

**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:** November 10, 2005

**Inspector:** Brian Sakidovitch

**Location:** 345kV Underground Route

**Storm/**

**Rain Event:** Approximately 0.5- 0.65” of rain fell over 11/9-11/10 as reported by NOAA

| Areas of Inspection  | Observation  | Recommended Action  |
|--|--|---|
| Vault Openings and Trench Construction   | <ul style="list-style-type: none"> <li>- Trenching and pipe installation, continue in several locations along Rt. 7 in Wilton during the night. 10/27-11/10/05 Daywork is ongoing off the roadway edge near Catalpa Rd. 11/10/05</li> <li>- Trenching and pipe installation, continued during the day along Umpawaug Road which is closed to through traffic. 10/5-11/10/05 Work is in the vicinity of house #36.</li> <li>- The Horizontal Direction Drill at School Rd. has resumed. 11/10/05</li> <li>- Vault work appeared to be completed in the Rt. 107/7 intersection island. 11/10/05</li> <li>- The jack and bore operation near the Georgetown Deli is ongoing. 11/2-11/10/05</li> </ul> | <ul style="list-style-type: none"> <li>-Most of the work noted is just off the roadway edge and seems contained for the most part but there are a few issues that require attention.. Continue providing good “house- keeping” along the roadways. 11/10/05</li> <li>-Some issues were noted here See additional sections for more information.</li> <li>-Some issues were noted with containment of drilling muds and erosion controls. See additional sections for more details. 11/10/05</li> <li>- See erosion control section for more details. 11/2/05</li> <li>- This area looks mostly well contained but see additional sections for more details. 11/10/05</li> </ul> |
| Erosion and Sediment (E&S) Controls (includes inspection within 24 hours of a storm event) | <ul style="list-style-type: none"> <li>- Reseeding/restoration was noted in a number of areas and it is scheduled to continue. 11/10/05</li> </ul>   | <ul style="list-style-type: none"> <li>- Continue to restore disturbed areas in the appropriate time frame as per the D&amp;M plan. 11/10/05</li> </ul>   |

| Areas of Inspection   | Observation   | Recommended Action  |
|---|---|---|
| <p>Erosion and Sediment (E&amp;S)Controls (continued)</p> <p><b>Route 7</b></p> | <ul style="list-style-type: none"> <li>- Attempt to control all catch basins as well as outlet points off the road when work is in the vicinity. Some areas were still lacking haybales including the Rt. 107/7 island and the Catalpa Rd. area. 11/10/05</li> <li>- A stockpile at Catalpa Rd. was observed but it did not have E&amp;S controls. 11/10/05</li> <li>-If not already done so, the jack and bore area should be mulched/stabilized as soon as practicable. 11/10/05</li> <li>-It needs to be confirmed whether the sediment accumulation noted in the stream here has been removed. 11/10/05</li> <li>- At the HDD, the low detention area was holding water. Controls beyond the basin could use some maintenance. Several spots had haybales in disrepair and sediment accumulation was noted under the fence in one location. 11/10/05</li> <li>- The portion of the site to the east may still need to be encompassed in more silt fence. Especially as an apparent leak of drilling muds had migrated in this direction. 11/10/05</li> <li>- A pile of mud was noted against the silt fence here and turbid wash water flowing to this point. 11/10/05</li> </ul> | <ul style="list-style-type: none"> <li>- 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. 11/2/05</li> <li>- If the stockpile was to remain for more than the day, it should have controls in place. 11/10/05</li> <li>-Continue restoration efforts along the roadway. 11/10/05</li> <li>-The least impacting way to remove the sediment is likely by hand/shovel. It should be done carefully and with the instream controls in place. 11/10/05</li> <li>-Continuing to repair this outer erosion control lines is important as some sediment is still finding its way out to that point. 10/27-11/10/05</li> <li>- Extend the silt fence to enclose this piece. 10/19-11/10/05</li> <li>-Determine why the muds did not remain enclosed in the frac tank and make sure they remain contained. 11/10/05</li> <li>- Remove the mud that is adjacent to the silt fence and store properly. 11/10/05</li> </ul> |

| Areas of Inspection   | Observation | Recommended Action   |
|---|-------------|--|
| <p>Erosion and Sediment Controls<br/>(continued)</p> <p><b>Rt. 107 Daywork</b></p> <p><b>Umpawaug Rd.</b></p> |             | <p>- None at this time since this is not a result of the project. 11/2-11/10/05</p> <p>- The Norwalk river is immediately down gradient here so controls should be maintained. 11/10/05</p> <p>- Continue to monitor carefully and be proactive in maintenance. 11/10/05</p> <p>- The system is working well and water in the stream remains clear. 11/10/05</p> <p>- Erosion controls should be installed here due to the disturbed soil. 11/2-11/10/05</p> <p>-Turbid water should not be released to the streets with the potential to enter unprotected catch basins. Disturbed soil in this area also provides potential for sedimentation 11/10/05</p> <p>-Install as soon as practicable and place haybale check dams in swales. 11/10/05</p> <p>- The swale needs to be restored/reshaped due to some ruts created by the equipment movement. 11/10/05</p> |

