

Docket No. 217 – Development and Management Plan Inspection

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

Date: July 5, 2006

Inspector: Lee Curtis

Location: Overhead Line (Composite 345kV and 115kV Gallows Hill to Archers Lane, 345kV H-Frame Hoyts Hill to Gallows Hill, and Norwalk Section)

Storm/

Rain Event: Between 0.41-1.14" of rain was recorded over 7/4-7/5 as reported by NOAA and depending on location.

Areas of Inspection	Observation	Recommended Action	Corrective Action
Access Roads and Adjacent Roadways	- The Composite ROW work is mainly accessible from Gallows Hill Rd by an existing trail path with a swing gate, and an access road passing through the Archers Lane substation. 7/5/06. -Most steep slopes have erosion in the stone dust.	- If necessary, additional measures for stability should be considered for access needs. If any areas still have ruts at the end of the work, they will need to be regraded to return to original conditions. 12/8/05-7/5/06.	-Not Applicable (N/A) until evaluation at the end of work.
Composite	- Active clearing was not noted past Archers Lane. Wood chips have been blown off the cleared ROW in some areas. See the vegetative clearing section for more details. 3/2-7/5/06.	-See vegetative clearing section for details and recommendations. 7/5/06.	- Still needs attention
	- One spot along the access road past Archers Lane has stone dust from the road overtopping the silt fence adjacent to the wetland. A second spot is also piling up. 6/7-7/5/06.	- Repairs should be made either by transition station or overhead crews. Stone/sediment needs to be removed. 6/1-7/5/06. - An additional haybale was installed but is not enough. 6/14/06	-Needs attention- also see transition station report.
345kV H-Frame	- Work areas are accessed from Hoyts	-Continue to monitor the conditions of all access	- N/A at this time

Areas of Inspection	Observation	Recommended Action	Corrective Action
<p>Norwalk Section</p>	<p>Hill, Chestnut Ridge Rd, the Bethel Res. water plant road, Lime Kiln Rd, Whortleberry Rd, John Todd Way and Costa Lane. 3/29-7/5/06.</p>	<p>roads. If muddy conditions re-occur, place more wood chips or consider installing silt fence as needed. 7/5/06.</p>	
	<p>- Washouts were noted within the wood chips in the access road between poles #5-6. 6/7-7/5/06.</p>	<p>- Erosion remains contained to the road but repair if feasible. Maintain existing erosion controls as necessary. 7/5/06.</p>	<p>- Needs attention when feasible.</p>
	<p>- The washout near structure #31 was repaired with stone and a swale was cut along the access road prevent future erosion but this still creates sediment problems. 7/5/06.</p>	<p>-Haybales will be placed in the swale and it will be filled back in. Consider leaving haybales as check dams in this area. 7/5/06</p>	<p>-Needs attention when feasible</p>
	<p>- Controls at Bethel water building from flow off Webb Rd. were in fairly good shape. 7/5/06.</p>	<p>- Flow from Webb Rd during rain events is not project related and will be difficult to control but it is washing out the road significantly 7/5/06</p>	<p>- N/A at this time</p>
	<p>- Stone dust and/or gravel access roads are in place at Perry Ave and Broad St. 4/6-7/5/06.</p>	<p>- Controls are in place. 7/5/06.</p>	<p>- N/A at this time</p>
	<p>-Access is gained to new work areas off North Seir Hill Rd. and Kent Road. The Kent Rd (north) stone access pad is clogged with sediment and dirt is tracking on the roadway. 7/5/06.</p>	<p>- The stone pad should be cleaned out or refreshed and sediment should be swept from the roadway 7/5/06.</p>	<p>- Needs attention</p>
<p>-Access for new ROW clearing and work is also gained from Wilton Terrace to continue moving south to the pond. 7/5/06</p>	<p>- A stone dust access road is in place. See erosion control section. 7/5/06 Mats may be necessary here to reach a structure location. 7/5/06</p>	<p>-N/A</p>	

