

**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, 2005

**Inspector:** Diana Walden

**Location:** 345kV XLPE Component

**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	<p>-The jack and bore of East Swamp Brook is accessed from the roadway. A crane pad is in place in order to install the sheet piling in the stream. 7/5/06.</p> <p>- No obvious sediment tracking was present on the roadway but silt fence is up along some ruts noted in the ballpark yard. 7/5/06</p> <p>- The crane is on a pad to avoid disturbance to the area above the bank. 7/5/06</p> <p>-The vault near Plumtree Substation continues to be accessed. 5/17-7/5/06</p> <p>- Trench work is complete along Rt 58 and the road is reopened. 7/5/06</p> <p>- Good efforts were noted to repair the gully/washout along the slope</p>	<p>- Equipment is located on both sides of the bore as well as in the adjacent ballpark during the day. 7/5/06.</p> <p>- The adjacent area will be restored when access is complete. Monitor tracking on the roadway. 6/20-7/5/06</p> <p>- None at this time. 7/5/06</p> <p>- None at this time. 7/5/06</p> <p>-The street was swept and then controls in CBs were removed. 7/5/06 None at this time.</p> <p>-The washout re-formed before vegetation could establish in the recently</p>	<p>- Not applicable (N/A)</p> <p>-Silt fence is in place at the ballpark</p> <p>- N/A</p> <p>-N/A</p> <p>- Work is complete and the road was swept</p> <p>- Check dams were placed and the washout was</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>of Whittlesey Dr. The gully was repaired and haybales were placed as check dams but the recent storm washed portions of it out again. 7/5/06</p> <p>-Timber swamp mats were in place at the Hoyts Hill access off Rt. 58. This is not for 345kV XLPE work. 620-7/5/06</p>	<p>restored areas. Crews will try again to restore the area. 7/5/06</p> <p>- Restore the area and remove stone when applicable, following the access needs. Do not access without mats in place. 7/5/06</p>	<p>repaired. (Attention is needed again)</p> <p>- Needs attention when work is complete.</p>
<p>Trench and foundation construction</p>	<p>- Work at the jack and bore of East Swamp Brook located at the intersection of Plumtrees Rd. Walnut Hill Rd. and Whittlesey Dr. has resumed. The crane remains in place on the pad on the stream bank. Sheet piling was installed in the 1st half of the stream and gravel fill was in place in the enclosed area. 7/5/06</p> <p>- The bore is completed into the diversion area and preparations were made to shift the sheet piling. 7/5/06</p> <p>- Sandbags had been moved by hand to the opposite bank in preparation for the shift. 7/5/06</p>	<p>-Monitor the work carefully to avoid turbidity or any fill. The stream appeared to be in good condition. The fill will be removed and the bed restored with river stone. 7/5/06</p> <p>- Leave the diversion line of sheet piling in place until the fill is removed and the bed restored. 7/5/06</p> <p>- Both banks are reinforced well. Liner will be extended along the bank on the work side. 7/5/06</p>	<p>-N/A at this time</p> <p>- N/A at this time</p> <p>- N/A at this time</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>-Active trenchwork and conduit bank installation is complete along Rt. 58. Repair of guardrails and miscellaneous tasks remain. 7/5/06</p> <p>-Vaults were being accessed to pull cable between some locations. 5/25-7/5/06</p>	<p>- See EC section for more details. 7/5/06</p> <p>- None at this time. 7/5/06</p>	<p>-N/A</p> <p>- N/A</p>
<p>Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)</p> <p><b>Jack and Bore</b></p> <p><b>Whittlesey Dr and Judd Ave</b></p>	<p>- Silt fence in in good shape at vault 2A&amp;B. Adjacent areas are well restored and will continue to revegetate. 7/5/06</p> <p>-Work continues here. The opposite bank is now lined and reinforced with sandbags and a boom remains across the stream in an attempt to filter turbidity. 7/5/06</p> <p>- The sheet piling around the 1<sup>st</sup> half of the stream will be shifted soon. The gravel fill will be removed and the bed restored before flow is allowed back to this side 7/5/06</p> <p>-Silt fence is up along the access to the stream in the ballpark entrance due to some tracks from the equipment. 7/5/06</p> <p>- The gully/ washout along the slope of Whittlesey Dr. was repaired and mulched and haybales were placed as check dams but the recent rains washed portions out again 7/5/06</p>	<p>- Continue to monitor but the restoration efforts were good. 7/5/06</p> <p>-The stream was still running fairly clear at the time. Some minor turbidity was noted as a result of moving the sandbags by hand and the recent rains. 7/5/06</p> <p>- Continue to monitor. Clean river stone will be placed back into the stream bed. 7/5/06</p> <p>- None at this time. The area will be restored when work is complete. 7/5/06</p> <p>- The gully re-formed before vegetation could establish despite the restoration efforts. Crews will attempt to restore again. 7/5/06</p>	<p>-N/A</p> <p>-N/A at the time</p> <p>- N/A at the time</p> <p>- Silt fence is in place.</p> <p>- Good restoration efforts were made but it needs attention again.</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
<p><b>Rt. 58</b></p> <p><b>Hoyts Hill</b></p>	<p>- Sediment from the slope washed to a catch basin here. 7/5/06</p> <p>- Areas along Rt 58 were restored, mulched and seeded. Streets had been swept. 7/5/06</p> <p>- Mats remain the base of slope at Hoyts Hill. Access is needed for other contractors pulling wire. 345kV crews will be restoring this area when access is complete. 7/5/06</p>	<p>- Crews were cleaning this out at the time of inspection. 7/5/06</p> <p>- None at this time. 7/5/06</p> <p>-When access needs are complete, restore and allow wetland vegetation to return. All stone and gravel will have to be removed carefully and then high organic content soil should be placed here. Do not fill over the gravel. 7/5/06</p>	<p>- Crews were already cleaning the basin.</p> <p>- Roadside areas were restored.</p> <p>-N/A until access is done.</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>-Work in East Swamp Brook continues under ACOE clearance. Sheet piling remains in the stream bed and is about to be shifted to the opposite bank. Gravel fill is in place inside the diversion. 7/5/06</p>	<p>- Work in the stream should be carefully monitored. It is currently in good condition. Remove fill and replace river stones in the bed before flow is allowed back through the area. 7/5/06</p>	<p>-N/A at this time</p>
<p>State species of concern, threatened and endangered species</p>	<p>-The D&amp;M plan and clearance letter states that state-listed species are not located in this work area.</p> <p>-The wood turtle was noted at Plumtree Substation during the 5/25/06 inspection.</p>	<p>- N/A</p> <p>-345kV XLPE crews should also be performing daily walkthroughs before moving equipment while working in the vault. Be vigilant when moving equipment. 4/26-7/5/06</p>	<p>-N/A</p> <p>- Crews were informed</p>
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p>	<p>-The washout adjacent to the sidewalk at the Whittlesey Dr slope was repaired but washed out again. 7/5/06</p> <p>- Other restored areas had noticeable grass growth. Roadside areas</p>	<p>-See erosion control section. 7/5/06</p> <p>- Continue to monitor for final stabilization. 7/5/06</p>	<p>-Area was repaired</p> <p>- Rt 58 roadside areas were restored</p>