| Areas of Inspection                        | Observation   | Recommended Action   |
|--|---|--|
|  | <p>- A large bare soil sloped area was noted along the shoulder of the roadway near a stream. Erosion controls are well in place but it is still unclear whether this is associated with the 345kV work. 11/2-11/10/05</p>  | <p>- The bare soil could be stabilized as soon as possible if this work is part of the 345kV. 11/2-11/10/05</p>  |
| <p>Adjacent Wetlands and Waterways</p>     | <p>-At the jack and bore near Allens Meadow Park, the stream had some remaining accumulated sediment. It needs to be determined whether this was removed. 11/10/05</p> <p>-The stream at the Georgetown Deli jack and bore remains very clear. 11/10/05</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. 10/27-11/10/05</p> <p>-Continue to be proactive with erosion control maintenance. 11/10/05</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 &amp; 107 intersection is down in some of the areas closest to the road due to landowner activities. 10/27-11/10/05</p> <p>-Additional silt fence is required at the School Rd. HDD area along the eastern side of the disturbed yard, especially as drilling muds and turbid water were noted here. 11/10/05</p> <p>- The racquet club storage yard is very active with a lot of materials. Make sure inlets here are protected. 11/10/05</p> <p>- A small storage area remains at the Umpawaug Rd. Rt. 107 intersection. 11/10/05</p> <p>- The CL&amp;P yard has erosion controls well in place.</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. 11/10/05</p> <p>-Install the additional fence as soon as possible. 10/27-11/10/05</p> <p>- Keep within the limits of the yard and don't encroach into the brush. 10/27-11/10/05</p> <p>- Continue to maintain fence here and restore ruts caused by equipment just down gradient from here. 11/2-11/10/05</p> <p>- None at this time continue to monitor. 11/10/05</p> |

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|--|--|--|
|  | 11/10/05   |  |
| 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>- Small stockpiles were left along the edge of Rt. 7 near Catalpa Rd. 11/10/05</p> <p>- Backfill soils are allowed to be stored along Umpawaug Rd. but only for the day. 10/5-11/10/05</p> | <p>- Soils appear to be handled appropriately. 11/10/05</p> <p>-If the pile is to remain longer than the day, controls should be placed. 11/10/05</p> <p>- If piles are stored longer, silt fence must be installed. 10/5-11/10/05</p> |
| State species of concern, threatened and endangered species                | - No species of concern are located in this area of construction.  | - N/A  |
| Vegetative clearing limits (including trees to save or danger trees noted) | -Restoration has been noted in a number of locations along Rt. 7 and Umpawaug Rd. 11/10/05   | - Attend to disturbed areas in the appropriate time frames. 11/10/05   |
| Dewatering   | <p>-Several frac tanks were set up in the Georgetown Deli parking lot in order to hold the water from the jack and bore pits here. 11/10/05</p> <p>- The system here seems to work well with filtration occurring in the tanks. The water is sent to a riprap pad, through a silt fence and back to the stream .11/10/05</p>   | -None at this time. Continue to monitor for effectiveness. The water in the stream was very clear at the time. 11/10/05  |
| Blasting   | - No blasting is occurring on site at this time.   | - None at this time.   |
| Spills and Material Storage  | - A pile of drilling muds was noticed below the holding tank and against the silt fence at the   | -Determine what is causing the overflow/loss of muds and contain them. Remove the  |

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|-----------------------------|--|--|
|                             | HDD site. Turbid wash water was also noted flowing away from the tank area. 11/10/05   | piles that have formed.<br>11/10/05  |
| 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. Material storage issues were not noted at this inspection. 11/10/05 | <ul style="list-style-type: none"> <li>- The contractors should remain vigilant about securing and handling fuel containers.</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> <li>- Check equipment status on a regular basis and keep spill kits on hand.</li> <li>- Report spills immediately, even if they are being controlled.</li> </ul> |
| Additional Observations     |  |  |

**Next likely scheduled inspection:**

Thursday, November 17, 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 (Umpawaug Rd Daywork): Both photos show catch basins/inlets that did not have haybales or filter fabric to control potential sedimentation. These measures should be installed to help prevent similar issues to last week. 11/10/05**



**Photo on the left shows silt fence on site waiting to be installed. Photo on the right shows a swale where some sediment had accumulated. Controls should also be placed along swales and inlets on the roadway. 11/10/05**



Umpawaug Road: View of the trenching and pipe installation occurring in the vicinity of #36 to a private drive. 11/10/05



345kV (Georgetown Deli jack & bore) Photo on the left shows the dewatering point from the water coming from the pit. Photo on the right shows an overview of the jack and bore site. 11/10/05



**Close up view of the dissipater pad for dewatering discharge. Water is pumped from the settling tanks to the riprap and let back into the stream. 11/10/05**



**Photo on the left shows the downstream portion of the stream with a boom in place and water running clear. Photo on the right shows the silt fence below the pit which should be monitored as it is beginning to need maintenance. 11/10/05**



**345kV (Rt. 7 and CL&P yard): Photo on the left shows where fence is starting to come down at the storage yard again near #848. Photo on the right shows the CL&P yard with erosion controls and a construction entrance. 11/10/05**



**345kV (Rt. 7): Photo on the left shows active trench work/pipe installation near Catalpa Rd off Rt. 7. Control measures were not observed in the catch basins. Photo on the right shows a stockpile present here. If this pile is left longer than the day, erosion controls are needed. 11/10/05**



345kV (School Rd. HDD): Photo on the left shows the frac tank which is supposed to hold all drilling muds but there have apparently been some spills. Photo on the right shows where the muds and washout water are flowing towards the silt fence. 11/10/05



Additional views of the drilling muds and discharge water along the eastern edge of the site. Muds appear to have been deposited here and it needs to be confirmed whether this edge has the recommended extension made to the silt fence. 11/10/05



Both photos show areas along the outer perimeter controls where repairs are necessary. Internal controls are still in place but these provide an additional barrier to sediment. One spot has sediment that filtered under the fence. 11/10/05



Photo of the basin built at the drill site to retain stormwater. Standing water was present at the time of inspection following the rain. 11/10/05