

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 13, 2005

Inspector: Brian Sakidovitch

Location: 345kV Underground Route

Storm/

Rain Event: Extremely significant amounts of rain were reported by NOAA since the last inspection with up to 6.25” on 10/6-10/7 and 2.31” on 10/12.

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. 10/13/05 - Trenching and pipe installation, continued during the day along Umpawaug Road which is closed to through traffic. 10/5-10/13/05 -The jack and bore near Allens Meadows Park continues. Partial backfilling has occurred but the settling basin is still in use and turbidity issues are still present. 10/13/05 - The Horizontal Direction Drill beginning at School Rd. has started to get underway with the initial boring. 10/13/05 	<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. 10/13/05 -The settling basin remains turbid and with the heavy rains, a number of maintenance issues were noted. 10/13/05 - Some additional work on the erosion controls is needed here. 10/13/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - Silt fence at the original storage yard near the Rt. 107 and 7 is in place. 10/13/05 - Reseeding/restoration was noted near Blue Ridge Rd. 	<ul style="list-style-type: none"> -Continue to maintain the fence as needed. 10/13/05 - Continue to restore disturbed areas in the appropriate time frame. 10/13/05

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p>Route 7</p>	<p>- 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. 10/13/05</p> <p>- Silt fence was pushed down at the base of slope near #475 Rt 7 at Olmstead Hill Rd. Several small soil piles were noted here. 10/5-10/13/05</p> <p>-The jack and bore site has partial backfill on the jacking pit side but the heavy rains have further degraded the site. The settling basin is still turbid and some of the turbidity continues to reach the stream despite of the many controls. 10/13/05</p> <p>-The large volume of water and rain has overwhelmed the controls and water was running over the silt fence. 10/13/05</p> <p>-The silt fence on the northern side of the stream had been repaired but another section has fallen off the stakes. 10/13/05</p> <p>- The stream volume is much higher due to the rain but the water clarity is still impacted by the settling basin discharge. It is likely this increased flow will have flushed out the sediment accumulation. 10/13/05</p> <p>-The HDD yard at School Rd. is muddy due to the rain. Erosion controls were partially placed but stockpiles and portions of the disturbed areas were not enclosed. 10/13/05</p>	<p>- 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. 10/13/05</p> <p>-Repair fence and either remove or enclose soil piles here. Install fence in any work areas adjacent to wetlands or swales. 10/5-10/13/05</p> <p>-Continue to find solutions to better filter the water and finish the work in this area as quickly as possible. The basin should be overhauled again if work is to continue here. 10/13/05</p> <p>-The many controls here are not filtering this water successfully. Significant upgrades are needed again. 10/13/05</p> <p>-The fence should be repaired as soon as possible and continue to be maintained. 10/13/05</p> <p>- This is not the most favorable way to remove the sediment but there is little that can be done if this occurred. If it remains, BSC will determine if it is best removed by hand/shovel or if careful use of a vac truck can occur. 10/13/05</p> <p>-Additional silt fence that encompasses all disturbed areas need to be installed as soon as possible. 10/13/05</p>

Areas of Inspection	Observation	Recommended Action
<p>Erosion and Sediment Controls (continued)</p> <p>Rt. 107 Daywork</p>	<ul style="list-style-type: none"> - BSC did note haybales on catch basins along Umpawaug Rd. 10/13/05 - Soil from the active trench work is allowed to be stockpiled at Umpawaug Rd. If the soil is piled any longer than the day or if conditions are rainy. Silt fence or haybales will be needed as a check dam. 10/5-10/13/05 - A storage area just at the Umpawaug Rd./Rt. 107 intersection needs additional silt fence to encompass a stockpile here. 10/13/05 - A vault installation near #134 Umpawaug Rd. had bare soil remaining with a small stockpile. It needs to be confirmed whether restoration has taken place. 10/5-10/13/05 -An area near #124 Rt. 107 was disturbed several weeks ago off a side road or driveway by equipment parking. 9/29-10/13/05 - The area just north of Georgetown Deli has been completely restored and the silt fence reinstalled. 10/13/05 	<ul style="list-style-type: none"> - In general, catch basins should also be cleaned regularly and roadways swept of sediment attributed to the project. Contain all muds and monitor where water is flowing even when catch basins are not the receivers. 10/13/05 -Continue to monitor and provide controls in these conditions. 10/13/05 - Install and maintain additional fence here. 10/13/05 - If not already completed, the area should be stabilized and restored and the soil controlled as it is immediately upgradient from a swale. 10/5-10/13/05 - Either continue restoration measures or install silt fence in the bare soil areas. The area is along a swale/culvert so it is important to stabilize. 10/13/05 - None at this time. If the area revegetates, the silt fence can be removed for good. 10/13/05
<p>Adjacent Wetlands and Waterways</p>	<ul style="list-style-type: none"> -At the jack and bore near Allens Meadow Park, the stream has very high volume due to the rain. The water is still turbid due to the use of the settling basin. When the water recedes, it will have to be determined whether the accumulated sediment has been washed away. 10/13/05 	<ul style="list-style-type: none"> -If the sediment was washed away, this is not the best thing for the stream but nothing can be done at this point. BSC will determine the extent/if any of the remaining accumulated sediment. Hand shoveling is likely the best solution but we will look into a vac truck option. 10/13/05

