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: October 29, 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: 1.01" of precipitation was recorded in the week prior to the inspection with 0.69" of the total

reported on 10/27 (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 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. 10/29/07	Continue to sweep roadways and refresh stone as needed. Clean existing controls in CBs as necessary. 10/29/07	Not Applicable (NA)
Scovill SS west to Chestnut Junction Scovill SS to Rte. 9 Rte. 9 to East Mount Rd.	Access road and pads are in place in these sections. Culverts are in place at some of the wetland crossings with minimal flow noted in the streams. Timber mats are in place at stream/wetland crossings here. Several timber mat stream crossings remain at the old access road east of Scovill SS. 10/29/07	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. 10/29/07	Not Applicable (NA)
	Sediment from access road run-off noted at one culverted crossing off Shunpike. 10/29/07	Add controls along the access road as needed above wetlands.	Needs attention.
Oxbow Junction to Beseck SS	Access roads and pads are in place along the	Continue to add controls where needed, i.e. mulch,	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
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.;	majority of this section of ROW. Timber mats are in place at wetland crossings. Controls are in place at all wetlands and no issues have been noted. 10/29/07	check dams, silt fence, to control sediment and prevent erosion. Sweep roadways as needed. See erosion control section. 10/29/07	
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. 9/4-10/29/07 Sediment is migrating/accumulating over the stone road and pad. 10/9-10/29/07	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. 10/29/07	Needs evaluation
Durham Rd. to Elihu Dr.	Access roads and pad site installation on hold until winter: 10/29/07	Add controls as needed during access road installation. 10/29/07	NA
East of Beseck SS	The riprap sediment trap east of Beseck SS is receiving sediment laden stormwater from the access road during periods of heavy rain (noted again on 9/11). 10/29/07	Continue to monitor. Evaluate and adjust controls as necessary to slow and filter stormwater flow. 10/29/07	Needs regular attention
	The original ROW access off Carpenter Ln. is in use. The constructed access between Beseck remains blocked off and has been seeded. Sediment tracking from equipment was observed on Carpenter Ln. 10/9-10/29/07	Stone should be added to the new access to prevent sediment tracking and Carpenter Lane should be swept on a regular basis. 1A contractors should coordinate responsibility with remaining Beseck contractors. 10/9- 10/29/07	Needs attention
Black Pond Junction to Beseck SS ROW, North of Beseck SS	Water bars and haybales are deteriorating and should be replaced/re- installed along the access road to divert turbid run- off. Run-off noted causing erosion in sections of	Continue to monitor and adjust controls as needed. Regrade access road as needed. 8/6-10/29/07	Maintenance is needed.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	access road. 9/10- 10/29/07		
	Some of the original pad sites north of Beseck SS were reclaimed, graded, seeded, and cordoned off from future vehicle access. 10/29/07	Monitor area for run-off and final stabilization and add controls as needed. Continue to restore sites. 10/22/07	Reclamation efforts were noted.
South of High Hill Rd. crossing (vicinity of East Meriden SS)	Access road crosses several streams and wetlands in this section. 10/29/07	Monitor area for run-off and add controls as needed. 10/29/07	Needs regular attention.
	Timber mats and sediment remain in place over the riprap stream bypass following active work here. 10/29/07	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. 10/9-10/29/07	Needs to be monitored/ evaluated.
Black Pond and East Main St.	Sediment tracking was noted on the roadways adjacent to work here. 10/29/07	Sweep roadways where necessary and ensure inlets are protected. 10/29/07	Needs regular attention
Foundation and site construction Scovill SS west to Chestnut Junction	No active work was noted in this area this week following installation of foundations and poles. 10/29/07	Monitor and add controls as needed. See erosion control section. 10/29/07	NA
Oxbow Junction to Beseck SS	Line work was underway at Oxbow Jct. 10/29/07	Monitor and add controls as needed. 10/29/07	NA
Black Pond Junction to Beseck SS ROW, North of Beseck SS to Black Pond Jct.	Reclamation efforts were noted at pad sites north of Beseck. 10/29/07	Continue to restore areas no longer necessary for construction and monitor for final stabilization. 10/29/07	Reclamation efforts were noted.
	Foundation installation was underway at Black Pond Jct. Foundations installations are complete north of E. Main St. to High Hill Rd. 10/29/07	Carefully monitor work around wetlands. See erosion control section. 10/29/07	NA
Erosion and sediment controls Scovill SS west to Chestnut Junction	Upgraded access road in place with culverts at streams. Grass growth noted at recently seeded	Continue to add controls along access road upgradient from wetlands to filter run-off and	Continue to evaluate

