands. See erosion control section. 11/19/07	NA
	Line work underway north of Beseck SS to E. Meriden SS. 11/19/07	Monitor controls when working near/in resource areas. 11/19/07	NA
Erosion and sediment controls Scovill SS west to Chestnut Junction Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Water bars have been installed along the access road upgradient from sensitive areas. 11/19/07	Continue to maintain and monitor water bars for effectiveness. Ensure water is directed to stable areas. 11/19/07	NA
	Grass growth noted at recently seeded areas. Timber mats, silt fence, and filter socks remain along the access road and at wetland crossings. 11/19/07	Continue to add controls along access road upgradient from wetlands to filter run-off and prevent turbidity. The area has high flow during heavy rains. 11/19/07	Continue to evaluate
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus Street	Controls (Haybales, filter socks) were filtering water as it leaves the site, including at the turn onto the ROW and along the pond. 11/19/07	Monitor controls and adjust as needed. Add controls as needed upgradient from wetlands. 11/19/07	NA
Black Walnut Dr.	An eroded washout was noted (since 10/15) on the steep slope of the last pad site upgradient from Ball Brook despite past	Consider an erosion control blanket if necessary to stabilize the slope. 10/15-11/19/07 Monitor controls for	Silt fence was added but the washout itself should be addressed.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	controls. Silt fence was added down slope to prevent sediment from reaching wetlands but the source is not controlled. 11/19/07	effectiveness but address the erosion at the source and stabilize for the winter. 11/19/07	
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.4/23-11/19/07	Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-11/19/07	Needs repair when feasible. Existing vegetation helps contain/filter the area.
South of Contractor Yard Along Rte. 17 and Little Lane	Silt fence typically filters turbid run-off here before it leaves site. Timber mats are in place at the crossing and areas remain seeded. 11/19/07	Monitor and reinforce controls to ensure they adequately filter run-off. Monitor for stabilization. 11/19/07	NA
Durham Rd.	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. 11/12/07	Some controls have been added, but additional controls may be needed here. 11/19/07	Needs to be monitored
	New drilling underway within the golf course. Timber mats have been used to reduce ruts. Fiber rolls and silt fence have been installed adjacent to wetlands. 11/19/07	Add controls as needed during construction and monitor wetlands for turbidity. 11/19/07	Fiber rolls and silt fence have been installed.
Rt 157 (east & west) & Elihu drive	Controls were in place along pad sites. 11/19/07.	Continue to monitor until final stabilization is achieved. 11/19/07	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. 8/20-11/19/07	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, area should be monitored during large storms. 11/19/07	Some controls are working well but sediment accumulation needs proactive attention/evaluation when feasible.