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>-Several wetlands are matted to the south of Kent Rd. Several spots need maintenance where stone and sediment overtopped the fence. 6/14-7/5/06.</p>	<p>- Repairs may be needed in a few spots in the silt fence in the section south of Kent Rd. 6/7-6/28/06. This needs to be reinforced with haybales if these spots continuously washout. 7/5/06</p>	<p>- Needs attention</p>
<p>Line Construction Composite</p> <p>345kV H-Frame</p> <p>Norwalk Section</p>	<p>- None at this time. Wire installation appears to be largely complete at the Archers Lane structure. 7/5/06.</p> <p>- Crews continue to pull wire off John Todd Way. 6/20-7/5/06.</p> <p>- Old towers remain down in the area of Perry Ave, Kent Rd, North Seir and the Rt.7 extension. They will be removed eventually. 7/5/06.</p> <p>- All foundations that could be accessed by North Seir Hill Rd have been poured. Some of the structures have been installed. 6/7-7/5/06.</p> <p>- Foundation installation continues to the north of Kent Rd. The foundation at the pond was complete. 7/5/06.</p> <p>- Foundation drilling was occurring in the section south of Arrowhead Rd. moving towards the pond. 7/5/06</p>	<p>- None at this time. 7/5/06.</p> <p>- See erosion control section. 7/5/06.</p> <p>- None at this time 7/5/06</p> <p>-None at this time. 7/5/06.</p> <p>- See erosion controls section for recommendations. 7/5/06.</p> <p>- See erosion controls section for recommendations. 7/5/06.</p>	<p>-N/A</p> <p>-N/A</p> <p>- N/A</p> <p>-N/A</p> <p>- N/A</p> <p>- N/A</p>
<p>Erosion and Sediment Controls</p>	<p>- Water levels appear to remain below problem levels at the 2nd wetland crossing along the Archers Lane access</p>	<p>- None at this time. 7/5/06.</p>	<p>-N/A</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
<p>Composite</p> <p>Erosion controls continued</p> <p>345kV H-Frame</p> <p>Chestnut Ridge Section</p>	<p>road. 2/16-7/5/06.</p> <p>- Silt fence is being overtopped by sediment piling up from run-off on the access road past Archers Lane. 6/1-7/5/06</p> <p>- Wood chips had been blown into the uplands and wetland area at the third structure in from Gallows Hill Road. 2/22-7/5/06. Another area with deep wood chips off the cleared ROW remains past Archers Lane. 3/15-7/5/06.</p> <p>-Turbid run-off had been noted in the 3rd wetland past Archers Lane last week but it was difficult to determine the exact point of entry. Water levels had decreased since. 7/5/06</p> <p>- An old stockpile was noted at a structure before Rt 53 off Gallows Hill. 5/17-7/5/06</p> <p>- Disturbed soil remains adjacent to structure #34 off Gallows Hill. Controls had been straightened up but sediment was still encroaching. 6/28-7/5/06</p> <p>-The majority of the pile at structure#6 has been removed but soil remains encroaching on wetlands 4/12-7/5/06.</p>	<p>-The overtopping areas should be repaired and stone pulled back and removed from the wetland. 6/1-7/5/06</p> <p>-Make sure chips stay on the ROW. Contractors should remove the off ROW chips since this is not allowed in the D&M plan. 2/22-7/5/06.</p> <p>- Wood chips on the ROW can remain at a depth of 3". Deeper piles should be spread out. 4/6-7/5/06.</p> <p>- Maintain controls here. Determine where the run-off is entering and repair it. 6/28-7/5/06</p> <p>-Make sure that restoration occurs in previously disturbed areas and that materials are removed and not forgotten in place. 5/17-7/5/06</p> <p>- The soil should be pulled back and the area vegetated- even if it is temporarily. 6/14-7/5/06</p> <p>- Remove the soil here as soon as conditions can support this without further impact. 2/22-7/5/06.</p>	<p>- Needs attention from either transition station or overhead crews</p> <p>-Still needs attention (CL&P is looking into a solution here)</p> <p>- Needs attention</p> <p>- Needs attention when feasible</p> <p>- Haybales were straightened up but still needs attention when feasible.</p> <p>- Needs attention when feasible</p>

