

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: October 19, 2005

Inspector: Diana Walden

Location: 345kV Underground Route

Storm/

Rain Event: Significant amounts of rain continued to accumulate from the storm event over the last inspection. An additional 4” fell over 10/13-10/14.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	<ul style="list-style-type: none"> - Trenching, pipe installation, and sawcutting operations continue in several locations along Rt. 7 in Wilton during the night. 10/19/05 - Trenching and pipe installation, continued during the day along Umpawaug Road which is closed to through traffic. 10/5-10/19/05 -The jack and bore near Allens Meadows Park continues. Backfilling of the southern (jacking) pit is completed but the settling basin is still in use and some turbidity issues were still present. 10/19/05 - The Horizontal Direction Drill at School Rd. ran into problems and required some excavation to retrieve the drill head. 10/19/05 	<ul style="list-style-type: none"> -The majority of the work has been in the roadway and seems contained for the most part but there are a few issues that require attention. Continue to provide attention to any off- road areas that need restoration. Continue providing good “house-keeping” along the roadways. 10/19/05 -Several small maintenance issues were addressed at the time of the visit. Turbidity problems are still present to a lesser degree. 10/19/05 -The excavation area caused some significant sedimentation issues beyond the installed erosion controls. 10/19/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - Reseeding/restoration was noted in some areas but is still needed in others (vaults along Umpawaug) as work is completed. 10/19/05 	<ul style="list-style-type: none"> - Continue to restore disturbed areas in the appropriate time frame as per the D&M plan. 10/19/05

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p>Route 7</p>	<ul style="list-style-type: none"> - Attempt to control all catch basins as well as outlet points off the road when work is in the vicinity. Haybales were observed in some catch basins at the time of inspection. 10/19/05 - Silt fence was pushed down at the base of slope near #475 Rt 7 at Olmstead Hill Rd. Some disturbance was adjacent on the side of the road. 10/5-10/19/05 -The southern (jacking) pit at the jack and bore has been completely backfilled while the northern pit remains partially open. The settling basin is still in use and still full of water. Several breakouts were noted and some were getting under the perimeter silt fence. 10/19/05 -Turbidity issues were still present in the stream here but not to the degree they have been. During the day following the inspection, the water in the basin was very clear. 10/19/05 -The silt fence on the northern side of the stream was well in place. 10/19/05 -Sediment accumulation was noted in the stream at the outlet and this will need to be removed when work is done. 10/19/05 -The HDD at School Rd. had run into problems as the drill head disconnected and had to be excavated out. A large area adjacent to the erosion controls was disturbed and the heavy rain caused sedimentation to the wetlands beyond. 10/19/05 	<ul style="list-style-type: none"> - Make sure that haybales are placed in the catch basins during the nightwork and continue to maintain them. Filter fabric is also an accepted measure if haybales are difficult to maintain. 10/1/05 -Repair and maintain fence or provide restoration as needed. 10/19/05 - The work here is on its way to being complete and some maintenance was performed the day of and the day after the inspection. 10/19/05 -Silt fence was toed in several locations and additional haybales were installed. Stone was also placed to filter the breakout flows. Conditions were improved before the forecasted weekend storm. 10/19/05 -Continue to be maintain as necessary. 10/19/05 -The least impacting way to remove the sediment is likely by hand/shovel. Very controlled vac truck use may also be appropriate. This should be done carefully and with the instream controls in place. 10/19/05 -Erosion controls had been reinforced and there were several good haybale/silt fence lines but sediment still made it through. 10/19/05

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p>Rt. 107 Daywork</p>	<ul style="list-style-type: none"> - In the several days following the inspection, the area was excavated into a low detention area with stone and haybales at the perimeter in order to prepare for the rain forecasted over the weekend. 10/19/05 - A portion of the site where brush clearing and disturbance occurred to the east needed to be encompassed in more silt fence. 10/19/05 - BSC did note haybales on catch basins along Umpawaug Rd. 10/19/05 - The side of the road near Parsons Lane was somewhat torn up due to equipment. A wet swale flows through here so the area should be restored. A haybale was installed at the end of the swale. 10/19/05 - A storage area just at the Umpawaug Rd./Rt. 107 intersection needs additional silt fence to encompass the disturbed area. 10/13-10/19/05 - A vault installation near #134 Umpawaug Rd. had bare soil remaining with a small stockpile. 10/5-10/19/05 - An area near #124 Rt. 107 was disturbed several weeks ago off a side road or driveway by equipment parking. 9/29-10/19/05 	<ul style="list-style-type: none"> - Good efforts were made to improve the situation and the contractors were very responsive. 10/19/05 - Extend the silt fence to enclose this piece. 10/19/05 - In general, catch basins should also be cleaned regularly and roadways swept of sediment attributed to the project. 10/19/05 - Restore the area with grading (including the original channel) seed and mulch. 10/19/05 - Install additional fence as needed. 10/19/05 - The area should be stabilized and restored and the soil controlled as it is immediately upgradient from a swale. 10/5-10/19/05 - Continue restoration measures here. The area is along a swale so it is important to stabilize. 10/19/05
<p>Adjacent Wetlands and Waterways</p>	<p>- At the jack and bore near Allens Meadow Park, the stream has some remaining turbidity issues but not as serious as before. Accumulated sediment was</p>	<p>- Hand shoveling is likely the best solution but very careful vac truck use may be an option depending on the amount of sediment. 10/19/05</p>