Areas of Inspection	Observation	Recommended Action	Corrected Action
Rte. 9 to East Mount Rd.	areas. Timber mats, silt fence, and filter socks remain along the access road and at wetland crossings. 10/29/07	prevent turbidity. The area has high flow during heavy rains. Watch for sediment accumulation on the mats 10/29/07	
Shunpike Rd.	Turbid flow was noted at a culvert here as a result of run-off from the access road. 10/29/07	Install fiber rolls or controls where needed to prevent turbid run-off from reaching the culvert. 10/29/07	Needs attention
Oxbow Junction to Beseck SS Oxbow Jct. To Arbutus Street	Controls (Haybales, filter socks) were filtering any water as it leaves the site, including at the turn onto the ROW and along the pond. 10/29/07	Monitor controls and adjust as needed. Add controls as needed upgradient from wetlands. 10/29/07	NA
Black Walnut Dr.	An eroded washout was noted on the steep slope of the last pad site upgradient from Ball Brook despite past controls. 10/15-10/29/07	Adjust controls to protect the resource area downgradient. Consider an erosion control blanket if necessary to stabilize the slope and establish vegetative cover as soon as possible. 10/15-10/29/07	Needs attention
	Small section of silt fence along the ROW has deteriorated. 10/29/07	Monitor the area and replace/maintain controls as needed. 10/29/07	Needs attention when feasible.
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.4/23-10/29/07	Continue to add, maintain, and monitor controls as necessary. Repair deteriorating controls. 4/23-10/29/07	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. 10/29/07	Monitor and reinforce controls to ensure they adequately filter run-off. Monitor for stabilization. 10/29/07	NA
	Large soil stockpiles have been removed along the slope moving west off Little Ln. Disturbed areas have been seeded. 10/29/07	Monitor seeded areas for stabilization. Add controls as needed. 10/29/07	Stockpiles have been removed.

Areas of Inspection	Observation	Recommended Action	Corrected Action
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. 10/29/07	Some controls are in place, but additional controls may be needed here. 10/29/07	Needs to be monitored
Rt 157 (east & west) & Elihu drive	Controls were in place along pad sites. 10/29/07.	Continue to monitor until final stabilization is achieved. 10/29/07	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. 8/20-10/29/07	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. 10/29/07	Some controls are working well but sediment accumulation needs proactive attention/evaluation when feasible.
	With the exception of access roads, vegetative cover has re-established completely along the slopes of Beseck Mtn. Controls along the access roads have deteriorated however; 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. 10/29/07	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. 10/29/07	Controls need maintenance along the access road.
East of Beseck SS	A pad remains in place up-gradient from the wetlands and drilling is complete (as of 10/22). Erosion controls provide sufficient coverage in the area following the breach. 10/29/07	Monitor new controls and adjust as needed. Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). 10/29/07	Restoration needed within timelines.
	The temporary lay-down area adjacent to wetlands and BSS remains graded	Monitor controls and exposed areas for vegetative cover and until	NA at this time.

Areas of Inspection	Observation	Recommended Action	Corrected Action
	and seeded. 10/29/07	stable. 10/29/07	
West of Beseck SS	The area west of Beseck SS remains mulched and seeded. The stockpile has been moved to the edge of the road to allow vegetation to establish on the slope. Haybales were removed from across the site entrance. 10/9- 10/29/07	Replace haybales at the entrance, especially with the remaining active stockpile Continue to monitor until final stabilization is achieved. Adjust controls as necessary. 10/9-10/29/07	Needs some minor follow-up.
Black Pond Junction to Beseck SS ROW, North of Beseck SS to East Meriden Substation	Vegetative growth continues on the slopes upgradient from wetlands near structure #24450 10/29/07	Continue to monitor the exposed areas until it is stabilized. 10/29/07	Vegetative cover continues to establish.
	Some reclamation was noted on pad sites north of Beseck as areas were graded and seeded. 10/29/07	Continue to monitor for final stabilization and cover. 10/29/07	Reclamation efforts were noted.
Fleming Road	A line of haybales surrounded by two lines of silt fence is in place. Adjacent slopes remain mulched for stabilization. 10/29/07	Monitor, adjust, and extend controls as needed. Continue to remove sediment from controls as needed. 10/29/07	NA
South of High Hill Rd. (vicinity of East Meriden Substation)	A new pad site installed west of the substation contains a steep slope with exposed soils. 9/24-10/29/07	Stabilize the slope with seed/mulch and add controls as necessary to slow/filter stormwater flow. 9/24-10/29/07 Consider erosion control blankets if run-off is an issue. 10/15-10/29/07	Needs attention.
	The foundation is in place above the riprap stream channel bypass. The area appears contained. Controls are in place around the pad. 10/29/07	Monitor this area closely as the site is still disturbed and adjacent to a stream. Consider filling the bypass channel if no longer needed to remove a potential sediment source to the stream. Stabilize the area as soon as work is complete. 10/15-10/29/07	Needs to be monitored.
	Grass growth continues	Continue to monitor for	Grass growth continues

