

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 21-22, 2005

Inspector: Diana Walden

Location: 115 kV Underground Route

Storm/

Rain Event: The area received a localized storm of 2.94” on 7/18 based on reports from Danbury and posted by NOAA. Other areas may have received as little as 0.21”.

Areas of Inspection	Observation	Recommended Action
<p>Vault Openings and Trench Construction</p> <p>Bethel Educational Park, Bethel</p>	<p>- Trenching and ductwork/ installation continues in the Bethel Educational Park under the existing ROW. Caisson drilling and installation of transition structures is occurring on both ends of the park grounds. 7/21/05</p> <p>- The structure foundation has been poured in the ROW near the RT Johnson School and the trench and conduit has been installed across the driveway. 7/21/05</p> <p>- A large amount of excavation had occurred at the other end of the grounds to drill the caisson and place the transition structure here. 7/21/05</p>	<p>- Erosion controls in this area require some attention and there are some issues to correct. See erosion control, wetlands, and spills and storage sections for more specific information.7/21/05</p>
<p>Hoyts Hill Transition Structure</p>	<p>- The caisson drilling for the transition structure here is underway and the access road is installed. 7/21/05</p>	<p>- See erosion control section for site specific information. 7/21/05</p>
<p>Gallows Hill Road and Rt. 107 Lonetown Rd, Redding</p>	<p>- Ductwork/installation is ongoing up to #24 Gallows Hill Road as well as the corner of Rt. 107 where it turns from Putnam Park to Lonetown Rd. 7/21/05</p>	<p>- Activities seem contained on the roadway for the most part but a few areas require some attention and repair. See erosion control and wetland sections for more specific information.7/21/05</p>

Areas of Inspection	Observation	Recommended Action
Rt. 58, Bethel	<ul style="list-style-type: none"> - Trenching/conduit installation was occurring across Rt. 58 near Hoyts Hill Rd. 7/21/05 - A vault was being installed in the roadway shoulder near the Steck nursery. 7/21/05 - A completed handhole (#4A and B) installation was noted near #123 Putnam Park Rd. (Rt. 58) 7/21/05 	<ul style="list-style-type: none"> - Activities are fairly well contained to the roadway. See the erosion control section for more information. 7/21/05
Broad Street and Rt. 7 , Norwalk	<ul style="list-style-type: none"> -The ductwork/installation has continued within Broad Street to the Rt. 7 overpass. Two vaults were installed in this general area. 7/14/05 - Work along Rt. 7 has been suspended due to a tractor trailer accident earlier in the week. 7/14/05 	<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. 7/14/05
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 all locations where the work is located adjacent to wetlands and soils are being handled appropriately. A few issues were noted. 7/21/05 - Apparently many repairs were made but a severe thunderstorm brought up to 3 inches of rain in a short amount of time. 7/21/05 	<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. 7/21/05
Bethel Educational Park	<ul style="list-style-type: none"> - The silt fence along the ROW and structure foundation near the RT Johnson School is in fairly good shape despite the rain. A few spots near the foundation should be toed in. 7/21/05 - A large amount of excavated soil for the structure at the end of the ROW near Bethel Middle School has led to a silt fence that is within an inch of being overtopped by sediment and runoff. Attempts had been made to move the fence 	<ul style="list-style-type: none"> - Keep the controls in good repair and pull back boulders or soil which may strain the fence. 7/14/05 -The fence should be repaired ASAP as any more rain will cause sediment to enter the wetlands beyond. Haybales should also be installed in front of the fence as an additional control. 7/21/05

Areas of Inspection	Observation	Recommended Action
<p>Bethel Educational Park continued</p>	<p>back further to accommodate the soil but the rain caused these issues anyway. 7/21/05</p> <p>- Silt fence along the ROW leading to this point is in need of repair and toeing-in in several locations. The most noticeable is behind the riprap pile where a large amount of water has flowed down the steep grade here. 7/21/05</p> <p>- A stockpile was noted at the ROW edge right near the Middle School. It was not within silt fence limits and at the edge of a steep grade. 7/21/05</p> <p>-Several concrete washouts were seen here- one at the ROW edge near the stockpile and the other at the far caisson. 7/21/05</p>	<p>- It appears that some sediment has traveled with the stormwater from the ROW down the grade. This area will be hard to control due to the volume of flow in this area. The fence should be toed in and an additional check dam placed downgradient. The area should also be revegetated ASAP to prevent sediment migration. 7/21/05</p> <p>- Extend silt fence to enclose the pile. 7/21/05</p> <p>- These are the first out of place washouts noted on the project. These should continue to take place only in designated areas. 7/21/05</p>
<p>Hoyts Hill Transition Structure (Off Rt. 58)</p>	<p>- Silt fence requires repair/toeing-in at several locations along the access road. A piece of silt fence was placed appropriately at a stormwater inlet. 7/21/05</p> <p>A small amount of sand/gravel is beyond the fence in several locations along the road.7/21/05</p> <p>- The caisson is being drilled and materials are being stored in the vicinity. Silt fence was also overtopped here in one spot. 7/21/05</p> <p>- The mulch/wood chips were not removed completely from the wetland area off the access road and brush was also observed here. 7/21/05</p>	<p>- Maintain silt fence where necessary. 7/21/05</p> <p>-Either pull sediment back or extend the fence where material is placed beyond. 7/21/05</p> <p>- Maintain silt fence near the drilling. 7/21/05</p> <p>- The D&M plan states that brush and clearing materials should not be placed in wetland areas. The chips and brush should be removed by hand. 7/21/05</p>

