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 19, 2006

Inspector: Lee Curtis

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

Storm/ Rain Event: Approximately 1.97" of precipitation fell mostly in the form of rain over 1/13-1/14 with another 1.10" on precipitation on 1/18 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. 1/19/06. - This disturbed area receives runoff from Hoyts Hill Road which has caused sediment to accumulate within the stone of the access drive. 12/1-1/19/06. -**Archers Lane**: Conditions were still muddy but recent rains have resulted in some significant flooding at the low wetland crossings on the access road to the ROW. A number of washouts across the road from the site were noted. 1/19/06. - **Norwalk Junction**: A truck exited from the back access gate and created some ruts and sediment tracking. 1/19/06.	- 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. 12/30-1/19/06. -Sediment and washouts occurred as a result of run-off from the transition station. Although the fence is along the overhead access road, contractors should coordinate repair and pull back sediment ASAP. 1/19/06. -This access is almost never used but sweep and remove the sediment as necessary. Continue to monitor Rt. 7 from the main access pad. 1/19/06.
Foundation construction	- Materials and structures were recently delivered to the Hoyts **Hill** station yard for future installation. 1/19/06.	-The station pad itself is in good shape but the adjacent areas need some attention. 1/19/06.

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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. 12/01-1/19/06. -At **Archers Lane**, construction of the retaining walls continues. 1/19/06 - Earthwork and foundation work continues in the station yard and large soil stockpiles were noted. 1/12-1/19/06 -At **Norwalk Junction**, initial sitework for future structure installation was observed. 1/19/06	-The pads may need to be extended based on the noted erosion issues. See erosion control section. 12/01-1/19/06. -None at this time. 1/19/06 -Effort is needed to repair silt fence washed out by run-off from the site following the recent rains. 1/19/06 - See erosion control section for more information. 1/19/06.
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. Additional sedimentation was now noted through the fence and in the wetland.1/19/06 - The erosive gullies are worsening on both the northern and southern slopes resulting in increasing sediment deposits along the silt fence. 10/27-1/19/06. Gullies are once again visible following snow melt. 1/19/06 -As stated previously, erosion and sedimentation were noted at the access drive and the haybales did not have much effect. 12/30-1/19/06. - **Archers Lane:** Run-off from the transition station across the access road has overwhelmed the silt fence in	- Be proactive in maintenance of the erosion controls and install additional controls in the spot which washed through. More importantly- control the source of sedimentation (gullies)1/19/06 - Gullies should be repaired and a stronger method of stabilization, such as erosion control mats, should be considered. 10/27-1/19/06 -Investigate whether extension of the outlet stone pad would help the situation and restore the erosion caused here. 10/27-1/19/06 - Ruts should be smoothed out and additional stone installed in the disturbed area of the access drive to prevent further erosion and sedimentation. 12/1-1/19/06. -Although the silt fence is part of the overhead ROW access road, contractors should cooperate in its repair ASAP

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	several locations and resulted in sedimentation to the wetland. 1/19/06.	due to run-off from the site causing the issues. Sediment needs to be picked up and removed. 1/19/06.
Erosion and Sediment Controls continued	- A pipe draining the site was uncovered. It runs under the access road and has resulted in turbid water getting through the silt fence and to the wetlands. 1/19/06 -Significant flooding over the low wetland crossings in the ROW access road were noted. This led to turbidity to the wetland and potential issues for adjacent landowners. 1/19/06 - **Norwalk Junction**: A new line of haybales was installed along the perimeter fence on site as an additional control. The silt fence remained adjacent to the river. 1/19/06. -The cleared/disturbed area noted outside the silt fence adjacent to the river, remain flooded with pooled, turbid water. 12/30-1/19/06 - 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. 12/30-1/19/06. Trash was also noted at the culvert and in the wetland. 1/19/06 - The front of the site and upper portion of the swale remains very well restored with erosion matting and thick straw mulch. 1/12-1/19/06	- The pipe will be investigated to determine its source. Inlets and outlets will need controls to help reduce turbidity. Any accessible sediment should be picked up. 1/19/06 - A site analysis is planned to determine cause of the issues and whether the station work exacerbated the problem. 1/19/06 - Continue to maintain all controls as necessary. 1/19/06 - This area receives direct runoff from the site through the swale making water quality important. The adjacent site is disturbed resulting in this turbidity. 1/19/06 - 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. 12/30-1/19/06 -Remove all trash and install controls at the culvert. 1/19/06 - 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 from ending up in the wetland. 1/12-1/19/06
	- **Hoyts Hill**: As part of the	-In general, keep all

