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: February 2, 2006

Inspector: Diana Walden

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

Storm/ Rain Event: Little precipitation has been recorded since the previous inspection with the most significant being between 0.18-0.30" on 1/29 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	- **Hoyts Hill:** Access is gained off Hoyts Hill Road. Increasing ruts and sedimentation are visible once again at the access point in the stone 1/19-2/2/06. -Crews were accessing the site in order to do work on the structures here. 2/2/06. -**Archers Lane**: Conditions were somewhat muddy and water levels have receded even further at the wetland crossings on the access road to the ROW. 2/2/06. - The silt fence along the access in from Diamond Hill Rd is partially down. 2/2/06 - **Norwalk Junction**: Sediment tracking did not appear to be an issue at this time. 2/2/06.	- Ruts should be smoothed out and additional stone installed along this portion to prevent further erosion and sedimentation. 12/30-2/2/06. - Additional haybales were installed and will have to be monitored for effectiveness. 1/26-2/2/06 -Sediment accumulation will have to be addressed. 2/2/06. - The stone wall and natural barriers here appear to keep any sediment from the wetlands along the drive. 2/2/06 -Continue to monitor Rt. 7 at the main access pad. 2/2/06.
Foundation construction	- Materials and structures were in place at **the Hoyts Hill** station yard for future installation. 1/19-2/2/06. - Crews were working at the adjacent pole structures, bringing down wires. 2/2/06	-The station pad itself is in good shape but the adjacent areas need some attention. 1/19-2/2/06.

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Foundation construction continued	- Additional work may be necessary on the outlet/dissipater pads as erosive gullies and sedimentation continue to worsen. 12/01-2/2/06.	-The stone may need to be extended based on the noted erosion issues. See erosion control section. 12/01-2/2/06.
	-At **Archers Lane**, the pad is graded and awaiting structure installation. A construction trailer is in place. 1/26-2/2/06	-None at this time. 2/2/06
	- A stone drain swale is in place along the ledge which infiltrates to a pipe in the stone at the edge of the pad. 1/26-2/2/06	- Controls should be installed in the swale if dewatering is occurring. 1/26-2/2/06
	-At **Norwalk Junction**, drilling and foundation installation was ongoing. Several foundations were in place with plastic covering. Soil was being stockpiled but was too wet to be removed from site at this time. 2/2/06	- See erosion control section for more information. 2/2/06.
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	-**Hoyts Hill**: The majority of the perimeter silt fence remains in good condition but sedimentation has finally overwhelmed the fence in the spot previously noted. Sedimentation was now noted through the fence and in the wetland.1/19-2/2/06	- Repair or install additional controls in the spot which washed through. More importantly- control the source of sedimentation (gullies) 1/19-2/2/06 - Gullies should be repaired and a stronger method of stabilization, such as erosion control mats should be considered. 10/27-2/2/06
	- The erosive gullies are worsening on both the northern and southern slopes resulting in increasing sediment deposits along the silt fence. 10/27-2/2/06. -Less severe erosion was noted along the face of the southern silt fence. 1/26-2/2/06	-Investigate whether extension of the outlet stone pad would help the situation and restore the erosion caused here. 10/27-2/2/06
	- **Archers Lane:** The silt	- The receding water levels have allowed a better view of

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	fence along the access road to the ROW is well in place but	the sediment accumulation in the wetlands.