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	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. Wetlands adjacent to the pond do contain some sediment but vegetation has established over the sediment, stabilizing the area. 11/19/07	Controls should be maintained along the access road as needed especially around wetlands. Minimize impacts to the vegetative cover to the extent feasible during line work. Remove and stabilize the access road upon completion of work to provide final restoration for the site. 11/19/07	Controls need maintenance along the access road.
East of Beseck SS	Turbid run-off from the pad and access road was noted under and beyond the fiber roll controls and within the wetland here. 11/12-11/19/07 Silt fence was added near the riprap trap but was not able to keep turbid water out of the wetland. 11/19/07	Either repair/reinforce controls north along the access road or determine how to make the controls at the wetland effective. Consider adding stone to the portion of access road adjacent to wetlands. 11/12-11/19/07	Silt fence was added but the area still Needs attention.
West of Beseck SS	The area west of Beseck SS remains mulched and seeded. 11/19/07	Continue to monitor until final stabilization is achieved. Adjust controls as necessary. 11/19/07	NA at this time.
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation	Some grass growth was noted on reclaimed pad sites north of Beseck. 11/19/07	Continue to monitor for final stabilization and cover. 11/19/07	Some grass growth was noted.
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 11/19/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 11/19/07	NA
Vicinity of East Meriden Substation)	The pad at structure #24462 contains a steep slope with previously exposed soils (since 9/24). Soils have now been mulched for stabilization. 11/19/07	Monitor slopes for run-off and erosion and ensure cover is sufficient for the winter. Consider erosion control blankets if run-off is an issue. 11/19/07	Mulch was added to the exposed soils on the slope
	The foundation is in place above the riprap	Monitor this area closely as the site is still	Restoration needed within timelines.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	stream channel bypass. The area appears contained. Controls are in place around the pad. 11/19/07	disturbed and adjacent to a stream. (since 10/15) Stabilize within the D&M timelines if work is not returning, 11/19/07	
	Several areas in the vicinity have been mulched and seeded and cordoned off from vehicle access. 11/19/07	Ensure that cover is sufficient for winter months. 11/19/07	Reclamation efforts were noted in some areas.
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. 11/19/07	Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). 10/22-11/19/07 Temp. stabilization will require more than sediment controls in place. Attend to the stream as soon as possible. 11/19/07	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 the pad site north of High Hill Road. 10/29-11/19/07	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 at 21 days. 11/19/07	Needs attention.
	Controls are needed at large disturbed areas adjacent to wetlands to the south of East Main St. 11/5-11/19/07	Add controls around the disturbed area and provide temporary stabilization in the approved timelines. 11/12-11/19/07	Needs attention.
	Portions of the ROW north of High Hill Rd. remain restored with seed and mulch and controls are in place north of East Main St. 11/19/07	Continue to monitor for stabilization and provide similar restoration to any areas that won't be actively worked. 11/19/07	NA in seeded areas.
Black Pond	Controls remain in place at Black Pond Jct. and provide sufficient	Monitor controls carefully and adjust as necessary due to adjacent wetlands	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
	coverage at the wetland/ pad edge. 11/19/07	Stabilize the area in the approved timelines. 11/19/07	
Inland Wetland and Watercourse encroachment and mitigation	ACOE permit is in hand.	Perform work in wetlands under the permitted guidelines. 11/19/07	NA
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.)	A number of wetland crossings (via timber mats) remain. Adjacent controls were in place. 11/19/07	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 11/19/07	NA
Scovill SS west to Chestnut Junction	Timber mats and culverts are in place at wetland crossings in this section 11/19/07	All crossings are temporary and will require restoration upon project completion 11/19/07	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- 11/19/07	If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-11/19/07	Needs evaluation.
	Drilling at the edge of wetlands is underway within the golf course. Sediment is piled on the timber mats. Controls are installed and appear to contain sediment. 11/19/07	Monitor this area closely and continue to add controls as needed. Continue to attend to sediment appropriately 11/19/07	Controls were added at wetlands.
Powder Hill Rd.	Several smaller streams remain culverted. Some accumulated sediment from past heavy rains has been noted in wetland areas however, vegetation was noted growing on top of the sediment. 11/19/07	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. 11/19/07	Needs evaluation/ attention when access is complete.
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	Remove any stone/soil accumulation in the wetlands during final restoration of the site. This should happen	Additional attention is needed.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	wetlands. (noted since 10/22) Although silt Turbid water was noted in wetlands from access road run-off. 11/12- 11/19/07	before vegetation establishes further, reducing the possibility that material will be removed. 10/22-11/19 Adjust controls to prevent run-off from reaching wetlands. 11/19/07	
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 yet stable. 11/12-11/19/07	Monitor controls closely. Perform final restoration in all areas when feasible. Provide temporary stabilization sufficient for winter months on any areas of exposed soil. 11/19/07	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. due to the recent work. 11/5-11/19/07	Monitor controls and stabilize soils as soon as possible. See erosion controls section. Stabilize in accordance with D&M timelines. 11/5-11/19/07	Needs attention
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. The final pad and structure on this line is installed upgradient from the habitat. 11/19/07	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. 11/19/07	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,	Continue to be very mindful of controlling sediment and reducing access near wetlands used for amphibian breeding Also monitor controls for effectiveness and be	Continue to monitor