Areas of Inspection	Observation	Recommended Action	Corrected Action
	along the original stream channel, which was recently restored and seeded. 10/29/07	stabilization. 10/29/07	
South of High Hill Rd.	Foundation installation complete (as of 10/29). A large, disturbed area was noted upgradient from wetlands. Controls were not in place. 10/29/07	Add controls around the pad. Watch timelines for restoration. Areas should be temporarily stabilized when work will not return in 21 days (per D&M). 10/29/07	Needs attention.
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 needed adjacent to wetlands at the pad site north of High Hill Road. 10/29/07	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). 10/29/07	Needs attention.
Black Pond	Foundation installation underway at Black Pond Jct. Controls remain in place and provide sufficient coverage. 10/29/07	Monitor controls carefully and adjust as necessary due to adjacent wetlands. 10/29/07	NA
Inland Wetland and Watercourse encroachment and mitigation	ACOE permit is in hand. 1/22/07	Perform work in wetlands under the permitted guidelines. 10/29/07	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) were noted. Adjacent controls were in place. 10/29/07	Monitor closely for sedimentation and add controls as needed. All crossings are temporary and will require restoration upon project completion. 10/29/07	NA
Scovill SS west to Chestnut Junction	Turbid flow (resulting from access road runoff.) was noted at a culvert at a wetland crossing off Shunpike Rd. 10/29/07	All crossings are temporary and will require restoration upon project completion Provide controls in this situation. 10/29/07	Needs attention
Oxbow Junction to	Perimeter controls are	Continue to monitor and	Controls need

Areas of Inspection	Observation	Recommended Action	Corrected Action
Beseck SS Contractor Storage Yard	deteriorating in spots and should be repaired. 5/14- 10/29/07	adjust/repair controls as needed around the site. 10/29/07	attention.
Durham Rd.	Sediment migration/ accumulation was noted over the stone road and pad. More controls may be needed here. 10/9- 10/29/07	If further access is needed in this area, mats should be installed. BSC will discuss the area further with the contractors. 10/9-10/29/07	Needs evaluation.
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. 10/29/07	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. 10/29/07	Needs evaluation/ attention when access is complete.
East of Beseck SS	A pad is in place just upgradient from wetlands here. Sediment from the pad site at structure #4534 had migrated into the wetlands but controls had been repaired. However, sediment and stone/soil from the old pad remain in the wetlands. 10/22-10/29/07	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. 10/22-10/29/07	Controls repaired but additional attention is needed in the wetland.
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. 10/29/07	Monitor controls closely as work was performed adjacent to the stream. Continue to monitor the area until vegetative cover has fully established. Perform final restoration in all areas when feasible. 10/29/07	Needs to be monitored.
	Timber mats remain within the wetland south and north of High Hill	Monitor controls and stabilize soils as soon as possible. See erosion	NA

