

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: January 4, 2006

Inspector: Diana Walden

Location: Transition Stations: Hoyts Hill, Archers Lane, Norwalk Junction

Storm/

Rain Event: Approximately 1.34" of precipitation fell mostly in the form of snow in the north and rain in the south on 1/2-1/3 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<p>- Hoyts Hill: Access is gained off Hoyts Hill Road. Ruts and erosion remain upgradient of the stone placed at the access point under snow cover. 12/1-1/4/06.</p> <p>- This disturbed area receives runoff from Hoyts Hill Road which has caused sediment to accumulate within the stone of the access drive. 12/1-1/4/06.</p> <p>-Archers Lane: Some snow plowing along the access road resulted in a pile over the silt fence. 1/4/06.</p> <p>- Norwalk Junction: Sediment tracking was not noted from the gravel pad of the access drive. A stone inlet area was installed adjacent to the road. 1/4/06.</p>	<p>- Ruts should be smoothed out and additional stone installed along this portion to prevent further erosion and sedimentation. Haybales were installed here but did not seem to have much effect. 12/30-1/4/06.</p> <p>- Wetlands are not immediately adjacent but the snow should be pulled back and the fence righted when feasible. 1/4/06.</p> <p>-Continue to monitor sediment tracking issues and sweep streets if necessary. 1/4/06.</p>
Foundation construction	<p>- The Hoyts Hill station yard has been backfilled and brought to grade. Final grades are not complete along the wetland edge due to future work here. 11/17-1/4/06.</p> <p>- Additional work may be</p>	<p>-None at this time. 1/4/06.</p> <p>-The pads may need to be</p>

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<p>Foundation construction continued</p>	<p>necessary on the outlet/dissipater pads as erosive gullies continue. 12/01-1/4/06.</p> <p>-At Archers Lane, construction of the retaining walls continues. 1/4/06</p> <p>- Earthwork and foundation work continues in the station yard and large soil stockpiles were noted. 1/4/06</p> <p>-At Norwalk Junction, several contractors are working on site. 345kV contractors were installing vaults and 115kV contractors were working on the structure. 1/4/06</p>	<p>extended based on the noted erosion issues. See erosion control section. 12/01-1/4/06.</p> <p>-None at this time. 1/4/06</p> <p>-None at this time. The soil remains contained on site. 1/4/06</p> <p>- See erosion control section for more information. 1/4/06.</p>
<p>Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)</p>	<p>-Hoyts Hill: The majority of the perimeter silt fence remains in good condition and water was seen running clear through the barrier, although a small amount of sedimentation was noted. 1/4/06</p> <p>- The erosive gullies are still present (under the snow cover) on both the northern and southern slopes resulting in sediment deposits along the silt fence. 10/27-1/4/06.</p> <p>-As stated previously, erosion and sedimentation were noted at the access drive and the haybales did not have much effect. 12/30-1/4/06.</p> <p>- Archers Lane: Monitor stormwater run-off velocity off the engineered slope. This area is steep and water used to collect at the base at the silt fence. A small amount of snow/sediment was pushed</p>	<p>- Continue to monitor the area and be proactive in maintenance of the erosion controls, especially in areas with wetland immediately adjacent. 1/4/06</p> <p>- Gullies should be repaired and a stronger method of stabilization, such as erosion control mats, should be considered. 10/27-1/4/06</p> <p>-Investigate whether extension of the outlet stone pad would help the situation and restore the erosion caused here. 10/27-1/4/06</p> <p>- Ruts should be smoothed out and additional stone installed in the disturbed area of the access drive to prevent further erosion and sedimentation. 12/1-1/4/06.</p> <p>- Continue to monitor this area, especially after significant rain events. Snow should be pulled back and fence righted when feasible. 1/4/06.</p>

Areas of Inspection	Observation	Recommended Action
	<p>over the perimeter silt fence along the access road. 1/4/06.</p>	
<p>Erosion and Sediment Controls continued</p>	<p>- Norwalk Junction: This southern portion of the project received mostly rain instead of snow. The majority of the perimeter silt fence still needs attention or toeing in. 12/22-1/4/06.</p> <p>-The cleared/disturbed area noted outside the silt fence adjacent to the river, remain flooded with pooled, turbid water. 12/30-1/4/06</p> <p>- Erosive gullies/soil slumping remain in a number of locations along the drainage swale due to site run-off, resulting in some sedimentation to the swale. The surrounding soil is disturbed. 12/30-1/4/06.</p> <p>-Dewatering associated with 345kv vault excavation also resulted in turbid water in the swale which then discharged into the wetland. This is in addition to any turbidity caused by the site run-off. It is difficult to completely separate out one from the other. 12/30-1/4/06</p>	<p>-Coordinate with other contractors to assure that snow piles will not be placed along the Norwalk River as a result of future plowing. The entire erosion control barrier is still in need of attention. 12/22-1/4/06</p> <p>- This turbidity is likely partially a result of runoff from the site to the swale and partially from ongoing 345kV project related dewatering. 12/30-1/4/06</p> <p>- The erosion control matting on the swale likely needs to be extended up and over the top of slope to prevent further erosion until the growing season. 12/30-1/4/06</p> <p>- Erosion controls should be installed at the inlet and/or outlet culverts to help prevent further sediment from entering the wetland as a result of the surrounding disturbed soil and future dewatering needs on site. Watch for any additional soil migration towards the drainage swale. 12/14-1/4/06</p>
<p>Inland Wetland and Watercourse encroachment and mitigation</p>	<p>- Hoyts Hill: As part of the transition station, a small area of wetland was cleared and altered. The outer silt fence is still up as a work limit. Sediment is accumulating along the fence from the erosion but water continues to run clear through the fence in this area.12/8/05-1/4/06.</p> <p>-Archers Lane: No immediate wetland area concerns were noted. Watch</p>	<p>-Continue to monitor. In general, keep all equipment and materials out of wetlands not to be disturbed and keep controls in good repair. Work is still proposed through here to connect with the underground facilities. 11/10-1/4/06</p> <p>-None at this time. 1/4/06</p>