Areas of Inspection	Observation	Recommended Action
Route 58	<p>- Bare soil at the vault installation near Steck's is well contained for the most part but due to a slight slope here, a check dam installed here would help prevent sedimentation downgradient. 7/21/05</p> <p>- Bare soil and clearing of vegetation was noted at the handhole installation on either side of the driveway at #123. The silt fence here had several areas with gaps underneath. 7/21/05</p> <p>- The completed vault installation by Jacob's Lane had silt fence well installed at the base of the steep grade. 7/21/05</p>	<p>- Place a silt fence or haybale check dam downgradient from any exposed soil if sedimentation becomes an issue. 7/21/05</p> <p>- The silt fence should be toed in ASAP due to wetlands immediately on the other side of the fence. 7/21/05</p> <p>- Mulch could be placed on the bare soil here to provide further stabilization. 7/21/05</p>
Putnam Park (Rt. 58 and Rt. 107 intersection)	<p>- The silt fence in disrepair at the intersection of Rt. 58 and Rt. 107 belongs to the work at Putnam Park. The trench has not come through this area yet. 7/6-7/21/05.</p>	<p>- None at this time. 7/6-7/21/05</p>
Gallows Hill Road and Rt. 107 (Lonetown Rd)	<p>- One area of fence near #116 Gallows Hill has been pushed over and sediment has ovetopped. Some sediment was noted in the wetland beyond due to run off from the roadway. 7/6-7/21/05</p> <p>- Silt fence repair is needed just up from #42 Gallows Hill Road where a gap under the fence has allowed roadway drainage into the wetland beyond. Small amounts of road sand were noted in the wetland but it is unclear whether the sediment is from the work or road traffic. 7/21/05</p> <p>- The original pull-off storage area has some sedimentation that is occurring along the roadway shoulder. 7/6-7/21/05</p>	<p>- Active work is not located in the vicinity but the pull off with stone piles remains. The soil is not fully stabilized. The sediment beyond the fence is minor and would be more damaging to remove, but the fence should be repaired ASAP. 7/6-7/21/05.</p> <p>- The fence should be repaired/toed-in ASAP. 7/21/05</p> <p>- The original silt fence should be extended to the edge of the road or a check dam should be placed to prevent the sediment from entering a swale here. (See photo) 7/6-7/21/05</p>

Areas of Inspection	Observation	Recommended Action
<p>Gallows Hill and Lonetown Rd. continued</p>	<p>- It appears that repairs were attempted along Rt. 107 but the severe storm may have caused problems to return. Redding Country Club pond still requires spot repairs of the silt fence before active work approaches. 7/21/05</p> <p>- Silt fence was well installed near completed vault #12 near the bank cut. 7/21/05</p> <p>- A small, difficult to see spot under the silt fence at the intersection of Rt. 107 and Gallows Hill should also be toed in where stormwater has flowed through. A pond is located at the base of the grade and sediment may be an issue when active work reaches the area. 7/6-7/21/05</p>	<p>-Active work is coming this way and silt fence should be repaired/toed prior to trench work in this area. 7/21/05</p> <p>- Maintain and toe-in silt fence as necessary as active work approaches. 7/21/05</p>
<p>Broad Street and Rt. 7, Norwalk</p>	<p>-Silt fence is in good shape in most locations with the exception of two spots along the ROW that need to be toed-in. 7/14-7/22/05</p> <p>- A pile of left over materials and debris were left against the silt fence. 7/14-7/22/05</p> <p>- Nightwork was observed with trenching and conduit installation in several locations along Rt. 7. Vault installation just south of Norwalk Junction was also observed. All excavate was being trucked away appropriately and adjacent areas are of commercial development with few wetland resources. 7/22/05</p>	<p>- Maintain and toe-in silt fence as necessary until the ROW stabilizes. 7/22/05</p> <p>- Perform regular “good housekeeping” to remove leftover materials and clean up the workspace. 7/22/05</p> <p>- Be sure that catch basins in the vicinity of sawcutting and slurry muds are well protected. 7/21/05</p>
<p>Contaminated Soils</p>	<p>- 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.</p> <p>- Occasionally, soils are being stored temporarily at Redding</p>	<p>- All soils appear to be handled appropriately. 7/21/05</p> <p>- It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable RSR levels), as daily cover. 7/14-7/21/05</p>