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<p>Bethel Reservoir Section to Chestnut Ridge Rd.</p> <p>Costa Lane, Whortleberry, Lime Kiln and John Todd Way</p> <p>Norwalk Section</p> <p>Kent Rd. (North – new ROW section)</p>	<p>- Non project related vehicles had not returned to the stream & wetland between poles #10-11. But ruts and disturbance remain. 6/28-7/5/06.</p> <p>- The overwhelmed silt fence at pole #24 was repaired. Some additional fence was also installed due to the access and clearing for wire pulling 7/5/06.</p> <p>- The driveway contractor (unrelated to the project) remains in this area. Silt fence has been installed near the work but turbid water had been noted in the wetland. 6/28-7/5/06.</p> <p>- Erosion near structure #31 was repaired but a swale was cut to the side of the access road. This is leading to different sedimentation issues. 7/5/06</p> <p>-The area of silt fence near pole #11078 is in place but is beginning to fill up with sediment again. 7/5/06.</p> <p>- The foundation near the Norwalk substation has good silt fence coverage. 5/17-7/5/06. However, bare, exposed soil remains adjacent to the foundation. 6/7-7/5/06</p>	<p>- The ruts in the stream or wetland should be smoothed out and silt fence should be placed across the ROW to prevent sedimentation and help discourage access. 5/17-7/5/06</p> <p>- Install haybales for additional control/ reinforcement since the areas tends to washout 7/5/06.</p> <p>- This is not project related but should be noted for the record in case there are issues here later. 6/7-7/5/06.</p> <p>- Haybales were placed to block off the swale and it will also have to be filled in. 7/5/06</p> <p>-Continue to monitor and maintain prior to a washout 7/5/06</p> <p>-Continue to monitor due to proximity of the river. Restore the adjacent area with vegetation to reduce potential run-off, even if it is temporarily. 6/7-7/5/06</p> <p>- Timber mats will be</p>	<p>- Needs attention (even though the majority of the damage is not project related.)</p> <p>- Additional silt fence was added and existing fence was repaired.</p> <p>- Not project jurisdiction</p> <p>- Needs attention.</p> <p>-Needs monitoring</p> <p>- Needs attention if feasible</p> <p>-The structure location</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
Kent Rd. (South)	<p>-A structure location off Wilton Terrace will be at the edge of a wetland area and temporary access impacts may be necessary. 7/5/06</p> <p>-Although water in the stream was not turbid, portions of the banks need silt fence extended due to lack of vegetation 6/7-7/5/06. Additional clearing work was noted here. 7/5/06</p> <p>- The foundation near the pond had been drilled/installed without erosion controls in place. 6/28-7/5/06</p> <p>-The one section of silt fence remains along the pond. The pond was not receiving any turbid run-off. 6/7-7/5/06</p> <p>- Mats were in place at the pooled wetland crossing as well. Water here remains clear without obvious turbidity. 6/7-7/5/06</p> <p>- Mats are installed along much of the ROW south of Kent Rd. During the heavy rains, sediment and stone overtopped the silt fence again 6/28-7/5/06.</p>	<p>installed for access and erosion controls will be placed at the work limits. Haybales are appropriate if the workspace is tight. 6/28-7/5/06</p> <p>-Extend the silt fence along both banks of the stream to prevent run-off from the recently cleared areas. 6/7-7/5/06</p> <p>-Controls are needed, especially with crews working here</p> <p>-Install controls along this work without encroaching on the existing vegetation. Haybales or silt socks would be appropriate even though work is already complete. 6/28-7/5/06</p> <p>- Continue to monitor. Watch silt fence for any areas that need to be toed back in. 6/7-7/5/06</p> <p>- Erosion controls were well installed and should be maintained. 6/7-7/5/06</p> <p>- Pull silt fence up and repair. These areas will be difficult to control during heavy rain due. Pull stone/sediment back from wetland where necessary. 6/7-7/5/06.</p> <p>- Install haybales as reinforcement as this area tends to washout. 7/5/06</p>	<p>will be pulled back even further</p> <p>- Needs attention</p> <p>- Needs attention.</p> <p>-N/A</p> <p>-N/A</p> <p>- Needs attention</p>
Inland Wetland and	-The D&M plan approved stone on	- As the access is considered temporary, the	-N/A until evaluated at the end of work.

