

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 5, 2005

Inspector: Diana Walden

Location: 115 kV Underground Route

Storm/

Rain Event: The area received only traces of precipitation since the last inspection as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Vault Openings and Trench Construction	- Bethel Educational Park: The riser termination structures were installed at both the northern and southern end of the ROW. Excavation for grounding the structures was occurring. Trenching the last section to the structure at the southern end was also occurring. 10/5/05	-See erosion control section for specifics. 10/5/05
Hoyts Hill Transition Structure	-Excavation for grounding the structure foundation was ongoing here. 10/5/05	- See erosion control and spill section for site specific information. 10/5/05
Gallows Hill Road and Rt. 107, Redding	-Restoration continued along Gallows Hill and the roadway and edges are almost completely restored. 10/5/05 - Some trenching was noted along Rt. 107 near Lois Lane. 10/5/05	- Restoration efforts continue to be noted in locations. See erosion control and additional sections for more specific information. 10/5/05

Areas of Inspection	Observation	Recommended Action
<p>Bethel Educational Park</p>	<ul style="list-style-type: none"> - All disturbed areas continue to show very good grass growth including edge areas along the ROW. 9/29-10/5/05 - The gully noted on the northern part of the ROW was repaired but appears to be an issue again. 10/5/05 - All excavation for grounding at the new structures was well contained within silt fence. 10/5/05 - A few spots of silt fence should be repaired near the last piece of trenching and conduit installation ongoing in the southern ROW. 10/5/05 	<ul style="list-style-type: none"> - None at this time. 10/5/05 - Continue to stabilize and repair as needed. 10/5/05 - None at this time. 10/5/05 - Repair and reinforce the silt fence here as a steep grade is present beyond. 10/5/05
<p>Hoyts Hill Riser Termination Structure (Off Rt. 58)</p>	<ul style="list-style-type: none"> - Erosion controls are mostly in good shape here and the excavation for grounding was contained within the silt fence. 10/5/05 - The contractor is in the process of removing the homeowner's wood debris pile. 9/29-10/5/05 	<ul style="list-style-type: none"> - Keep all areas of erosion control maintained. 10/5/05 - The siting council suggested that NU could offer to remove the wood/debris for the owner. 8/25-10/5/05

Areas of Inspection	Observation	Recommended Action
Route 58	<ul style="list-style-type: none"> - Most catch basins near the work areas are being consistently placed with either haybales or fabric and are well protected. 10/5/05 - Good efforts were made to protect catch basins from sawcutting mud near Sunset Hill Rd. but some made it around the haybale check dams to the inlet. 10/5/05 - The restoration measures for the stream cut at Sara's Way are completed and flow was returned to the channel. Pumps and downstream check dams were removed. The flow was very clear and the banks were well restored. 10/5/05 - Areas around Putnam Park were cleaned up very well for a ceremony at the park. Work will return the following day. 10/5/05 - Crews were working to proof vaults and ducts near vault number #5 north of the Sunoco station. 10/5/05 	<ul style="list-style-type: none"> -In general, contain slurry or mobile sediment to work areas and street sweep the road extent including the gutters, regularly and place and maintain controls on all catch basins and inlets. 10/5/05 - Scoop up the accumulated mud that the haybales prevented from getting in and remain aware of potential issues. 10/5/05 - None at this time. Continue to monitor as the stream is able to restore original patterns of pooling and flow. The settling tank will be removed soon. 10/5/0 - Silt fence in this area should be removed after the side of the road is seeded and mulched. 10/5/05
Gallows Hill Road and Rt. 107 (Lonetown Rd)	<ul style="list-style-type: none"> - For the most part, work on Gallows Hill Rd. is complete and all areas have been well restored. 10/5/05 - The original storage area and area near #116 have been restored and grass is growing back. 10/5/05 	<ul style="list-style-type: none"> - Continue to monitor restored areas for final vegetation. 10/5/05.
Rt. 107 (Lonetown Rd) continued.	<ul style="list-style-type: none"> - Work will need to return to the state Rts. to bring them to specified grade. Silt fence should remain and be maintained before work returns. Otherwise silt fence can be pulled and then reinstalled. 9/29-10/5/05 - Active work was noted near Lois Lane. The bank cut area here should be restored when work is complete. 10/5/05 	<ul style="list-style-type: none"> -Maintain controls when work returns to the area. 10/5/05 - None at this time but restore when work is complete. 10/5/05

