

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: August 4, 2005

Inspector: Diana Walden

Location: 115 kV Underground Route

Storm/

Rain Event: Only a trace of precipitation has been recorded since the last inspection as posted by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction Bethel Educational Park, Bethel	- Trenching and ductwork/ installation continues in the Bethel Educational Park under the existing ROW and the school yard near Bethel Middle. The trench is complete in many locations here. Actual transition structures are not yet under construction. 8/4/05 - A large amount of bare soil remains at both ends of the ROW where the transition structure foundations are. 8/4/05	- Erosion controls in this area require some attention and there are some issues to correct. See erosion control, and wetlands sections for more specific information.8/4/05
Hoyts Hill Transition Structure	- The foundation for the transition structure is installed and the access road is in use. 8/4/05	- See erosion control section and spills and storage for site specific information. 8/4/05
Gallows Hill Road and Rt. 107, Redding	- Ductwork/installation is ongoing near #116 Gallows Hill Road as well as Drummers Lane. Vault work has returned near Longwood Drive. 8/4/05	- Activities seem contained on the roadway for the most part but see erosion control and wetland sections for more specific information.8/4/05

Areas of Inspection	Observation	Recommended Action
Rt. 58, Bethel	<ul style="list-style-type: none"> - Concrete pouring and flowfilling for the trench/conduit installation was occurring along Rt. 58 south of Hoyts Hill Rd. 8/4/05 - Additional crews were trenching and installing conduit south of the Steck nursery. 8/4/05 	<ul style="list-style-type: none"> - Activities are fairly well contained to the roadway but several issues need attention. See the erosion control and additional sections for more information. 8/4/05
Rt. 58, Bethel	<ul style="list-style-type: none"> - A handhole was installed in the vicinity of Sunset Hill Road and a small amount of bank cut and clearing were necessary. 8/4/05 	<ul style="list-style-type: none"> - See erosion control and clearing sections for more information. 8/4/05
Broad Street and Rt. 7 , Norwalk	<ul style="list-style-type: none"> -No active work was observed near Broad St but work is scheduled to being boring operations under the railroad soon. 8/4/05 	<ul style="list-style-type: none"> -Activities are fairly well contained to the roadway however a few repairs should be made. See the erosion control section for more information. 8/4/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - For the most part, silt fence has been well installed in most locations where the work is located adjacent to wetlands and soils are being handled appropriately. Several issues were noted and require attention. 8/4/05 - Some repairs from previous weeks continue to be made as recommended but new areas require attention. 8/4/05 	<ul style="list-style-type: none"> - Several areas require maintenance or additional controls or attention as soon as possible. - Continue to be proactive in maintenance as necessary. See below for site-specific issues. 8/4/05

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<p>Bethel Educational Park</p>	<p>- The silt fence along the ROW and structure foundation near the RT Johnson School is in good shape and a soil stockpile has been left here. 8/4/05</p> <p>- The southern end of the ROW near Bethel Middle School near the foundation still has a large amount of bare soil. The second row of silt fence has to be brought up to the first to encompass an area of disturbance and sediment must be pulled back from the low spot within the shrub area. 8/4/05</p> <p>- Silt fence along the ROW leading to this point is still in need of repair and toeing-in in several locations. It seems that some repairs were made but others are needed. One spot has been torn down due to a trail across the ROW.8/4/05</p>	<p>- Keep the controls in good repair until the ROW is revegetated. Also, avoid piling brush or cleared vegetation in any potential wetland areas. 8/4/05</p> <p>- Complete the fence coverage and restore the area as soon as possible to prevent further sedimentation. 8/4/05</p> <p>- Repair and toe in the fence where needed as soon as possible and be proactive in maintenance. 8/4/05</p>
<p>Bethel Educational Park continued</p>	<p>- The area at the riprap pile where a large amount of water has flowed down the steep grade appears to be more toed in but stormwater flow will remain high here. 8/4/05</p> <p>- The stockpile noted at the ROW edge right near the Middle School has been enclosed in silt fence as recommended. 8/4/05</p> <p>-The concrete washout station is being actively utilized near the RT Johnson school. 8/4/05</p>	<p>- This area will be hard to control due to the volume of flow in this area. An additional check dam placed down-gradient here may help. The area should also be revegetated ASAP to prevent sediment migration. 7/21-8/4/05</p> <p>- Washouts should continue to take place only in designated areas. 8/4/05</p>