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Erosion and Sediment Controls continued	sedimentation was resulting in the 1st wetland crossing to varying degrees from a fine layer over the leaf litter to several inches of accumulation. 1/26-2/2/06	- Any easily accessible deposits of sediment will need to be removed. Fine layers of silt can remain. 1/26-2/2/06
	-The drainage pipe from the station directs any water that infiltrates in a stone swale and empties at the silt fence near the 2nd wetland crossing. This has resulted in some sediment deposits as well. 1/26-2/2/06	-Haybales should be placed if dewatering is to occur to the swale. 1/26-2/2/06 - Sediment will need to be carefully removed from this area as well. 1/26-2/2/06
	- **Norwalk Junction**: Haybales remain along the perimeter fence on site as an additional control. The silt fence remained adjacent to the river but needs to be toed-in in some locations. 1/26-2/2/06.	- The haybales appear to be working well, keeping mud and soil from the site from reaching the silt fence. 1/26-2/2/06
	-The cleared/disturbed area noted outside the silt fence adjacent to the river, remain partially flooded with pooled, turbid water. 12/30-2/2/06	This area receives direct runoff from the site through the swale making water quality important. The adjacent site is disturbed resulting in this turbidity. 1/19-2/2/06
	- Erosive gullies/soil slumping remain in a number of locations along a portion of the drainage swale due to site run-off, resulting in further sedimentation to the swale. 12/30-2/2/06. - Trash was picked up from the culvert and in the swale. A haybale was also noted at the inlet. 2/2/06	- 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. 12/30-2/2/06 - Some new grass growth was also noted along the swale but it is not enough to stabilize the area. 2/2/06
	- The front of the site and upper portion of the swale remains very well restored with erosion matting and thick straw mulch. 1/12-2/2/06	- Similar restoration needs to continue in other disturbed areas and along the washouts on the lower swale. This will help reduce run-off and turbidity to the wetland. 1/12-2/2/06
Inland Wetland and	- **Hoyts Hill**: As part of the transition station, a small area	-In general, keep all equipment and materials out

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Watercourse encroachment and mitigation	of wetland was cleared and altered. The outer silt fence is still up as a work limit.12/8/05 -1/26/06. Sedimentation has flushed through the fence at this time in a small area of the wetland beyond. Sedimentation also continues to accumulate in the wetland on the work side of the fence. 1/19-1/26/06 - Clearing has also begun as part of the 345kV XLPE work to connect to the transition station. 1/26/06 -**Archers Lane:** Watch run-off velocity down the completed slopes and walls. Pick up deposited sediment adjacent to and in the wetlands. 1/26/06 - **Norwalk Junction**: Flooding may be an issue during extended periods of rain. 11/23/05- 1/19/06 - The outlet of the drainage swale is at the headwall of the wetland area. Turbidity issues continue to be noted here in the wetlands but have not had a significant impact on the river. 12/30-1/26/06.	of wetlands not to be disturbed. 11/10-1/26/06 - The fence needs repair and additional controls in this spot. Pull back sediment where feasible. Control the sediment at its source- (the gullies). 1/19-1/26/06 - See that report for more details. 1/26/06 -See erosion control section for details on the turbidity issues which appear to be a result of work on site as well as the access road in the ROW 1/19-1/26/06 -Since silt fence has been washed over before, consider reinforcing with wire fence as well. Although haybales are helping to keep the site contained.1/26/06 -See Erosion Control Section for more details. Reduce turbidity by controlling its source- disturbed surfaces on site. 12/30-1/26/06
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)	-**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. 11/17-2/2/06 - Clearing was noted adjacent to the site for the 345kV XLPE portion of the	- 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. 11/02-2/2/06 - Contractors have good erosion controls in place and are aware of the wetland status

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	project.2/2/06 - **Archers Lane:** no additional clearing was noted here. 2/2/06 - **Norwalk Junction**: The area that had been cleared outside the silt fence (11/23) now has pooled turbid water. 12/30-2/2/06	of the area. 2/2/06 -None at this time. 2/2/06 - This area was not restored or enclosed in silt fence but is now partially flooded. 2/2/06
Dewatering	-Dewatering was not necessary yet at Hoyts Hill but erosion resulting from the outlet pipes and slope run-off continues. 2/2/06 - Some dewatering had been necessary at Archers Lane for some of the excavations here although it was not needed at the time of inspection. It may return with the installation of structures. 2/2/06 - Foundation excavation at Norwalk Junction has created the need for some dewatering. The contractors are setting up dewatering pits as they work 1/12-2/2/06	-See erosion control section. 2/2/06 - Water is directed to a stone swale which infiltrates to a drainage pipe under the access road. Further controls will be necessary for turbidity if dewatering returns. 2/2/06 - If future excavation reaches the extent of water encountered by the vaults, dewatering will need at least as many controls as what was used by 345kV contractors. 1/12-2/2/06
Blasting	- All blasting is complete at this time. 2/2/06	- None at this time.

