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 26, 2006

Inspector: Don Ukers

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

Storm/ Rain Event: Approximately 0.79" of mixed precipitation (in the form of snow and rain) fell on 1/23 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. 1/19-1/26/06. - This disturbed area receives runoff from Hoyts Hill Road which has caused sediment to accumulate within the stone of the access drive. 12/1-1/26/06. -**Archers Lane**: Conditions were somewhat frozen and water levels have receded to some degree at the wetland crossings on the access road to the ROW. Silt fence along the access road was repaired. 1/26/06. - **Norwalk Junction**: Conditions were somewhat frozen and sediment tracking did not appear to be an issue at this time. 1/26/06.	- Ruts should be smoothed out and additional stone installed along this portion to prevent further erosion and sedimentation. 12/30-1/26/06. - Additional haybales were installed and will have to be monitored for effectiveness. 1/26/06 -Silt fence was repaired well. Bu sediment accumulation will have to be addressed. 1/26/06. -Continue to monitor Rt. 7 at the main access pad. 1/26/06.
Foundation construction	- Materials and structures were in place at **the Hoyts Hill** station yard for future installation. 1/19-1/26/06.	-The station pad itself is in good shape but the adjacent areas need some attention. 1/19-1/26/06.

Areas of Inspection	Observation	Recommended Action
Foundation construction continued	- Additional work may be necessary on the outlet/dissipater pads as erosive gullies and sedimentation continue to worsen. 12/01-1/26/06. -At **Archers Lane**, the large stone pile was removed and the pad is graded and awaiting structure installation. 1/26/06 - A stone drain swale is in place along the ledge which infiltrates to a pipe in the stone at the edge of the pad. 1/26/06 -At **Norwalk Junction**, drilling and foundation installation was ongoing. Some soil was also being removed from site. 1/26/06	-The stone may need to be extended based on the noted erosion issues. See erosion control section. 12/01-1/26/06. -None at this time. 1/26/06 - Controls should be installed in the swale if dewatering is occurring. 1/26/06 - See erosion control section for more information. 1/26/06.
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.1/19-1/26/06 - The erosive gullies are worsening on both the northern and southern slopes resulting in increasing sediment deposits along the silt fence. 10/27-1/26/06. -Less severe erosion was noted along the face of the southern silt fence. 1/26/06 -As stated previously, erosion and sedimentation were noted at the access drive. Additional hayblaes had been added. 1/26/06. - **Archers Lane:** Run-off	- Repair or install additional controls in the spot which washed through. More importantly- control the source of sedimentation (gullies) 1/26/06 - Gullies should be repaired and a stronger method of stabilization, such as erosion control mats should be considered. 10/27-1/26/06 -Investigate whether extension of the outlet stone pad would help the situation and restore the erosion caused here. 10/27-1/26/06 - Ruts should be smoothed out and additional stone could be installed. Monitor effectiveness of additional haybales. 1/26/06. -Silt fence was repaired along

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	from the transition station across the access road had overwhelmed the silt fence last week but it was well repaired. 1/26/06.	the access road but sediment had accumulated in and adjacent to the wetland and will need to be removed. 1/26/06.

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Erosion and Sediment Controls continued	-Sedimentation was resulting in the wetlands to varying degrees from a fine layer over the leaf litter to several inches of accumulation. 1/26/06	- Any easily accessible deposits of sediment will need to be removed. Fine layers of silt can remain. 1/26/06
	-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 of the turbidity as well. 1/26/06	-Haybales should be placed if dewatering is to occur to the swale. 1/26/06 - The site analysis is still ongoing to look at any potential drainage issues. 1/26/06
	- **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. 1/26/06.	- The haybales appear to be working well, keeping mud and soil from the site from reaching the silt fence. 1/26/06
	-The cleared/disturbed area noted outside the silt fence adjacent to the river, remain flooded with pooled, turbid water. 12/30-1/26/06	This area receives direct runoff from the site through the swale making water quality important. The adjacent site is disturbed resulting in this turbidity. 1/19-1/26/06
	- 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. 12/30-1/26/06. - Trash was also noted at the culvert and in the swale. 1/19-1/26/06	- 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. 12/30-1/26/06 -115kV contractors were scheduled to return to remove the trash. 1/26/06
	- The front of the site and upper portion of the swale remains very well restored with erosion matting and thick straw mulch. 1/12-1/26/06	- 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. 1/12-1/26/06
Inland Wetland and Watercourse encroachment	- **Hoyts Hill**: As part of the transition station, a small area of wetland was cleared and	-In general, keep all equipment and materials out of wetlands not to be

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and mitigation	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.	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. 11/17-1/26/06 **- Archers Lane:** no additional clearing was noted here. 1/26/06	- 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. 11/02-1/26/06 -None at this time. 1/26/06

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	- **Norwalk Junction**: The area that had been cleared outside the silt fence (11/23) now has pooled turbid water. 12/30-1/26/06	- This area was not restored or enclosed in silt fence but is now partially flooded. 1/26/06
Dewatering	-Dewatering was not necessary at Hoyts Hill but erosion resulting from the outlet pipes and slope run-off continues. 1/26/06 - Some dewatering has been necessary at Archers Lane for some of the excavations here. The amount of water was handled by a single sump pump. 1/26/06 - Foundation excavation at Norwalk Junction has created the need for some dewatering. The contractors are setting up dewatering pits as they work 1/12-1/26/06	-See erosion control section. 1/26/06 - Water was directed to a stone swale which infiltrates to a drainage pipe under the access road. 1/26/06 - 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. 1/12-1/26/06
Blasting	- All blasting is complete at this time. 1/26/06	- None at this time.
Spills and Material Storage	-No spills or leaks were noted during this inspection 1/26/06 - Tarps and trash were noted in the swale. 115kV contractors are scheduled to pick up and dispose of the litter. 1/26/05 - Extraneous soil was being removed from Norwalk Junction for Clean Harbors, but some stockpiles remain on site. 1/26/06	- 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 2, 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 for Don Ukers*

Hoyts Hill Transition Station: Photo on the left shows a view of the continuing gully along the slope adjacent to the pad. Photo on the right shows some less severe erosion along the edge of the silt fence. 1/26/06

View of the clearing which has started to take place within the woods adjacent to the station. A majority of the clearing will occur in wetlands. Silt fence will have to be installed prior to soil disturbance. 1/26/06.

Photo on the left shows a view of the access drive and a trailer placed on site for the next portion of construction. Photo on the right shows where run-off from the site collects at the base of the steep slope on the access drive. Turbid water was contained at this time 1/24 and 1/26/06.

Overall view of the site. The large pile of stone/soil has been removed from the site and the pad is ready for foundation construction. 1/26/06.

Photo on the left shows where a previous washout to the silt fence along the access road to the ROW has been repaired. Photo on the right shows where sediment has accumulated within the wetland as a result of run-off from the site. 1/26/06.

Photo on the left shows the stone swale constructed along the edge of the pad. This area drains the site to infiltrate in the stone. Photo on the right shows a wider view of the area. The water infiltrates to a drainage pipe. 1/26/06

Norwalk Junction: Photo shows an overview of the site with construction of structure foundations ongoing. 1/26/06

Photo on the left shows a row of haybales installed along the perimeter fence. It appears this is a good control, keeping sediment on site. Photo on the right shows the swale which is still exhibiting washouts and loose sediment. Trash will be removed shortly. 1/26/06