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<p>Hoyts Hill Transition Structure (Off Rt. 58)</p>	<ul style="list-style-type: none"> - Silt fence still requires repair/toeing-in at several locations along the access road. 8/4/05 - The materials on the fence have all been pulled back and the area cleaned up but the silt fence near the foundation was still overtopped here in one spot. 8/4/05 - A concrete washout was noted at the edge of the access road. A new concrete washout station was built here likely as a result and has been actively used. 8/4/05 	<ul style="list-style-type: none"> - Maintain silt fence where necessary. 8/4/05 - Remove materials, including any brush and chips from areas beyond the silt fence per the D&M plan. 8/4/05 - Continue to use designated areas only for concrete washouts. Clean up the hardened concrete. 8/4/05
<p>Route 58</p>	<ul style="list-style-type: none"> - Due to recent active work near Steck's, evidence of dried sediment was observed running several hundred feet downgradient. Catch basins and inlets beyond areas of active work should also be considered. 8/4/05 - Efforts have been made to protect some catch basins in areas of active work with fabric or a single haybale. 8/4/05 - An area of bank cut and ground cover clearing was noted as a result of handhole #2 installation near Sunset Hill Rd. 8/4/05 - Mathers (subcontractor) has a storage area off Rt. 58 near Putnam Park with equipment, materials and the frac tank. Some 	<ul style="list-style-type: none"> - In all work areas, contain slurry or mobile sediment to work areas and street sweep the road extent including the gutters, regularly. 8/4/05 - Protect all catch basins and inlets which may be recipients of mobile sediment. A "frame" of haybales (or filter fabric) should be used rather a single bale. 8/4/05 - The area should be temporarily stabilized following the timelines specified in the D&M plan. 8/4/05 - Silt fence should be installed as a limit of work to protect the wetlands. Materials should not be placed beyond the

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<p>Route 58 continued</p>	<p>materials were noted placed on the edge of wetland vegetation near the pond. 8/4/05</p> <p>- Efforts were made to repair the silt fence near the handhole installation #4, but fence was placed improperly. The extra material needs to be towed in upgradient and the stakes should be placed on the downgradient side of the fence. 8/4/05</p> <p>The silt fence here had several areas with gaps underneath or holes and active work is directly adjacent as of 8/4. These areas should be repaired. 7/21-8/4/05</p> <p>- A section of fence also needs to be extended here due to wetlands continuing beyond. 8/4/05</p>	<p>wetland boundary. 8/4/05</p> <p>- The fence should be fixed with stakes downgradient of the fence and the bottom toed in properly. 8/4/05</p> <p>- The silt fence should be toed in ASAP due to wetlands immediately on the other side of the fence. 7/21-8/4/05</p> <p>- The fence should be extended to encompass all wetlands. 8/4/05</p>

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<p>Gallows Hill Road and Rt. 107 (Lonetown Rd)</p>	<ul style="list-style-type: none"> - Active work has returned near #116 Gallows Hill and the pull-off with loose stone and sediment remains. 8/4/05 - Fence near #84 still must be toed in as sediment was noted getting through. 7/28-8/4/05 - The original pull-off storage area had extended silt fence in place as recommended. 8/4/05 - Some evidence of dried sediment tracks was observed along the roadway shoulder. 8/4/05 - The fence near Redding Country Club appeared to be in good shape. 8/4/05 - A small, difficult to see spot under the silt fence at the intersection of Rt. 107 and Gallows Hill should also be toed in. 7/6/05-8/4/05. 	<ul style="list-style-type: none"> -Provide erosion controls until the area is restored. 8/4/05. - The fence should be repaired/toed-in ASAP. 8/4/05 - None at this time. 8/4/05 - Crews in this section should also remain aware of containing mobile slurry or sediment laden water and protecting catch basins and inlets. 8/4/05 -Continue to maintain and repair fence as necessary when active work approaches an area. 8/4/05 - Maintain and toe-in silt fence ASAP as active work has been here. 8/4/05
<p>Broad Street and Rt. 7, Norwalk</p>	<ul style="list-style-type: none"> -Silt fence is in good shape in most locations but a few spots are in some disrepair. Also, debris should be cleaned up from the ROW. 7/14-8/4/05 - Trenching, conduit installation and vault installation is ongoing along Rt. 7 during the night work. Adjacent areas are of commercial development with few wetland resources. 8/4/05 	<ul style="list-style-type: none"> - Maintain and toe-in silt fence as necessary until the ROW stabilizes. 8/4/05 - Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. 8/4/05 - Be sure that catch basins in the vicinity of sawcutting and slurry muds are well protected. 8/4/05
<p>Contaminated Soils</p>	<ul style="list-style-type: none"> - Contaminated soil is being stored and labeled separately from that considered “background polluted”. Contaminated soils are eventually brought off site to an O&G facility in Bridgeport. Water from contaminated soils are sent to frac trucks and tanks. 	<ul style="list-style-type: none"> - All soils appear to be handled appropriately. 8/4/05 - It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable