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Staging, Storage, and Parking Areas	<p>- The silt fence at the equipment storage yard located on property south of the Rt. 7 & 107 intersection is in place. 10/13/05</p> <p>- Additional silt fence is required at the School Rd. HDD area. Some was installed but it does not encompass all of the disturbed soil and stockpiles here. 10/13/05</p>	<p>- Continue to maintain. 10/13/05</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. 10/13/05</p> <p>- Install the additional fence as soon as possible. 10/13/05</p> <p>- Keep storage areas contained as much as possible, avoiding disturbance to vegetation that wasn't already cleared. The areas do not have any clear limit of work boundaries and may benefit from silt fence installation. 9/15-10/13/05</p>
Soils	<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. 10/5-10/13/05</p>	<p>- Soils appear to be handled appropriately. 10/13/05</p> <p>- The DPW may request some of the soil for roadside work if soil tests results are appropriate. 10/5-10/13/05</p>
State species of concern, threatened and endangered species	<p>- No species of concern are located in this area of construction.</p>	<p>- N/A</p>
Vegetative clearing limits (including trees to save or danger trees noted)	<p>- Restoration measures were in place all along the roadway north of Georgetown Deli. 10/13/05</p> <p>- Areas of bare soil were present along Umpawaug Rd. near #134 and #74. 10/13/05</p>	<p>- None at this time. 10/13/05</p> <p>- Attend to the other areas in the appropriate time frames. 10/13/05</p>
Dewatering	<p>- Dewatering that occurs within the trench work along Rt. 107 and Rt. 7 is being directed to a</p>	<p>- It could be determined whether the watershed basin is stressed due to removal of the</p>

Areas of Inspection	Observation	Recommended Action
	frac tank truck. - 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 turbid once again. 10/5-10/13/05	groundwater. -Continue to figure out ways to reduce turbidity and complete work at this area as soon as possible. 10/5-10/13/05
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills and Material Storage	- Two areas of sheen were noted on the stone at the HDD yard. Check the equipment here for any leaks and repair. 10/13/05 - 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. 10/13/05	- The contractors should remain vigilant about securing and handling fuel containers. - Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site. - Check equipment status on a regular basis and keep spill kits on hand. - Report spills immediately, even if they are being controlled.
Additional Observations	- Adjacent work on the roadway has resulted in some observed damage to cable guardrails on Rt. 107. 9/29-10/13/05	

Next likely scheduled inspection:

Wednesday, October 19, 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 for Brian Sakidovitch



345kV (Daywork Rt. 107 and Umpawaug Rd.): The photo on the left shows the restored areas north of Georgetown Deli with silt fence reinstalled. The photo on the right shows erosion controls installed along the work area on Umpawaug Rd. (10/13/05)



345kV (Daywork Umpawaug Rd.): A storage area near the intersection of Umpawaug and Rt. 107 needs additional silt fence to encompass this stockpile. (10/13/05)



345kV (Route 7 Wilton HS Jack and Bore): The photos shows area along the settling basin where the erosion controls were overwhelmed by the increased volumes of water. Upgrades/repairs are needed. 10/13/05



Photo on the left shows the downstream portion of the stream which is somewhat flooded due to the rains. Conditions are still somewhat turbid. Photo on the right shows the jacking pit which has been partially backfilled. (10/13/05)



View of a section of silt fence on the northern/receiving side of the stream which needs repair. (10/13/05)



General view of the receiving pit on the northern side of the stream. (10/13/05)



345kV: (Horizontal Direction Drill) View of the work area with the beginning of the bore activities taking place. (10/13/05)



Erosion controls have been installed but additional fence is necessary to encompass all of the disturbance and the stockpiles. These controls should be installed ASAP. (10/13/05)