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	<p>run-off velocity down the completed slopes and walls. 1/4/06</p> <p>- Norwalk Junction: The majority of the perimeter erosion controls along the Norwalk River are in need of repair, partly due to snow plowing issues and partly due to wear. 12/22-1/4/06</p> <p>- Flooding may be an issue during extended periods of rain. 11/23/05- 1/4/06</p> <p>- The outlet of the drainage swale is at the headwall of the wetland area. Turbidity issues were still noted here in the wetlands but have not had a significant impact on the river. 12/30-1/4/06.</p>	<p>- Perimeter controls still need to be maintained through coordination by the 115kv or transition contractors. 12/22-1/4/06</p> <p>- Continue to stay within the permitted work. Ground water is extremely high. 1/4/06</p> <p>-See Erosion Control Section for more details. 12/30-1/4/06</p>
State species of concern, threatened and endangered species	- No species of concern are located in these areas of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p>-Hoyts Hill: The slopes and areas surrounding the site had begun to experience noticeable increase in growth before the cold weather but erosion issues continue and will need attention. 11/17-1/4/06</p> <p>- Archers Lane: No new clearing was noted during this inspection. 1/4/06</p> <p>- Norwalk Junction: The area that had been cleared outside the silt fence (11/23) now has pooled turbid water. 12/30-1/4/06</p>	<p>- It will be difficult to obtain sufficient growth due to the late time of year. An alternative method of stabilization, such as Erosion Control Mats should be considered. 11/02-1/4/06</p> <p>-None at this time. 1/4/06</p> <p>- This area was not restored or enclosed in silt fence but is now partially flooded. 1/4/06</p>
Dewatering	-Dewatering was not necessary at Hoyts Hill but erosion resulting from the outlet pipes and slope run-off continues. 1/4/06	-See erosion control section. 1/4/06

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	<p>- No dewatering has been observed at Archers Lane. 1/4/06</p> <p>- Although dewatering associated with 345kv vault excavation was filtered through many controls including filter bags, fabric lining and haybales, it still resulted in turbid water in the swale which then discharged into the wetland. The water also picked up additional turbidity from site run-off and sediment in the swale. 1/4/06</p> <p>-Frac tanks are on site as a result of the 345kV dewatering. 1/4/06</p>	<p>- None at this time. 1/4/06</p> <p>- Sediment should be cleaned and proper erosion controls installed before dewatering continues. Groundwater here is extremely high and will require dewatering for multiple portions of the project. See erosion control section for recommended actions. 1/4/06</p> <p>- Future dewatering will need at least as many controls as what is currently being used by 345kV contractors. 1/4/06</p>
Blasting	<p>- All blasting is complete at this time. 1/4/06</p>	<p>- None at this time.</p>
Spills and Material Storage	<p>-No spills or leaks were noted during this inspection 1/4/06</p>	<p>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site</p> <p>- Report spills immediately, even if they are being controlled.</p> <p>- Take care not to get carried away and to be vigilant when refueling. Avoid refueling in the areas near the wetlands. Se proper storage for all materials.</p>
Additional Observations		

Next likely scheduled inspection:

Thursday, January 12, 2006

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*



Hoyts Hill Transition Station: Overall view of the yard with snow cover. 1/4/06



Photo on the left shows the gullies still present under the snow cover at the yard. Photo on the right shows the silt fence still in place along the wetland edge. 1/4/06.



Archers Lane: Photo on the left shows some snow piled over the silt fence along the access roads. Wetlands are not immediately adjacent, but attempt to prevent this in general. Photo on the right shows a view along the boulder slope of the access road. 1/4/06.



Photo shows the continuing progress being made on the retaining walls. 1/4/06.



Photo shows the large soil stockpile at Archers Lane. The soil remains well contained to the site. 1/4/06



Norwalk Junction: Overall view of the yard. Various contractors are working on site at this time. 345kV contractors are installing vaults resulting in the use of frac tanks for dewatering. 115kV contractors are working on the structure with scaffolding and shrouding in place. 1/4/06



Both photos show close-ups of some of the erosive gullies still noted along the drainage swale. Soil has slumped from the top of slope over the erosion control matting. The mat will likely need to be extended to stabilize the top of slope as well.
1/4/06



Photo on the left shows the perimeter silt fence which still needs some attention and toeing-in. Photo on the right shows turbid water pooling just beyond the fence. This is partially a result of the dewatering from the 345kV contractors and may be compounded from the sedimentation in the drainage swale. Contractors should work together to remove their contributing factors. 1/4/06