Areas of Inspection	Observation	Recommended Action	Corrective Action
<p>Watercourse encroachment and mitigation</p> <p>Composite</p> <p>345kV H-Frame</p> <p>Norwalk Section</p> <p>All Sections</p>	<p>geotextile fabric at the wetland crossings have worked well. 4/6-7/5/06.</p> <p>- Turbidity had been noted in the wetland at the 3rd crossing from access road run-off on 6/28/06 but the water level has since receded. 7/5/06</p> <p>- At structure #6, most of the mud was removed from the wetland and they will continue to do so. 4/6-7/5/06.</p> <p>- Non project related vehicles had not returned to the wetland between #10-11 but damage remains 6/28-7/5/06</p> <p>-Off Kent Rd north, silt fence should be extended at the stream. It should also be extended at the pond to encompass the recent foundation work 6/28-7/5/06.</p> <p>- Some access impact will occur at the edge of a wetland near the Kent Rd pond in order to access a foundation location. 6/28-7/5/06</p> <p>- Use caution in clearing trees from wetland areas. Avoid creating ruts when skidding them out. 3/29-7/5/06.</p> <p>-If a wetland is being used as amphibian breeding habitat, retaining some wood debris at its boundaries</p>	<p>stone will be removed when final work ends so the wetlands can be restored. 1/26-6/28/06.</p> <p>- Maintain controls and identify where the run-off was entering 6/28-7/5/06.</p> <p>- Continue to remove entire pile. 2/16-7/5/06.</p> <p>- Ruts should be smoothed out and silt fence added in an attempt to discourage access. 5/25-7/5/06</p> <p>-Carefully remove some of the branches and debris noted in the stream and extend silt fence where recommended. 6/7-7/5/06.</p> <p>- Mats and controls will be utilized in this area and the location will be moved back even farther. 6/28-7/5/06</p> <p>- Retain shrubs and low growth as much as possible, especially at stream buffers. 3/2-7/5/06.</p> <p>-Carefully remove brush piles and trees from near wetland areas. 3/2-7/5/06.</p> <p>- Watch this near the pooled area on the new</p>	<p>-Needs attention</p> <p>-Needs attention when feasible.</p> <p>-Needs attention (the majority of disturbance is from non project related vehicles)</p> <p>-Needs attention see erosion control section</p> <p>-N/A at this time</p> <p>- N/A</p> <p>-N/A</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
	may be beneficial. 3/2-7/5/06.	ROW section	
State species of concern, threatened and endangered species	<p>- The composite portion of overhead work includes state-listed turtle habitat area. 9/15-7/5/06.</p> <p>-An Eastern box turtle was noted crossing the access road near structure #7 in the Chestnut Ridge Rd section on 6/14/06.</p>	<p>- Now that weather is warmer, daily walkthroughs should be occurring prior to any work in the area. 4/6-7/5/06.</p> <p>- Perform walkthroughs in this new section as well. 6/14-7/5/06.</p>	<p>-N/A at this time</p> <p>-N/A</p>
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p> <p>Composite</p> <p>345kV H-Frame</p> <p>Norwalk Section</p>	<p>- Adjacent homeowners near Gallows Hill mentioned damage to mountain laurel and other shrubs. 3/2-7/5/06.</p> <p>- A significant amount of chips were blown off the ROW into the upland and also along the wetland edge at the 3rd structure off Gallows Hill. These areas are off property. 2/22-7/5/06.</p> <p>-This was also noted several structures past Archers Lane. 3/15-7/5/06.</p> <p>-Clearing was not actively occurring along the ROW past Archers Lane. 7/5/06.</p> <p>- Some additional clearing was needed for wire pulling near structure #24. Additional silt fence was added 6/28-7/5/06</p> <p>- Some clearing of new ROW continues north of Kent Rd., coming in from the other end of the pond. Some additional</p>	<p>-In general, take care in retaining shrubs and use mats to access or skid out trees from wetlands. 2/22-7/5/06.</p> <p>-Replace shrubs where necessary. 7/5/06.</p> <p>- Chips currently off ROW boundaries should be removed carefully to comply with the D&M plan. 2/22-6/28/06. Chips on ROW should be spread to a depth of 3". 4/6-7/5/06.</p> <p>- To avoid wetland damage, trees here will be sheared from the access road and felled out of the water. 3/15-7/5/06</p> <p>-Continue to monitor. 6/28/06</p> <p>- Be extremely careful to retain shrubs and vegetation where feasible. 5/25-7/5/06.</p>	<p>-Needs attention when feasible</p> <p>- Still needs attention CL&P is looking into this.</p> <p>- CL&P proposed the work under these specs.</p> <p>-Silt fence was added</p> <p>-N/A</p> <p>-Needs attention</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
	clearing/ log removal was noted near the stream crossing 7/5/06. - Some efforts were made to retain stumps and shrubs near the pond, stream and pooled area. 6/7-7/5/06.	-More controls are needed at the stream. 7/5/06 - Some downed branches were noted in the stream that could be carefully removed. 6/7-7/5/06	- N/A.
Dewatering	- No obvious dewatering efforts were noted at the time of inspection. 7/5/06.	- Release water to the ground only in well vegetated areas if it will not reach any resource areas. (Make sure to check downgradient for these areas) Otherwise use a filter bag or adequate containment. 3/9-7/5/06.	-N/A at this time
Blasting	-No blasting has been necessary at this time on the ROW. 7/5/06.	-None at this time. 7/5/06.	-N/A
Spills and Material Storage	-None of the parked or active equipment was leaking at the time of inspection. 3/15-7/5/06. - In general, equipment should be parked over 100 ft from resource areas or as far as feasible. 7/5/06	- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site - Keep adequately size fuel kits for worst-case scenarios. - Report spills immediately, even if they are being controlled. - Avoid refueling in the areas near the wetlands. Use proper storage for all materials.	-N/A - Continue to monitor
Additional Observations	- The bike path was in place within the ROW moving north from the Norwalk substation. Adjacent areas were restored 7/5/06	- This is 115kV jurisdiction.	-N/A