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	<p>- Occasionally, soils are being stored temporarily at Redding Yard until they are trucked to Bridgeport or the landfill.</p>	<p>RSR levels), as daily cover. 7/14-8/4/05</p>
<p>Adjacent Wetlands and Waterways</p>	<p>- Observable volumes of stormwater run downgrade along the Bethel Ed Park ROW. Wetlands are at the base of slope at the southern end and erosion controls should remain in good condition. 8/4/05</p> <p>-Additional controls were installed at the Redding Yard in an effort to control the concrete washout area. 8/4/05</p> <p>- Materials were cleaned up near the Hoyts Hill transition structure location. 8/4/05</p> <p>- Materials were piled on wetland vegetation at the edge of the pond off Rt. 58 at the storage area. Silt fence needs to be installed as limits of work. 8/4/05</p>	<p>- All silt fence controls here should be repaired and strengthened ASAP. 8/4/05</p> <p>- See storage yard section for more information. 8/4/05</p> <p>- In general, silt fence should be seen and treated as the limits of work and it should not be impacted by workspace in order to protect wetlands beyond. Brush should also not be piled here in accordance with the D&M plan. 8/4/05</p>
<p>Staging, Storage, and Parking Areas</p>	<p>- The original pull-off on the side of Gallows Hill Rd still has extended silt fence in place as recommended. 8/4/05</p> <p>- In Redding Town Yard, soil excavate is only temporarily stored here until it can be trucked for disposal in the O&G facility in Bridgeport or the Redding landfill.</p> <p>- Additional measures were installed to control concrete washouts at the Redding yard. Haybales were placed along the berm and several check dams are at the end of the outlet pipe and have captured sediment and washout here.8/4/05</p> <p>- A storage area for materials, conduit and equipment is in use at the Bethel Educational Park</p>	<p>- None at this time.8/4/05</p> <p>- There are no current issues but if the piles progress beyond the bins, haybales should be placed down-gradient of the pile unless this is in the way of active equipment movement. 8/4/05</p> <p>- The bin should continue to be emptied regularly to prevent escape of the wash water and some additional measures were discussed to further control the area. 8/4/05</p> <p>- None at this time. Continue to monitor several stockpiles along the ROW. 8/4/05</p>