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Inland Wetland and Watercourse encroachment and mitigation	transition station, a small area of wetland was cleared and altered. The outer silt fence is still up as a work limit.12/8/05 -1/12/06. 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. 1/19/06 **-Archers Lane:** Watch run-off velocity down the completed slopes and walls. The rains resulted in several washout areas along the silt fence on the access road. Sediment was deposited adjacent to the wetlands and standing water here is turbid. 1/19/06 - **Norwalk Junction**: Additional controls have been installed along the site. 1/19/06 - 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. 12/30-1/19/06.	equipment and materials out of wetlands not to be disturbed. Work is still proposed through here to connect with the underground facilities. 11/10-1/19/06 - The fence needs repair and additional controls in this spot. Pull back sediment where feasible. Control the sediment at its source- (the gullies). 1/19/06 -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 1/19/06 -Continue to monitor. 1/19/06 -Since silt fence has been washed over before, consider reinforcing with wire fence as well. 1/12-1/19/06 -See Erosion Control Section for more details. Reduce turbidity by controlling its source- disturbed surfaces on site. 12/30-1/19/06
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	- It will be difficult to obtain sufficient growth due to the late time of year. An alternative method of stabilization, such as Erosion

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	issues continue and will need attention. 11/17-1/19/06 - **Archers Lane:** Some clearing along property adjacent to the access road was noted but it appeared to be a landowner. 1/19/06 - **Norwalk Junction**: The area that had been cleared outside the silt fence (11/23) now has pooled turbid water. 12/30-1/19/06	Control Mats should be considered. 11/02-1/19/06 -None at this time. 1/19/06 - This area was not restored or enclosed in silt fence but is now partially flooded. 1/19/06
Dewatering	-Dewatering was not necessary at Hoyts Hill but erosion resulting from the outlet pipes and slope run-off continues. 1/19/06 - Future dewatering at Norwalk Junction will require significant controls. 1/12-1/19/06	-See erosion control section. 1/19/06 - Groundwater here is extremely high and will require dewatering for multiple portions of the project. Future dewatering will need at least as many controls as what was used by 345kV contractors. 1/12-1/19/06
Blasting	- All blasting is complete at this time. 1/19/06	- None at this time.
Spills and Material Storage	-No spills or leaks were noted during this inspection 1/19/06 - Tarps and trash were noted in the swale and the wetland adjacent to the river. Pick up and dispose of all litter. 1/19/05	- 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, January 26, 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 Lee Curtis*


Hoyts Hill Transition Station: Photo on the left shows the erosive gullies visible now that the snow has melted. Photo on the right shows where run-off has led to some increasing sedimentation beyond the silt fence and in the wetlands. 1/19/06


Photo on the left shows the smaller rills and larger erosive gully down the slope which are visible once again. Photo on the right shows some of the ruts and run-off noted along the access point from Hoyts Hill. Structures and materials have recently been delivered to the station yard for installation. 1/19/06.

Photo on the left shows the sediment pile and boulder wall in place on site. Photo on the left shows a recently discovered pipe which drains under the access road to the ROW. This was located near the base of the stockpile area on the other side of the access drive and resulted in turbid water to the wetland. 1/19/06.

Photo on the left shows the continuing progress on the retaining walls and earthwork. Photo on the right shows one of the low wetland crossings within the ROW with significant flooding. It needs to be determined whether the work on the transition station has resulted in these water issues. 1/19/06

Photo on the left shows one of the spots where sediment from the site and access road has washed over the silt fence adjacent to the wetland. Photo on the right where turbid water associated with the pipe is entering the wetland. Standing water in the wetlands is also turbid with a layer of sediment on the leaves. 1/19/06

Norwalk Junction: Photo on the left looks toward the site with some ponding occurring along the perimeter fence. A line of haybales has been installed along the fence to keep sediment within the site. Photo on the right shows a close-up of the haybale line with the silt fence in place adjacent to the river. 1/19/06

Photo on the left shows where a truck leaving the site created some ruts and resulted in sediment tracking. This entrance is almost never used but sweep up sediment as feasible. Photo on the right is a view of the drainage swale which still needs some attention along this portion. Rills/washouts need repair and trash has collected at the culvert. Turbid water is also present from adjacent site run-off. 1/19/06

Photo on the left shows the upper portion of the swale which has been well restored. Adjacent areas need similar restoration where feasible to reduce turbid run-off from the site. The photo on the right shows the wetland where the swale outlets, resulting in turbid, standing water. Reducing the extent of disturbance on site will help. 1/19/06