

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: March 30, 2005

Inspector: Diana Walden

Location: Norwalk Substation Expansion

Storm/

Rain Event: The area received between 1.82 and 2.05 inches of precipitation, over 3/28/05 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
<p>Access Roads and Adjacent Roadways</p>	<ul style="list-style-type: none"> - Following the rainstorm, portions of the silt fence around the inlet were ripped down due to the volume of water. More on site and off site sediment continues to deposit here. A haybale should be placed here in anticipation of the weekend rain. 3/30/05 - Some silt from the minor erosion had been noticeable within the earthen swale and the area will require revegetation in the growing season. A haybale check dam may help prevent sedimentation until vegetation is established. 3/9-3/30/05 - Emergency DOT work continues on the New Canaan Ave bridge (Route 123) adjacent to the site. Areas of the bike path and bank adjacent to the bridge have been disturbed. 3/30/05 	<ul style="list-style-type: none"> -The silt fence will require repair however with the volume of water received here from the roadway, the weekend rain would likely just rip it again. 3/30/05 -A new haybale should be installed here before the weekend rain to help filter sediment loads. 3/30/05. - The earthen swale and surrounding area is still bare soil and may require additional stabilization in the future. A haybale checkdam could be installed to help alleviate sedimentation. 3/9-3/30/05 - Work is not associated with the project but is mentioned as a potential source of off-site sediment. Any areas disturbed on site will be restored per DOT. 3/30/05

Areas of Inspection	Observation	Recommended Action
Foundation construction	<p>-The siding and structure of the GIS building continues to be under construction. 3/18-3/30/05</p> <p>-Some excavation for new footings continue near retaining wall #3 and the control house with new structure work occurring on the footings. 3/23-3/30/05</p>	<p>- None at this time. 3/30/05</p> <p>- Soil stockpiles are well within the yard and areas are contained, no issues at this time. 3/30/05</p>
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<p>-The overflow channel has a significant amount of water and continues to work well with some minor erosion along the slope. 3/30/05.</p>	<p>- Continue to monitor for overall stabilization. In the spring, the situation should be evaluated as additional seeding may be necessary. 3/30/05</p>
	<p>- The flared inlet near the Rt 7 ramp is receiving obvious stormwater flows from off site roadway and on site sources. It is apparent that much of the sediment is roadway sand and much of the runoff is from the street based on presence of gullies. The silt fence was ripped down as a result of the latest storm. A haybale should be placed here to help filter sediments. 3/30/05</p>	<p>- Continue to monitor until stabilized as the surrounding area is still bare soil. Part of the sedimentation is from offsite street runoff which cannot be controlled by onsite actions. A haybale check dam could also be placed in the earthen swale to slow on-site sedimentation. 3/30/05</p>
	<p>- Some excavation and backfill is finishing up in several areas throughout the site. 3/23-3/30/05</p>	<p>- All stockpiles and excavation areas are well within the site and there are no issues at this time. Appropriate arrangements are being made to begin taking remaining stockpiles to off-site locations 3/23-3/30/05</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>- Silt fence has been removed from most areas along the wetland/river side of the channel as the area is stabilized. 12/16/04</p>	<p>-None at this time. Continue to monitor.</p>
State species of concern, threatened and endangered species	<p>- No species of concern are located in this area of construction.</p>	<p>- N/A</p>

Areas of Inspection	Observation	Recommended Action
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. 11/18/04	- The plantings will be evaluated for any permanent damage in the spring and hydroseed was placed as ground cover here. 11/18/04
Dewatering	- No dewatering was noted at this time. 3/30/05	-None at this time. 3/23/05
Blasting	- No blasting is occurring on site at this time and it is not anticipated to be necessary.	- None at this time.
Spills and Material Storage	<ul style="list-style-type: none"> - Several issues with different pieces of machinery were noted this week during the inspection. 3/30/05 - A caterpillar excavator had a small puddle of hydraulic oil below, A lift for working on the GIS building had either been overfilled with diesel fuel or had a leak and was dripping on the ground and another small hydraulic oil spill was noticed near the roller/soil compacter. 3/30/05 - All three were immediately absorbed with spill pads and booms upon observation and the soil was picked up. 3/30/05 	<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	- As previously stated, the New Canaan Ave Bridge is also under emergency repair by the DOT. Access is needed through the Norwalk site and some disturbance of the bank and bike path area has occurred. 3/30/05	- 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. All disturbance will be repaired by DOT. 3/30/05

Next likely scheduled inspection:

Wednesday, April 6, 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

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Date: March 30, 2005

Inspector: Diana Walden

Location: Plumtree Substation Expansion , Bethel

**Storm/
Rain Event** The area received between 1.82 and 2.05 inches of precipitation, over 3/28/05 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads	- No new access roads have been constructed at this time 3/30/05	- None at this time.
Foundation construction	-The major work of connecting the equipment on the constructed slab to the existing equipment is on-going. 3/23-3/30/05	- The areas are all contained at this time and there is little ongoing work that involves soil disturbance. 3/30/05
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	- The working areas of the site are mostly muddy. The berm along the eastern perimeter fence was extended further as recommended with additional stone placed on the ends of the previous extension. 3/23-3/30/05	- Although the gradient of the site would typically drain water from this area, small isolated spots had pooled but are now contained from running off site. 3/23-3/30/05

Areas of Inspection	Observation	Recommended Action
	<p>- There is no silt fence in place at this time, however the stone perimeter berm is well in place and contains the yard even following the heavier rain event. 3/30/05</p>	<p>-All stockpiles are well-contained and the berm is working well at this time. 3/30/05</p>
	<p>- A majority of the soil has been removed to appropriate off-site locations but some will remain on an as needed basis for the remainder of construction. Portions are not covered in plastic but are well within the site. 3/2-3/30/05</p>	<p>-Continue to monitor status and cover stockpiles with plastic if necessary. 3/2-3/30/05</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>- Wetlands are located around the outskirts of the substation yard. The work within the substation yard has caused no observed sedimentation. 3/30/05</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. 3/30/05</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>- 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>- The only dewatering necessary was to remove rainwater from the complete concrete trench structures around the slab. All water was directed to the traprock as usual. 3/30/05</p>	<p>- None at this time.</p>
<p>Blasting</p>	<p>- No blasting is occurring on site at this time.</p>	<p>- None at this time.</p>
<p>Spills and Material Storage</p>	<p>- No drips or spills were reported for the week or noted during the inspection. 3/30/05</p> <p>- Keep any refueling equipment in the storage shed</p>	<p>- The contractors should remain vigilant about securing and handling fuel containers.</p> <p>- Keep all vehicles maintained well (i.e. no apparent fluid</p>

Areas of Inspection	Observation	Recommended Action
	when it is not in use/ overnight. 3/30/05	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:**

Wednesday, April 6, 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



View of new structures and new footings within the expansion area below retaining wall #3. 3/30/05



The overflow channel had a significant amount of water following the recent rain event and is working well. 3/30/05



Siding and structure work continues on the GIS building. 3/30/05



The inlet near the Route 7 ramp continues to receive on site and off site sediment and the silt fence was torn down by the large volumes of water during the rain. Much of this is sand from the roadway as depicted by the gullies coming from this direction. 3/30/05



Plumtree Substation: View of the yard with the leftover stockpiles. 3/30/05



Although the yard fills with water following larger rain events, the stone berm has been very efficient at preventing run-off to the surrounding wetlands. 3/30/05