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	<p>near the RTJ School. 7/6-8/4/05</p> <p>- A new storage area was identified off Rt. 58 (for Mathers). The frac tank, machines and some materials were stored here but materials were placed on wetland vegetation. No silt fence was in place. 8/4/05</p>	<p>- Silt fence should be installed for limits of work and materials should be moved back from the wetland edge. 8/4/05</p>
<p>State species of concern, threatened and endangered species</p>	<p>- No species of concern are located in the areas of construction.</p>	<p>- N/A</p>
<p>Vegetative clearing limits (including trees to save or danger trees noted)</p>	<p>-Although significant clearing on the edge of roadways has not been necessary, there are areas where bare soil remains, especially near vaults, handholes and the ROW. Many of these areas are sitting for several weeks without temporary seeding, mulch or stabilization. 7/21-8/4/05</p> <p>-The cleared ROW at Bethel Ed Park should be restored and seeded temporarily where work is complete. Revegetation would reduce sedimentation. 7/21-8/4/05.</p>	<p>- The D&M plan requires that disturbed areas to be left for more than 21-30 days before work returns here should be temporarily stabilized with mulch or seed within 7-14 days. 7/21-8/4/05</p> <p>- The restoration crews should be sent out more frequently to areas which will not be re-disturbed in these time frames 7/21-8/4/05.</p> <p>- This is especially important where high stormwater volume is leaving the ROW near the southern end. 8/4/05</p>
<p>Dewatering</p>	<p>- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21-8/4/05</p> <p>- A frac tank was parked at the storage area off Rt. 58. 8/4/05</p>	<p>- It appears that the storage and disposal solution will continue due to concerns about the background pollutants in soils, even in those not considered contaminated. 7/21-8/4/05</p> <p>It may be important to determine total daily volumes of water removal and evaluate whether this is a stress to the watershed or not a significant impact. 7/21-8/4/05</p>
<p>Blasting</p>	<p>- No blasting is occurring in any areas at this time.</p>	<p>- None at this time.</p>

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Spills and Material Storage	<p>- A new designated concrete washout corral was constructed at the Hoyts Hill transition structure likely after a washout was noted here off the access road. 8/4/05</p> <p>-Leaks were not noted from the machinery during this inspection. A report of any leaks or spills that reach the ground and occur during the week will be provided to BSC from internal project inspectors 6/15-8/4/05</p> <p>- Catch basins, inlets and swales should be protected especially in any area with sawcutting activities. Slurry muds are highly mobile and can reach inlets hundreds of feet away when conditions are right. 7/21-8/4/05</p> <p>- At the storage area on Rt. 58, two pails with an oily residue were left on their sides. They should have been removed and disposed of at the end of the day. 8/4/05</p>	<p>-Continue to make sure concrete washouts are restricted to designated areas. 8/4/05</p> <p>- Equipment and materials should not be stored in wooded areas unless it is designated for storage. 8/4/05</p> <p>- 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.</p> <p>- The contractors should remain vigilant about securing and handling fuel and material containers.</p>
Additional Observations		

Next likely scheduled inspection:

Wednesday, August 10, 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



115 kV (Gallows Hill Rd): View of the trench work up near #116 Gallows Hill. 8/4/05



Photo on the left: View of dried sediment tracking from a recent work area down the slope of the road. Crews on all parts of the job need to be aware of controlling these sediments. Photo on the right shows the recommended silt fence extension has been made near the storage area. 8/4/05



115 kV (Route 58 near Putnam Park): Another parking storage area was noted and is being utilized by Mather (subcontractor). Materials are being stored too close to the wetland with no silt fence in place as a limit of work 8/4/05



115 kV (Route 58 north of Handhole 4): Silt fence along this stretch of active work needs repair or toeing-in in several locations. Silt fence needs to be extended here as the wetland continues beyond. 8/4/05



115 kV (Route 58): Efforts have been made to protect some catch basins but it would be best with either a “frame” of haybales or filter fabric. In the photo on right, dried sediment tracks were heading to an unprotected catch basin north of Steck’s. 8/4/05



115kV (Route 58) A bank cut and clearing were necessary for a handhole installation near Sunset Hill Rd. (photo on left). The foundation for the transition structure at Hoyts Hill Rd. still has downed silt fence adjacent. (photo on right). 8/4/05



115 kV (Route 58, near Hoyts Hill- Transition Pole): A new concrete washout station was constructed here and concrete trucks were actively using it. (photo on left). A concrete washout appeared to have taken place which likely led to the construction of the corral (photo on right). 8/4/05



115kV (Bethel Education Park) View of area near the southern caisson drilling that needs extension of the silt fence. Sediment needs to be pulled back from the fence here. (photo on left) View of active work along the ROW with a portion of silt fence down (photo on right). 8/4/05



View of the work crossing the school yard out in front of Bethel Middle School. 8/4/05



115kV (Redding Town Yard): Attempts have been made to control the concrete washout station. Haybales were placed along the outside of the berm and check dams were placed at the catch basin outlet. 8/4/05