Areas of Inspection	Observation	Recommended Action	Corrective Action
	<p>along Rt 58 were restored. 7/5/06</p> <ul style="list-style-type: none"> <li>- Vault 2 remains well restored with vegetation allowed to return adjacent to the manhole access area. 7/5/06</li> <li>- The area near vault 5 and adjacent to the ballpark remain to be restored. 7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- The area is in good condition. 7/5/06</li> <li>- These areas will be restored when access needs are complete. 7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>- N/A until access needs are complete</li> </ul>
Dewatering	<ul style="list-style-type: none"> <li>- The dewatering system from well points at the jack and bore had resumed in order to keep the trench workable. 6/28-7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- Continue to use all necessary controls. 6/7-7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> </ul>
Blasting	<ul style="list-style-type: none"> <li>- No blasting is occurring at this work area.</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time.</li> </ul>	<ul style="list-style-type: none"> <li>-N/A</li> </ul>
Soils	<ul style="list-style-type: none"> <li>- Soil had been handled appropriately during the Rt 58 trenchwork and all work sites were clean and contained. 7/5/06</li> <li>- Topsoil remains stripped and stockpiled at the contractor yard. 3/15-7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- None at this time. 7/5/06</li> <li>- None at this time. Controls are well installed here. 3/15-7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- N/A</li> <li>-N/A</li> </ul>
Spills and Material Storage Areas	<ul style="list-style-type: none"> <li>- Equipment should be stored overnight up to 100ft or as far from resource areas where practicable. 1/19-7/5/06</li> <li>- Environmentally safe, biodegradable hydraulic oil was being used in the generator on site of the jack and bore. 7/5/06</li> </ul>	<ul style="list-style-type: none"> <li>- Report spills immediately, even if they are being controlled.</li> <li>- Any fuels and agents not in use should be covered and stored before leaving for the day.</li> <li>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</li> </ul>	<ul style="list-style-type: none"> <li>-N/A at the time</li> </ul>

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*



**345kV XLPE: Both photos show the slope along Whittlesey Drive where repairs had been made to the erosion along the sidewalk. However, even with the haybale check dams and good restoration efforts, the timing of the rain event caused some additional washouts. 7/5/06**



**Photo on the left shows the vault 2 area well restored with erosion controls moved closer to the vault manholes. The adjacent area will be allowed to revegetate. Photo on the right shows some of the disturbance caused by accessing the stream work. However, silt fence is in place and the area will be restored following work. 7/5/06**



Photo on the left shows the view into the area enclosed by the sheet piling. Gravel fill had been placed in this area above the bore. It will be removed when work is complete and river stone will be placed in the streambed. Photo on the right shows where sandbags were moved to the opposite streambank in preparation for shifting the sheet piling. 7/5/06



Photo on the left shows the boom in place across the river. Some minor turbidity resulted from the crews moving the sandbags by hand but water remains fairly clear. Photo on the right shows the access pad off Rt 58 to Hoyts Hill which 345kV XLPE crews will be restoring following wire pulling. Be sure to remove all stone and gravel and replace with soil with high organic content.