Areas of Inspection	Observation	Recommended Action
Broad Street and ROW, Norwalk	<ul style="list-style-type: none"> - A soil stockpile from the roadwork is being kept in the ROW but has been partially removed. 10/5/05 - The silt fence is well installed along most of the ROW but the corner at the substation near the bike path where foundations were installed could use some repair. 10/5/05 - A pile of debris apparently excavated during the trenching in the ROW is located just off Broad Street. 9/1-10/5/05 - Bare areas are located along the roadway edges as a result of the work, including a well point across the road. 10/5/05 - The jacking and receiving pits off Broad St. are well contained. 10/5/05 	<ul style="list-style-type: none"> -Maintain silt fence here as needed if any stockpile is to remain. 10/5/05 -Maintain silt fence as needed. 10/5/05 - NU should work with the contractor to determine how to dispose of this. 10/5/05 - Restore areas as feasible and within time limits specified by the D&M plan 10/5/05 - None at this time. 10/5/05
Rt. 7, Norwalk	<ul style="list-style-type: none"> -Nightwork on Rt. 7 continues. Sediment from sawcutting muds was noted dried in the gutters along the road. 10/5/05 - A foundation had been installed at the Norwalk Junction site and a stockpile was placed here. The pile was also shaped into a settling area for dewatering that had taken place. Erosion controls were well installed for the wetlands beyond. 10/5/05 	<ul style="list-style-type: none"> - The vac truck approach is usually a very effective means of handling the muds. Continue to utilize consistently and remove any build up of escaped muds. - Continue to maintain silt fence since wetlands are immediately adjacent. 10/5/05
Contaminated Soils	<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. Occasionally, soils are being stored temporarily at Redding 	<ul style="list-style-type: none"> - All soils appear to be handled appropriately. 10/5/05 - It has been determined that the Redding landfill will use all soils from the roadways in Redding that are considered clean, (based on acceptable RSR levels), as daily cover.

Areas of Inspection	Observation	Recommended Action
	Yard until they are trucked to Bridgeport or the landfill. 10/5/05	
Adjacent Wetlands and Waterways	-The stream cut near Sara's Way off Rt. 58 is well restored with mulch and haybales along the bank. All dams were removed and flow returned to the channel where sand had been placed. Water flow was very clear. 10/5/05	- None at this time, the restoration efforts look to be in good shape. Continue to monitor that the stream is able to reshape its channel and features through natural flow. 10/5/05
Staging, Storage, and Parking Areas	<p>- BSC and contractors met at the concrete storage area for Rt. 7 work near the Merritt Parkway cloverleaf. The controls were in disrepair, with accumulated concrete and with washout entering a nearby inlet on the road. Within the day, controls were repaired and the station was cleared of accumulated concrete. 10/5/05</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>The additional controls installed at the Redding Yard continue to be effective in retaining the concrete washout water. 9/15-10/5/05</p> <p>- At the storage area off Rt. 58 near the Putnam Park entrance, the entire yard was cleaned out for a ceremony at the park that day. 10/5/05</p> <p>- The silt fence at the yard at the intersection of Rt. 58 and Sunset Hill Rd was still holding up well . 10/5/05</p> <p>- Both of the Redding CC storage areas fences remains well in place. 10/5/05</p>	<p>- Although this washout is used for other O&G projects in the area, it still needs to be reinforced and controlled to the same standards as the 115kV since this project uses it. 10/5/05</p> <p>- Continue to monitor and maintain and confirm that a liner was placed within the corral. 10/5/05</p> <p>- None at this time, continue to maintain the controls as needed. 10/5/05</p> <p>-Work will return to the yard so continue to maintain fence, especially near the pond where it was starting to come down . 10/5/05</p> <p>- Continue to maintain fence and treat it as a limit of work. Vehicles should stay within the fenced areas. 10/5/05</p> <p>-None at this time. 10/5/05</p>