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	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. 11/19/07	mindful that the controls can block foraging/ migrating wildlife 11/19/07	
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 growth and revegetation noted in many areas. 11/19/07	Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover. 11/19/07	In all areas, be aware of limits of clearing and stick to the specifications of the D&M plan Grass growth and natural revegetation noted in many areas.
Remaining work areas	Work is complete, at least temporarily, in many areas along the route. However, crews have to return for future activities in some locations. 11/19/07	The D&M states that 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 or erosion control mats as needed). 11/19/07	Needs attention within timelines provided.
Black Pond Junction to Beseck SS.	Some of the existing pad sites from the first line installation remain restored/ seeded and mulched with some grass growth. 11/19/07	Continue to restore and stabilize old pad sites and work areas that will no longer be needed or active, prior to crews leaving an area. If work activities will not return in 21 days, temporary stabilization is needed. 11/19/07	Needs regular attention.
North of High Hill Rd. South of East Main St.	Some large areas of exposed soil remain adjacent to wetlands in nearby sections due to recent foundation work. 11/19/07	Maintain controls and monitor for vegetative growth. Attend to the remaining areas within the approved timelines. 11/12-11/19/07	Needs attention within timelines.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Dewatering Oxbow Junction to Beseck SS Black Walnut Dr.	Several settling basins remain off Black Walnut Dr. 11/19/07	Continue to use settling basins as needed. Restore areas when work is complete. 11/19/07	NA
Durham Rd.	Dewatering will continue at new foundations within the golf course as needed. Sediment was piled on adjacent timber mats. 11/19/07	Continue to monitor and contain slurry during foundation work. Restore areas when work is complete. 11/19/07	NA at this time.
Black Pond Junction to Beseck SS North of Beseck SS to East Meriden Substation, Fleming Rd.	Dewatering basins remain in place at the pad sites. 11/19/07	Re-use existing basins whenever possible for final line construction to reduce disturbance. Restore areas whenever feasible. 11/19/07	NA at this time. Begin working on restoration
Blasting	No blasting is proposed. 11/19/07	None 11/19/07	NA
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 11/19/07	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 11/19/07	NA
	Concrete washout containment was noted in the form of lined, dug basins in several locations. 11/19/07	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 11/19/07	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. 11/19/07	Continue to locate hazardous materials and equipment away from wetland inlets such as culverts and CBs. 11/19/07	NA
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 11/19/07	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 11/19/07	NA at this time

Areas of Inspection	Observation	Recommended Action	Corrected Action
Additional Observations	None. 11/19/07	None. 11/19/07	NA

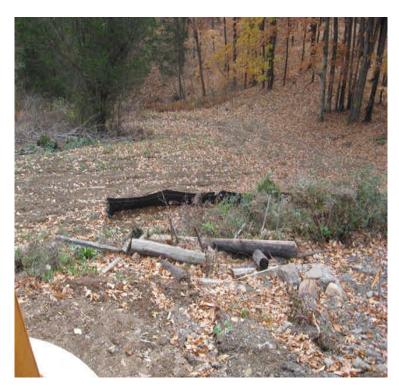
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and certify that based on obtaining the information and belief, and I under	ined and am familiar with the inform on reasonable investigation, includition, the submitted information is to stand that any false statements mad accordance with Section 22a-6 un	ng my inquiry of the ue, accurate and co le in this document	ose individua mplete to the or its attachi	ls responsible for best of my knowledge nents may be punishable
Field Inspector:	Matt Creighton, BSC Group			
Reviewer:	Diana Walden, BSC Group			



Oxbow Jct: Partially completed structures waiting for final line transfer.



Haddam Quarter Rd: Timber mat crossing. Vegetated cover has established and stabilized the adjacent wetlands.



Black Walnut Dr: Silt fence installed upgradient from Ball Brook at the base of the washouts. Monitor silt fence but ultimately address the problem at the source. Repair the gullies and re-stabilize the slope, especially as work activities are not returning.



Durham Rd Golf Course: Sediment pile noted on timber mats from foundation drilling. Controls are in place and should be monitored.



N.E. Beseck SS: Turbid water flowing into wetlands from the access road. Reinforce controls as needed.



East Meriden SS: The steeply sloped edge of a pad site in this area has been mulched.



East Meriden SS: Several exposed areas have been mulched and seeded and cordoned off from vehicle access.



North of East Main St: Exposed area located upgradient from the wetlands has been mulched and seeded. Monitor to ensure that the amount of mulch cover is appropriate for stabilization throughout the winter.