Next likely scheduled inspection:

Wednesday July 12, 2006

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.

Inspector's Signature: Diana Walden for Lee Curtis



(Composite Section): Photo on the left shows the spot along the Archers Lane ROW where the access road stone was close to overtopping the fence near the 2nd wetland. Photo on the right shows where the wetland is recovering from the skidder damage this winter. 7/5/06



Photo on the left shows the 3rd wetland crossing past Archers Lane where turbid water from the access road was noted last week. Maintain controls where necessary. (345kV H-Frame): Photo on the right shows erosion controls holding near structure #2. 7/5/06.



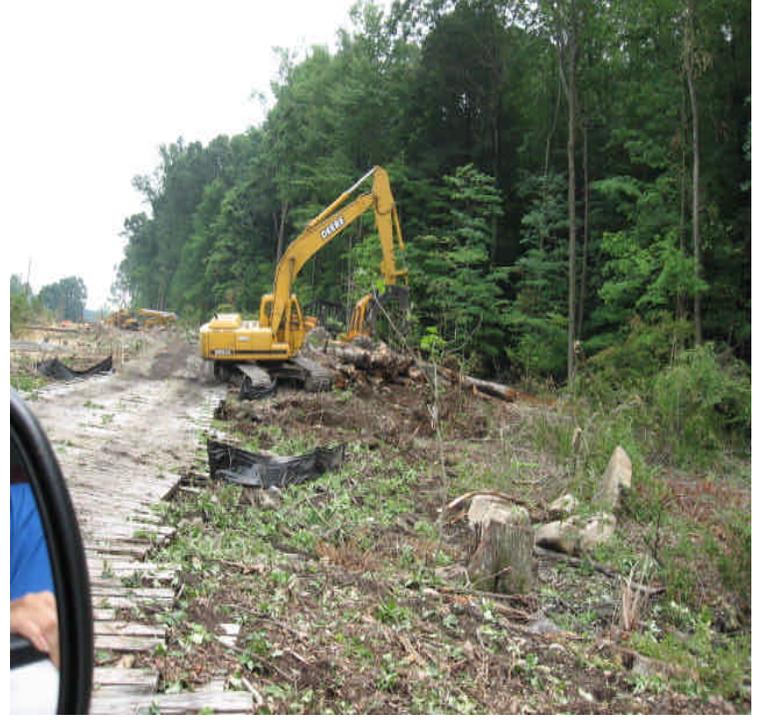
Photo on the left shows the residential contractor in the background and some wood chips in the ROW in the foreground near structure #24. The pile should be spread out to an appropriate depth. Photo on the right shows where the additional silt fence was installed as recommended.



Photo on the left shows the wire pulling occurring near John Todd Way. Photo on the right shows where the silt fence was repaired in this area following a washout last week. 7/5/06.



Photo on the left shows a swale cut in an attempt to direct erosive run-off flow in the area of structure #31 but in turn, it created new sedimentation issues. (Kent Rd) Photo on the right shows where controls (haybales, silt sock or silt fence) are needed near the new foundation installation. 7/5/06.



Both photos show additional clearing work near the stream crossing on the new ROW section. Controls need to be extended along both stream banks here since the soil is now exposed and disturbed. 7/5/06



Photo on the left shows a view along the new ROW clearing north of Kent Rd off Wilton Terrace. Photo on the right shows the edge of a wetland area near a proposed foundation location adjacent to the pond. 6/28/06



Photo on the left shows the view of the wetland swale where access would need to occur to reach the foundation. Mats and erosion control would be needed. Photo on the right shows a spot near structure #11078 where sediment was beginning to pile near the silt fence. Continue to monitor and remove if it becomes a problem. 7/5/06