Areas of Inspection	Observation	Recommended Action
	Yard until they are trucked to Bridgeport or the landfill. 7/14-7/21/05	
Adjacent Wetlands and Waterways	<p>- The silt fence at Bethel Ed. Park has the potential to be overtopped near the far caisson/structure. 7/21/05</p> <p>- It appears some sandy bars were deposited in the wetlands and streams down the steep grade near the ROW at the Bethel Ed Park. It is difficult to tell whether this came from the project but it is apparent a lot of water is running from the ROW. 7/21/05</p> <p>- Sediment was noted in wetlands and a stream adjacent to the Redding Yard as a result of wash water to a catch basin. 7/21/05</p> <p>-A small amount of sediment has overtopped the silt fence at #116 Gallows Hill to wetlands beyond and a small amount of roadway sand has entered a wetland under the silt fence near #42. 7/21/05</p> <p>- The mulch/chips and brush noted in the wetlands near the Hoyts Hill transition structure location should be removed by hand. 7/6-7/21/05</p>	<p>- The silt fence repair is needed ASAP with additional controls recommended. 7/21/05</p> <p>-The amount of sand is fairly minor and would be more disruptive to remove at this point due to the grade (and may also be from the stream deposition). However, the controls here should be repaired and strengthened ASAP. 7/21/05</p> <p>- See storage yard section for more information. 7/21/05</p> <p>- Again, the amounts of sediment are fairly minor and it would be more disruptive to remove it, but silt fence should be repaired ASAP. 7/21/05</p> <p>- Mulch and wood chips or fill of any kind should not be placed in wetland areas. Brush should also not be piled here in accordance with the D&M plan. 7/21/05</p>
Staging, Storage, and Parking Areas	<p>- The original pull-off on the side of Gallows Hill Rd still has silt fence in place but sediment has washed to the shoulder of the roadway where the fence does not cover. 7/6-7/21/05</p> <p>- A second Gallows Hill pull-off near the completed vault #15 installation has some stone and loose soil stored here. 6/22-7/21/05</p> <p>- In Redding Town Yard, soil excavate is only temporarily stored here until it can be trucked</p>	<p>- A check dam of fence or haybales should be placed or the silt fence line extended to the roadway here. 7/6-7/21/05</p> <p>- The area should be cleaned up when feasible, especially since sediment overtopped the adjacent roadway silt fence here. 7/6-7/21/05</p> <p>- There are no current issues but if the piles progress beyond the bins, haybales</p>

Areas of Inspection	Observation	Recommended Action
	<p>for disposal in the O&G facility in Bridgeport or the Redding landfill. 7/22/05</p> <p>- Concrete washouts are also taking place within the Redding yard in a specified location but daily amounts of concrete appear to be overwhelming the area once again. Water from the bin was again noted entering a catch basin in the yard. A discharge pipe was located in the woods several feet from wetlands and a stream. It appeared that some sediment had already entered the stream over time. 7/21/05</p> <p>Concrete washouts for Rt. 7 are directed to a corral placed near the Merritt Parkway ramps at an O&G work area. 7/21/05</p> <p>- An equipment storage area for the Putnam Park area materials is located at a pull-off on Route 58 just north of the Rt. 107 intersection. 7/14/05</p> <p>- A storage area for materials, conduit and equipment is in use at the Bethel Educational Park near the RTJ School. 7/6-7/21/05</p>	<p>should be placed down-gradient of the pile unless this is in the way of active equipment movement. 7/21/05</p> <p>- O&G was consulted and they will be extending the berm and placing signage to reduce excessive water use here. They will also install a corral within the woods below the discharge pipe as an accidental overflow area. The bin should be continue to be emptied regularly to prevent escape of the wash water. 7/21/05</p> <p>- None at this time 7/21/05</p> <p>- None at this time 7/21/05</p> <p>- None at this time- well contained. 7/21/05</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>-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. 7/21/05</p> <p>- The completed vault areas (i.e.</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. 7/21/05</p> <p>- The restoration crews should be sent out more frequently to areas which will not be re-disturbed in these time frames</p>