Areas of Inspection	Observation	Recommended Action
State species of concern, threatened and endangered species	- No species of concern are located in the areas of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>- Mulching of bare areas is ongoing and should continue and areas should be seeded as necessary, especially the vault areas as they are the largest disturbance. When the areas are mulched and seeded, silt fence can be removed where work will not return. 9/7-10/5/05</p> <p>- Broad Street could use some restoration if work here is complete for the time being. 10/5/05.</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.</p> <p>- Continue to send restoration crews out in time with D&M requirements and seed mulch areas where needed. 10/5/05.</p>
Dewatering	<p>- Almost all dewatering discharge along the route is being directed to frac trucks or tanks due to concerns about the polluted soils. 7/21-10/5/05</p> <p>-Several tanks for dewatering are being stored at the Putnam Park storage area. 9/15-10/5/05</p> <p>- Dewater was necessary for the caisson installation at Norwalk Junction area. It was contained within a settling basin. 10/5/05</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. 7/21-10/5/05</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. 7/21-10/5/05.</p>
Blasting	- No blasting is occurring in any areas at this time.	- None at this time.

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	<p>- A report of any leaks or spills that reach the ground and occur during the week should be provided to BSC from internal project inspectors 6/15-10/5/05</p> <p>- In general catch basins, inlets and swales should continue to consistently be protected especially in any area with sawcutting activities. Efforts have been good at this point. 10/5/05</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> <p>- Equipment and materials should not be stored in wooded areas unless it is designated for storage.</p>
Additional Observations		

Next likely scheduled inspection:

Thursday, October 13, 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



115kV (Broad Street and ROW): The photo on the left shows the corner of silt fence near the foundations and bike path at the substation which should be repaired. The remainder of the fence is in good shape. Photo on the right shows Broad St and the ROW which should be restored when feasible. (10/5/05)



115kV (Route 7): Photos show the concrete washout station used for Rt. 7 night work as well as several other unrelated projects. Controls were down and washout water was reaching a catch basin. Contractors met on the site and made immediate repairs. See photo below. (10/5/05)



View of the concrete washout station following repairs made to the erosion controls and cleaning up excess concrete. (10/5/05)



115kV (Rt 7 and Norwalk Junction). Work has begun in the vicinity of the Norwalk Junction transition station. Photo on the left shows excavate from where a caisson for a riser termination structure was installed. Erosion controls are well in place. Photo on the right shows where trenching for conduit installation is leading in from Rt. 7 (10/5/05)



115kV: Photo on the left: (Gallows Hill Rd.) shows where the storage area has been restored, silt fence removed and the area beginning to show re-growth. Photo on the right: (Rt. 58) shows the Putnam Park area storage yard cleaned out for a ceremony at the park. This yard will return to use. (10/5/05)



115kV: (Rt. 107 and Rt. 58). Photo on the left shows trench work near Lois Lane. Active work is occurring here but the area should be restored when completed. Photo on the right shows a good attempt to protect catch basins from sawcutting mud but some made it around the haybales. 10/5



115kV (Rt. 58): View of the stream restoration near Sara's Way following the open cut. Flow was returned to the channel and the banks and disturbed areas were well restored. (10/5/05)



Photo on the left shows the downstream area well restored with all the check dams removed. The stream flow had very good clarity with no noticeable sedimentation. The photo on the right shows the area upstream of the cut with the dams removed. (10/5/05)



115kV (Hoyts Hill and Bethel Ed. Park): Photo on the left shows excavation for grounding the foundation of the riser termination structure (RTS) across from Hoyts Hill. The photo on the right shows the riser termination structure installed at the northern end of the ROW at Bethel Ed. Excavation for grounding is also ongoing here. (10/5/05)



115kV (Bethel Ed. Park): Photo on the left shows grounding for the installed RTS at the southern end of the ROW and the remaining trenching up to the structure. The photo on the right shows the gully near the northern end of the ROW which continues to washout following repair. 10/5