Areas of Inspection	Observation	Recommended Action
Spills and Material Storage	- A small spill of a resinous material was noted in the dirt at Norwalk Junction. It was going to be shoveled up and disposed of. 2/2/06 - Trash was cleaned from the swale as stated last week. 2/2/05 - Extraneous soil was being stockpiled at Norwalk Junction It was supposed to be removed for Clean Harbors, but it was too wet at this time. It remains contained on site. 2/2/06	- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site - Report spills immediately, even if they are being controlled. - 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.
Additional Observations		

Next likely scheduled inspection: Thursday, February 9, 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: Photo on the left shows the sedimentation that has occurred along the southern side of the station pad. Photo on the right shows where sediment has accumulated beyond the silt fence as a result of the northern gully. 2/2/06


Photo on the left shows some work on the structure adjacent to the station pad. Photo on the right is a view looking towards the wetland. Wires were being taken down and removed at the time. 2/2/06.

Archers Lane: Photo on the left shows a view of the station pad. Excavation will begin soon for foundation construction. Photo on the right shows a view of the edge of the pad with grading complete and the stone swale in place 2/2/06.

Photo on the left looks along the edge of the pad at the engineered slope. Photo on the right shows where erosion controls were installed as recommended at the stockpile resulting from the structure foundation adjacent to the pad. 2/2/06.

Both photos show the status at the first wetland crossing, adjcent to the station where sediment has accumulated as a result of run-off. In areas where sediment is inches thick and easily reached, it should be removed carefully from the wetland by hand. 2/2/06.

Photo on the left shows where deposits of sediment can be more easily seen now that the water in this area has dried up. Photo on the right shows sediment accumulation in the 2nd wetland crossing, just past the station. This was resulting from the drainage pipe from the site. 2/2/06

Norwalk Junction: Photo on the left shows an overview of the site. The stockpile in the background is to be removed from the site but the soil is too wet at this time. Photo on the right shows several foundations in place, covered in plastic. 2/2/06

Photo on the left shows the haybale line, still working well to keep sediment on site. Photo on the right shows the silt fence adjacent to the river. Some areas are still not toed in but the haybales appear to keep sit e sediment from reaching this point. 2/2/06

Photo on the left shows the pooled wetland area adjacent to the river and at the end of the swale on site. Water remains turbid indicating a need to stabilize surfaces around the swale. Photo on the right shows a spill of a resinous material which was being shoveled up and disposed of. 2/2/06

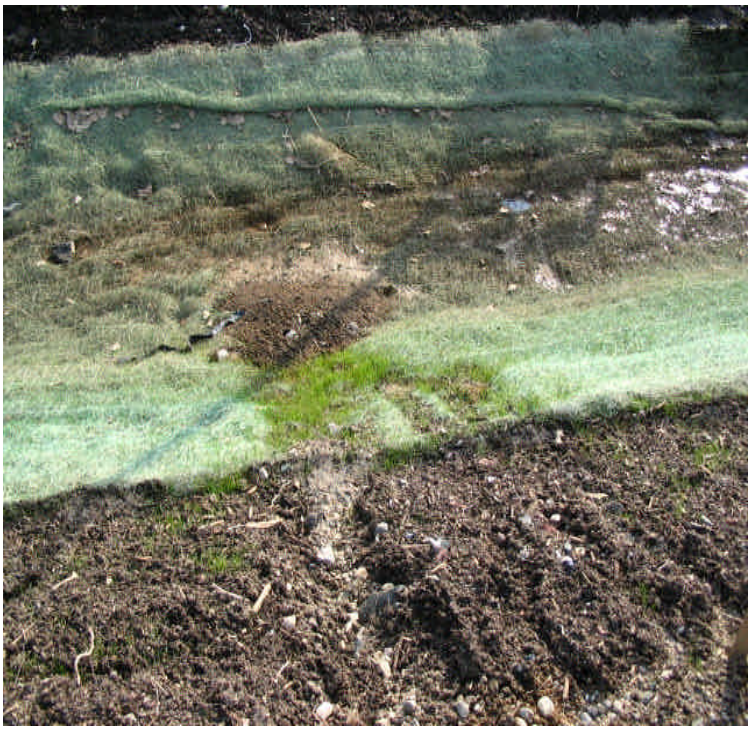

Photo on the left shows an overview of the swale with washouts remaining along the slopes. Surrounding surfaces should be stabilized where possible. Photo on the right shows new grass growth occurring at the swale as a result of the warmer weather. 2/2/06