

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: September 23, 2004

Inspector: Diana Walden

Location: Norwalk Substation Expansion

**Storm/
Rain Event** Due to remnants of Hurricane Ivan, the site received between 3.5-4 inches of rain over 9/17–9/18.

Areas of Inspection	Observation	Recommended Action
Access Roads	<ul style="list-style-type: none"> - Access roads are completely accessible but are muddy following the rain. 9/23/04 -New Canaan Avenue is still free of tracked sediment from the Norwalk site. 9/23/04 	<ul style="list-style-type: none"> - None at this time. Continue to monitor. 9/23/04 - None at this time. Continue to monitor. 9/23/04
Foundation construction	<ul style="list-style-type: none"> - The conduit bank along the channel and retaining wall #3 are largely complete. 9/23/04 - The control building is constructed and the conduit bank has been encased in concrete. The area is being backfilled and the stockpiles have been used. 9/23/04 	<ul style="list-style-type: none"> - Resulting exposed soil has not shown signs of migrating however plastic sheeting or haybales should be used if it becomes necessary. 9/10-9/16/04 - None at this time. 9/16/04
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<ul style="list-style-type: none"> - The silt fence is sufficient in most areas with vegetative cover present in many locations. 9/23/04 - One spot of fence near wall #5 could use reinforcement or repair as it is under strain from sedimentation 9/23/04 	<ul style="list-style-type: none"> - Continue to be proactive in silt fence repair and maintenance.

Areas of Inspection	Observation	Recommended Action
Erosion and Sediment Controls continued	- The erosion at the northernmost portion of the site at the end of the bike path has worsened and is encroaching on the site. 9/23/04	- The area is contained and is not impacting resource areas. It will also be paved in the coming week and this should solve the problem. 9/23/04
	- The topsoil stockpile remains well contained along the retaining wall and portions have been used on site. 9/23/04	- The pile will continue to be used where necessary in areas to be grassed in the future. 6/30-9/23/04
	-Portions of the topsoil and seed that was placed along the banks of the channel was washed away due to high flows from the several inches of rain from the remnants of the hurricane. The timing of the storm was unfortunate as vegetation had not had a chance to establish 9/23/04	- The remaining soil was being raked into the crevices and reseeded. And the biologs remained in place. 9/23/04 - Getting vegetation to establish here is a priority for stability and straw mulch should be placed over the seed. 9/23/04
	-Some areas adjacent to the overflow channel still have fairly sparse vegetative cover. 8/12-9/23/04	-Getting seed and cover to establish here will be important before the growing season is over. 8/26-9/23/04
Inland Wetland and Watercourse encroachment and mitigation	- Most areas have sufficient vegetative cover but a few areas remain sparse. The area adjacent to the channel especially requires stabilization as the rains caused a loss of soil here. 9/23/04	- Continue to monitor silt fence and repair as necessary, especially in the portions closest to the river. 9/23/04
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)	-There should be no need for further clearing for most of the site. Landscaping is planned for along the bike path and native species are to be used. 9/23/04	- The old scour area was not impacted by the floodwaters during this storm. The vegetation had established enough to prevent any erosion here. 9/23/04

Areas of Inspection	Observation	Recommended Action
Dewatering	- Dewatering activities are complete at this time.	-No actions required at this time.
Blasting	- No blasting is occurring on site at this time and it is not anticipated to be necessary.	- None at this time.
Spills	<p>- There were no spills reported during the week.</p> <p>-The pads under the rascal roller should be changed and the machinery should be repaired as it continued to drip on the pads. 9/23/04</p>	<p>- The contractors should remain vigilant about securing and handling fuel containers due to the sensitivity of the area</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.</p> <p>- Report spills to the office immediately, even if they are being controlled.</p>
Additional Observations	- As previously noted, new road work, has been identified on the bridge on Broad Street to the north. 9/23/04	- The work is unrelated to the Norwalk substation but should be noted as it is occurring in the adjacent area and could be a potential off-site sedimentation source. 9/10-9/23/04

Next likely scheduled inspection:

Thursday September 30, 2004

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*

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Date: September 23, 2004

Inspector: Diana Walden

Location: Plumtree Substation Expansion , Bethel

**Storm/
Rain Event** Due to remnants of Hurricane Ivan, the site received between 3.5-4 inches of rain over 9/17-9/18.

Areas of Inspection	Observation	Recommended Action
Access Roads	- No new access roads have been constructed at this time 9/23/04	- None at this time. 9/23/04
Foundation construction	-The GIS slab excavation is ongoing but had experienced set backs due to the rain. 9/23/04 - Soil is being actively hauled off site at this time. Remaining excavate is being combined into stockpiles for backfill and covered. 9/16-9/23/04	- The areas are well contained at this time. The rainwater did not discharge to any areas off site. 9/23/04
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The site contained areas of ponded water following the rains but there were no off site discharges. 9/23/04	- None at this time 9/23/04

Areas of Inspection	Observation	Recommended Action
	<p>- There is no silt fence in place at this time, however most stockpiles are covered in plastic and no sedimentation has occurred. 9/16-9/23/04</p>	<p>-All areas are well-contained and there is no sedimentation near any off site areas. 9/23/04 - Continue to be proactive in plastic placement and maintenance. 9/23/04</p>
<p>Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)</p>	<p>- The stone perimeter berm is well in place and contains the yard. It prevented any turbid water from leaving the site during the storms. A visible line where the ponded water had been was apparent on the berm. 9/23/04</p>	<p>- The berm is working well at this time. Continue to monitor for any trouble spots. 9/23/04</p>
	<p>- The concrete washout station is assembled and in use. 9/23/04</p>	<p>- The main objective is to keep all washout water from storm drains and resource areas. 9/23/04</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>- Wetlands are located around the outskirts of the substation yard. Work is closer to the perimeter fence than before but there is no noted sedimentation to the wetland area. 9/10-9/23/04</p>	<p>- The stone berm around the perimeter of the yard continues to prevent sedimentation and water from leaving the site and getting to the wetland edge, even with the recent high rain levels 9/23/04</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>- No vegetation outside of the substation yard will need to be cleared during the expansion work.</p>	<p>- N/A</p>
<p>Dewatering</p>	<p>- Dewatering activities have continued in order to remove standing water from the excavations. 9/23/04 - The water is being directed to flat, stoned areas within the center of the yard and is being directed away from the stockpiles and excavations. 9/16-9/23/04</p>	<p>- None at this time.</p>

Areas of Inspection	Observation	Recommended Action
Blasting	- No blasting is occurring on site at this time.	- None at this time.
Spills	- There were no spills reported during the week or noted on site during the inspection. There are very few pieces of machinery on site at this time. 9/23/04	<ul style="list-style-type: none"> - The contractors should remain vigilant about securing and handling fuel containers. - 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. - Report spills to the office immediately, even if they are being controlled.
Additional Observations		

Next likely scheduled inspection: Thursday September 30 , 2004

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



Portions of the soil placed on the overflow channel had been washed away during the high flows caused by Hurricane Ivan before vegetation could establish. The remaining soil was raked into place and reseeded 9/23/04



View of the channel with the visible erosion. It is a priority to get vegetation to establish here. Straw mulch should be placed over the seed. 9/23/04



View of a spot near retaining wall where the silt fence could use reinforcement/repair due to strain from sedimentation. 9/23/04



View of the area scoured in the spring which did not erode despite the floodwaters that came over the area. The vegetation was established enough to hold the soil. 9/23/04



The control house is nearing completion and the conduit bank has been encased in concrete. The stockpiles in the area have been backfilled into the trench. 9/23/04



The erosion at the end of the bike path appears to be getting worse and encroaching into the yard. No resource areas are affected and the area will be paved in the coming week. 9/23/04



Plumtree Substation: View of the excavation for the GIS concrete pad. The rain had caused delays and problems within the forms and excavations but did not affect areas outside the yard. 9/23/04



View of the line (lighter color) along the perimeter stone berm where the rain water had reached. The site was muddy but there were no discharges to the adjacent wetlands. 9/23/04