Areas of Inspection	Observation	Recommended Action
	<p>#5 and #12) mentioned last week were placed with additional silt fence but mulch and seed will also help. 7/21/05</p> <p>-The cleared ROW at Bethel Ed Park should be restored and seeded temporarily where work is complete. Revegetation would reduce sedimentation. 7/21/05.</p>	<p>7/21/05.</p> <p>- This is especially important where high stormwater volume is leaving the ROW. 7/21/05</p>
Dewatering	<p>- A large frac tank was set up at Bethel Ed. Park to contain all the water from this site. 7/21/05</p> <p>- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21/05</p> <p>- Active dewatering was also observed directly to a truck at the conduit installation near Hoyts Hill and the vault installation along Rt. 7 during the night work. 7/21-22/05</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. 7/21/05</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. 7/21/05</p>
Blasting	<p>- No blasting is occurring in any areas at this time.</p>	<p>- None at this time.</p>
Spills and Material Storage	<p>- Two areas of concrete washouts were noted on the ROW at the Bethel Ed. Park. One at the edge of the ROW near the Middle School. Some water had apparently washed partially downhill here. The second was near the far caisson/structure installation. 7/21/05</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 6/15-7/21/05</p> <p>- Catch basins should also be protected with fabric especially in</p>	<p>-So far, concrete washouts have been restricted to designated areas. This should be sure to continue. 7/21/05</p> <p>- Equipment and materials should not be stored in wooded areas unless it is designated for storage. 7/21/05</p> <p>- 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</p>

Areas of Inspection	Observation	Recommended Action
	any area with sawcutting activities. Slurry muds are highly mobile and can reach catch basins hundreds of feet away when conditions are right. 7/21/05	kits on hand. Report spills immediately, even if they are being controlled.
Additional Observations		

Next likely scheduled inspection:

Thursday, July 28, 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 Road, Redding): The storage area at Gallows Hill should have additional silt fence placed up to the roadway edge to prevent sedimentation along the shoulder. 7/21/05



115 kV (Rt. 107, Redding): View of the trenching and conduit installation at the corner of Rt. 107 where it turns to Lonetown Rd. 7/21/05



115 kV (Rt. 58, Bethel): Silt fence has been installed at the base of the steep grade by the vault installation. Mulch should be applied. 7/21/05



115 kV (Rt. 58, Bethel): View of recent handhole installation near the Sunoco and station 70+14. Bare soil remains and the silt fence is un-toed in several locations. The fence should be repaired until the area is stable. 7/21/05



115 kV (Rt. 58, Bethel): Ongoing vault installation near Steck's Nurseries. A check dam should be placed down gradient of the work area to prevent sedimentation. 7/21/05



115 kV (Route 58, near Hoyts Hill- Transition Pole): View of the caisson being drilled for placement of the structures and various materials in the work area. 7/21/05



Silt fence along the access road to the transition pole is in need of repair and toeing-in in various locations. The left hand photo shows fence overtopped near the caisson and the right hand picture shows sediment placed beyond the fence. 7/21/05



115kV (Route 58, Bethel near Hoyts Hill) View of trenching and conduit installation across Rt. 58 leading to the transition structure from the transition station. 7/21/05



115kV (Bethel Education Park) Excavation area for the transition structure at the end of the ROW. A large amount of soil is exposed here and sediment has run and almost overtopped the silt fence below. It should be repaired ASAP and reinforced with haybales. 7/21/05



The fence beyond the riprap area has not been toed-in and a steep slope and wetland is located beyond the ROW. A large amount of run-off appears to flow here during storms so the fence should be reinforced. 7/21/05



View of a concrete washout on the left and a soil stockpile on the right. The pile is not located within the silt fence at the edge of the ROW near Bethel Middle School. The concrete should not have been placed here. 7/21/05



View of the frac tank for holding dewatering discharge on the left and a view of the ROW and conduit installation near Bethel Middle School on the right. 7/21/05



View of the conduit installation crossing the drive and into the lawn in front of the RT Johnson school.



115kV (Route 7, Norwalk): View of the trenching and conduit installation during the night work on Rt. 7. 7/22/05



View of excavate from the trench being loaded and trucked away on the left and an ongoing vault installation on the left. Dewatering from the vault was being directed to a frac truck. 7/22/05



115kV (Redding Town Yard). Concrete washout water was escaping past the berm and entering a catch basin in the yard. A discharge pipe was identified in the adjacent woods. 7/21/05



Some fine sedimentation was noticeable in the adjacent stream bed for several feet downstream. 7/21/05