Areas of Inspection	Observation	Recommended Action	Corrected Action
	Rd. Areas of exposed soil are present adjacent to wetlands due to the recent work. 10/29/07	controls section. Stabilize in accordance with D&M timelines. 10/29/07	
	Foundation installation is occurring adjacent to wetlands at Black Pond Jct. 10/29/07	Continue to monitor carefully and reduce impacts to the extent feasible. Dewatering was being controlled during installation. 10/29/07	Continue to monitor
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. 10/29/07	November 1st is the start of the wood turtles dormant season; Ball Brook is not scheduled to be accessed, however continue performing sweeps at this last pad until the dormant season begins as turtles do forage/migrate away from streams. 10/29/07	Contractors stated that field crews have received the appropriate training and sweeps will continue to occur during active work in the active season.
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, 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. 10/29/07	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 10/29/07	Continue to monitor
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;	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 noted in many areas. 10/29/07	Retain species approved by the D&M plan wherever feasible. Continue to stabilize areas and monitor for vegetative cover: 10/29/07	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.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Rte. 9 to East Mount Rd.	Clearing and grading appears complete in this section. Mulch remains in place on steep slopes. 10/29/07	Add controls as needed along slopes and stabilize areas as soon as possible. 10/29/07	NA at this time
Black Pond Junction to Beseck SS.	Some of the existing pad sites from the first line installation have been restored/ seeded and mulched. 10/29/07	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. 10/29/07	Needs regular attention.
	Some large areas of exposed soil remain adjacent to wetlands due to recent foundation work. 10/29/07	Work to temporarily stabilize areas within the D&M timelines even when construction is scheduled to return. Evaluate timing of activities with what is required for stabilization. 10/29/07	Needs attention.
Dewatering Black Walnut Dr.	Several settling basins remain off Black Walnut Dr. 10/29/07	Continue to use settling basins as needed. Monitor capacity of the basin when in use. Restore areas when work is complete. 10/29/07	NA
East of Beseck SS.	Settling tank was used during drilling to contain slurry. 10/29/07	Add controls as needed. Continue removing sediment from the site. 10/29/07	NA.
Black Pond	Dewatering was occurring at a foundation installation. A pump truck was being used with settling tanks to contain slurry. 10/29/07	Monitor and add additional controls as needed. 10/29/07	Slurry was being controlled appropriately.
North of Beseck SS to East Meriden Substation, Fleming Rd.	Dewatering basins remain in place at the pad sites. Trucks/tanks were in use at the site north of East Main St for dewatering. Trucks may be needed at other locations. 10/29/07	Continue to monitor adjust controls as necessary. Re-use existing basins whenever possible for final line construction to reduce disturbance. Restore areas whenever feasible. 10/29/07	NA at this time.

Areas of Inspection	Observation	Recommended Action	Corrected Action
Blasting	No blasting is proposed. 10/29/07	None 10/29/07	NA
Spills, soils and material storage All active areas	Spill controls move from site to site with the equipment. 10/29/07	Always use spill control materials when working on equipment and during refueling. Park equipment 100 feet from wetlands when feasible 10/29/07	NA
	Concrete washout containment was noted in the form of lined, dug basins in several locations. 10/29/07	Provide appropriate containment for washouts. Be especially careful of concrete containment near wetlands. Remove the material once work is complete. 10/29/07	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. 10/29/07	Continue to locate hazardous materials and equipment away from wetland inlets such as culverts and CBs. 10/29/07	NA
Black Pond Junction to Beseck SS	Some equipment and supplies are being stored here. A large spill kit is stored onsite. 10/29/07	Always store equipment and supplies away from sensitive areas. Monitor and maintain equipment as needed and provide housekeeping on a regular basis. 10/29/07	NA at this time
	Equipment noted parked adjacent to wetlands south of East Main St. 10/29/07	Relocate and keep equipment parked 100- feet from wetlands when feasible. 10/29/07	Needs attention.
Additional Observations	None. 10/29/07	None. 10/29/07	NA

Next likely	scheduled
inspection:	

Monday November 5, 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: Matt Creighton, BSC Group

Reviewer: Diana Walden, BSC Group



Shunpike Rd.: Turbid water noted at a culvert under the access road. Run-off from the sloped access road is resulting in the turbid water.



Oxbow Jct: Line work underway. Area is stable.



Black Walnut Dr: Ruts and erosion noted along a steep slope on the last pad site upgradient from Ball Brook. Regrade and stabilize; consider adding an erosion control blanket due to the grade.



South of E. Main St.: Foundation installation is complete. Controls are needed as a large disturbed area is present upgradient from wetlands. Equipment is also parked upgradient from wetlands.



North of E. Main St: Foundation drilling is complete. Controls are in place. Continue to monitor carefully. Stabilize and restore disturbed areas as soon as possible, especially adjacent to the wetlands.



Black Pond Jct: Foundation installation underway. Pump truck and settling tanks were used for dewatering.



Black Pond Jct: Foundation installation is underway. Crews were pumping slurry into a settling tank onsite. Controls are in place. Continue to monitor carefully due to wetlands in the area.



Black Pond Jct: Settling tanks were brought to the site for foundation installation and associated dewatering.