Areas of Inspection	Observation	Recommended Action
	<p>still noted here. 10/19/05</p> <p>- The work at the HDD site caused a noticeable amount of sediment to build up in the stone channels and adjacent wetlands. Accumulated sediment was also noted in a side channel up to the Norwalk River. 10/19/05</p>	<p>- At the inspection we decided sediment will be removed by hand when conditions dry out a little. Most was removed by the end of the week. 10/19/05</p>
<p>Staging, Storage, and Parking Areas</p>	<p>- The silt fence at the equipment storage yard located on property south of the Rt. 7 & 107 intersection is in place. 10/19/05</p> <p>- Additional silt fence is required at the School Rd. HDD area along the eastern side to encompass the disturbed area and brush piles. 10/19/05</p>	<p>- Continue to maintain. 10/19/05</p> <p>- In general, materials should be placed appropriately in storage areas or immediately adjacent to work each night. No potentially spillable materials should be left behind or out overnight. 10/19/05</p> <p>- Install the additional fence as soon as possible. 10/19/05</p>
<p>Soils</p>	<p>- Most soils along the project route are being trucked to a waste facility in Danbury for storage and eventual disposal. However, any soils from the work in Redding which meet the RSR levels are being used in the landfill as daily cover.</p> <p>- Backfill soils are allowed to be stored along Umpawaug Rd. but only for the day. If stored longer, silt fence must be installed. 10/5-10/19/05</p>	<p>- Soils appear to be handled appropriately. 10/19/05</p> <p>- The DPW may request some of the soil for roadside work if soil tests results are appropriate. 10/5-10/19/05</p>
<p>State species of concern, threatened and endangered species</p>	<p>- No species of concern are located in this area of construction.</p>	<p>- N/A</p>
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p>	<p>- Restoration measures were doing well along the roadway north of Georgetown Deli and grass was starting to grow. 10/19/05</p> <p>- Areas of bare soil were present along Umpawaug Rd.</p>	<p>- None at this time. 10/19/05</p> <p>- Attend to the other areas in the appropriate time frames. 10/19/05</p>

Areas of Inspection	Observation	Recommended Action
	near #134 and #74. 10/13/05	
Dewatering	<p>-Dewatering that occurs within the trench work along Rt. 107 and Rt. 7 is being directed to a frac tank truck.</p> <p>- Dewatering continues from both the jacking and receiving pits at the jack and bore. At the time of inspection, there was considerable volume of water going to the basin and it was fairly clear by the end of the week. 10/5-10/19/05</p>	<p>- It could be determined whether the watershed basin is stressed due to removal of the groundwater.</p> <p>-Continue to figure out ways to remove turbidity and complete work at this area as soon as possible. 10/5-10/19/05</p>
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills and Material Storage	- In general, make sure that glues, asphalt components and other materials are stored well overnight and not left out along the roadway. Materials had been stored well at this inspection. 10/19/05	<p>- The contractors should remain vigilant about securing and handling fuel containers.</p> <p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site.</p> <p>- Check equipment status on a regular basis and keep spill kits on hand.</p> <p>- Report spills immediately, even if they are being controlled.</p>
Additional Observations	- Adjacent work on the roadway has resulted in some observed damage to cable guardrails on Rt. 107. 9/29-10/19/05	

Next likely scheduled inspection:

Thursday, October 27, 2005

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 (Umpawaug Rd Daywork): The photo on the left shows the active trenching on Umpawaug Road. The photo on the right shows a stockpile area left over at a vault installation near #134. Some silt fence or haybales should be placed downgradient as a swale is in the vicinity. 10/19/05



Photo on the left shows where pipe has been installed with a rutted area at the edge of the roadway. A wet swale runs through here so the area should be smoothed out and restored. A haybale is in place at the end. Photo on the right shows the storage area at the Rt 107 intersection. Controls are installed better here. (10/19/05)



345kV (Route 107 and 7): The photo on the left shows good restoration and regrowth by Georgetown Deli with the previously dry channel flowing following the rains. Photo on the right shows pipe being installed at the north side of the jack and bore. 10/19/05



345kV (Wilton HS): General view of the jack and bore on the southern side. The pit on this end has been completely closed up and backfilled. (10/19/05)



Photo on the left shows where several breakout flows are leaving the settling basin. During the inspection, additional controls were installed to filter the water before it reached the stream. Photo on the right shows the stream with mostly clear flow but some turbidity. (10/19/05)



345kV Horizontal Directional Drill: The drill head separated as it was being removed from the bore, resulting in the excavation of this area to recover it. The rains created a muddy pit. (10/19/05)



Due to rain run-off through the excavation area, sediment build up was noted in the wetlands beyond despite the controls in place. Photo on the left shows the noticeable sediment immediately beyond the drill and photo on the right shows the intersection of this channel with the Norwalk River. The line where sediment had accumulated could be distinguished. (10/19/05)



Photo on the left shows where turbid water had pooled up on the drill side of the controls but was still entering the wetlands. Photo on the right shows where brush and bare soil were piled at the edge of work. Silt fence should be extended here to help reduce turbidity. (10/19/05)



(HDD) Within a few days of the inspection, the disturbed area was regraded and excavated in an attempt to prevent runoff to the adjacent wetlands during the predicted rains this weekend and early next week. Controls were also repaired and reinforced and work was done to removed built up sediment.



(Jack and Bore) The jack and bore area was also cleaned up prior to the predicted rains with much cleaner water in the basin and a number of additional controls and stone to help filter breakout flows.