

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: December 2, 2004

Inspector: Diana Walden

Location: Norwalk Substation Expansion

**Storm/
Rain Event** The area had two more significant rain events since the last inspection with
Between 1-1.63” of rain on 11/28 and between 0.83-1.05” of rain on 12/1.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	-The buildup of sediment and wood chips was still noted at the flared inlet near the Route 7 ramp. 11/24-12/02/04 - The ditch along the perimeter fence demonstrated some minor erosion on its slopes and some sediment has collected and run down gradient into the crushed stone at the gate to the yard. 12/02/04	- The sedimentation has not affected any offsite stormwater systems and ended up back within the yard. However, there are plans to build up and stabilize the swale in this area and clear the inlet. 12/02/04
Foundation construction	- Very little earth disturbance is occurring on site. Some civil activities may resume in the coming weeks. 12/02/04	- None at this time. 12/02/04
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The silt fence is scheduled to be removed from the river side of the overflow channel where vegetative cover is sufficient. However, it should remain at the ends of the overflow channel where vegetative has not fully established. 12/02/04	- Continue to be proactive in silt fence repair and maintenance where needed. Fence can be removed from areas with sufficient cover.
	- The spot of fence near wall #5 that previously seemed to require repair remains stable and has not received any further sedimentation. 12/02/04	- The fence does not appear to pose much of a problem and can remain in place as it is. 12/02/04

Areas of Inspection	Observation	Recommended Action
Erosion and Sediment Controls continued	-The overflow channel held a significant flow of floodwaters following the rain event and was working very well as a bypass. The water was free of sediment and the hydroseed appeared to have helped prevent further erosion in this area. 12/02/04.	- The hydroseed appears to have helped provide stabilization to the slopes of the overflow channel and reduce erosion. The channel is also working very well directing floodwaters. 12/02/04
	- The build up of sediment and wood chips at a flared inlet near the Rt 7 ramp remains and is scheduled for maintenance. 12/02/04	- The buildup will be cleared away and silt fence installed. Plans to direct drainage with a swale in this area are being discussed. 12/02/04
	- Some erosive gullies were noted in the slopes of the ditch along the perimeter fence and Rt 7 ramp. The sediment had traveled down-gradient within the ditch and ended up within the substation yard in the crushed stone. 12/02/04	- The sediment did not travel off site or affect any storm water system but the area will be built up into a better swale for directing run off. 12/02/04
Inland Wetland and Watercourse encroachment and mitigation	- The adjacent wetland areas were in flooded conditions as a result of the rain events. The overflow channel was working very well however. 12/02/04	-Silt fence will be removed from areas with sufficient cover. Continue to monitor areas 12/02/04
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)	-Some plantings along the channel were flagged for damage to see how they survive the winter. Evergreen /conifer plantings are in place at the yard's perimeter. 11/18-12/02/04	- The plantings will be evaluated for any permanent damage in the spring and hydroseed was placed as ground cover here. 12/02/04
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.

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	<ul style="list-style-type: none"> - There were no spills reported during the week. - There were no drips observed under the equipment during the inspection. 12/02/04 	<ul style="list-style-type: none"> - The contractors should remain vigilant about securing and handling fuel containers due to the sensitivity of the area - 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. - Report spills to the office immediately, even if they are being controlled.
Additional Observations	<ul style="list-style-type: none"> - As previously noted, new road work, has been identified on the bridge on Broad Street to the north. 9/10-12/02/04 - The island or bank on which the bridge footing was located is mostly bare of vegetation. 	<ul style="list-style-type: none"> - 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. 9/10-12/02/04

Next likely scheduled inspection:

Thursday December 9, 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: December 2, 2004

Inspector: Diana Walden

Location: Plumtree Substation Expansion , Bethel

**Storm/
Rain Event** The area had two more significant rain events since the last inspection with between 1-1.63” of rain on 11/28 and between 0.83-1.05” of rain on 12/1.

Areas of Inspection	Observation	Recommended Action
Access Roads	- No new access roads have been constructed at this time 12/02/04	- None at this time. 12/02/04
Foundation construction	-The major work of placing equipment on the recently constructed slab is ongoing. This involves almost no soil disturbance. 11/04-12/02/04 - Some minor excavation is underway at the edge of the concrete pad for further connections. 12/02/04	- The areas are still well contained at this time. Little future ground disturbance/civil work is proposed. 10/21-12/02/04
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The site did not show any evidence of any runoff or soil migration from the site. Portions of the site remain muddy. This has worsened with the rain and dewatering 12/02/04	- None at this time 12/02/04
	- There is no silt fence in place at this time, however any stockpiles are covered in plastic following the end of each work day. 9/16-12/02/04	-All areas are well-contained and there is no sedimentation near any off site areas. 12/02/04

Areas of Inspection	Observation	Recommended Action
	- The stone perimeter berm is well in place and contains the yard. It effectively prevents any turbid water from leaving the site. 12/02/04	- The berm is working well at this time. Continue to monitor for any trouble spots. 12/02/04
Inland Wetland and Watercourse encroachment and mitigation	- Wetlands are located around the outskirts of the substation yard. Work is fairly close to the perimeter fence but there is no noted sedimentation to the wetland area. 9/10-12/02/04	- 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. 9/23-12/02/04
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)	- No vegetation outside of the substation yard will need to be cleared during the expansion work.	- N/A
Dewatering	- Some minor dewatering has resumed as a result of the minor excavation near the pad and the rains. The end of the discharge hose is fairly close to the perimeter fence and conditions are muddy here. The berm continues to prevent any overflow but this area should be monitored because of the proximity. 12/02/04	- None at this time.
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 few pieces of machinery on site at	- The contractors should remain vigilant about securing and handling fuel containers. - Keep all vehicles maintained

Areas of Inspection	Observation	Recommended Action
	this time. 12/02/04	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 December 9, 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



View of the overflow channel with a significant flow of water following the recent rain event. The hydroseed appears to have helped stabilize the area to some degree. 12/02/04



Floodwaters were flowing well through the channel. The water was free of sediment and the channel was working as expected. 12/02/04



View of the ditch along the Route 7 ramp and perimeter fence. Some erosive gullies had formed as a result of the rains and sediment traveled into the ditch. 12/02/04



The sediment from the ditch did not leave the site and is not affecting any storm water system. It was actually deposited in the crushed stone at the gate to the substation yard. 12/02/04



Plumtree Substation: Work continues on the installation of equipment on the concrete slab as well as a few minor excavations. 12/02/04



Some minor dewatering has become necessary as a result of the recent rains and the excavations. This caused some muddy conditions near the perimeter fence which will be monitored. 12/02/04