



September 15, 2008

Mr. Jay Beaumont  
Acting Chairman  
Town of Montgomery Planning Board  
110 Bracken Road  
Montgomery, New York 12549-2627

Re: *Central Hudson WM Line Rebuild Project*

Dear Mr. Beaumont:

In a letter dated May 16, 2008, the Town of Montgomery Planning Board asked Central Hudson Gas and Electric ("Central Hudson") for certain information regarding the referenced project. These requests, numbering fourteen (14) in all, related to a number of different topics with regard to Central Hudson's right-of-way practices and previous submissions Central Hudson had made to the Planning Board. On July 15, 2008, Central Hudson responded to the Planning Board's May 16 letter, providing answers to certain of the requests for clarification, but did not provide a number of documents requested arguing in that letter that such documents were not relevant to applications before the Planning Board.

As you know, the subject of this response came up during the August 11 work session with the Planning Board. Since that time, Central Hudson has had an opportunity to reevaluate its responses to determine whether it might supplement its response of July 15, 2008. Based on that reevaluation, we provide the following responses.

With respect to Items 1-4 and 6, please find see Attachment 1 containing our PSC reports for the past four years (2004-2007). These reports contain all available information related to the questions in each of those items. Please note that the danger tree program (Item #3) is part of our aerial inspection, ground patrol and general inspection programs outlined in the LRVMP, and is an on-going process. The PSC reports have annual summaries. Hot spot (Item #6) work is tracked as required. Although the PSC order does not require reporting the annual report contains some limited information on hot spot trimming for the year.

With respect to Item 5, please refer to the WM Line Planning Study in Attachment 2 for available data on non-vegetation related outages.

With respect to Items 7 and 8 in the Planning Board's May 16 letter, a list of public outreach meetings Central Hudson representatives attended or participated in, is attached to this letter as Attachment 3. However, as noted in our July 15 letter, given the nature of an open house, specific comments or minutes were not recorded at these events and therefore we cannot provide all of the information you are requesting in Item 8 because such documents do not exist. Unless written comments were provided we do not have specific notes from individual commenters from discussions at the open house since they

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were most likely made while reviewing maps or drawings of the proposed project. Similarly, during the time leading up to the open house sessions (and prior to submittal of the application) there typically were not specific notes assembled from the numerous discussions with municipal officials and individual landowners.

With respect to Item 9, please refer to the LRVMP (which was provided in a prior submission) for a list of all of our 69kV lines with generalized ROW dimensions. However, the level of detail requested is not readily available and would be difficult to provide because ROW widths vary and the edge reclamation program is on-going.

Previous responses, including the July 15 letter have provided complete and thorough answers to Items 10 and 11.

With regard to Item 12 please see the WM Planning Study in Attachment 2.

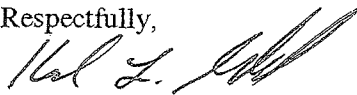
Attachment 4 contains engineering data and specifications in response to Item 13.

With regard to Item 14, please refer to Sections 3.5 and 3.6 (pp. 15-39) of the Alternate Route Analysis wherein the criteria are thoroughly described for each factor.

We hope that this supplemental response is satisfactory to the Planning Board as Central Hudson wishes to move forward with the Planning Board's consideration of its application, which we are hopeful results in a negative determination of significance (i.e., negative declaration) under SEQRA. We look forward to meeting with members of the Planning Board in a workshop on September 18 and at its regularly scheduled meeting on September 29, 2008.

Thank you.

Respectfully,



Karl Schoeberl  
Director, Environmental Affairs

cc: Kevin M. Bernstein, Esq.  
Richard Hoyt, Esq.

Attachment 1



March 28, 2008

Honorable Jaclyn A. Brillling  
Secretary  
State of New York  
Department of Public Service  
Three Empire Plaza  
Albany, New York 12223

Dear Ms. Brillling,

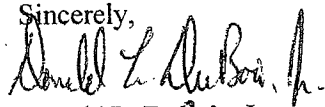
Re: 2007 Electric Transmission Vegetation Management Report  
Central Hudson Gas & Electric Corporation

Enclosed is our 2007 Electric Transmission Vegetation Management Report. The report includes the following information:

1. Herbicide Usage Report for 2007
2. Quantity and Cost of Work Completed by Technique (Completion Year: 2007)
3. 2007 Danger Tree Removal Program Summary Report
4. Electric Transmission ROW Management Program for 2007 (Status of Work Planned)
5. Electric Transmission ROW Management Program Proposed for 2008
6. 2007 Transmission "Vegetation Caused Outage" Report – 69 kV and above

Also enclosed are two letters, one which updates the status of the buffer zone work completed to date as well as the plan for completion of the remaining buffer zone tree removal work, and the second letter provides an update on the status of securing additional rights or ROW widths in order to maintain industry standards for adequate vegetation management for the bulk transmission system as well as the plan for the next highest priority lines to be addressed.

Should you require further information concerning this filing, please contact me at 845-486-5844

Sincerely,  
  
Donald L. DuBois, Jr.  
Manager of System Construction

Copy to: Dave Morrell, NYSDPS  
Charles Freni, Senior Vice President of Customer Services  
Records Retention

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CENTRAL HUDSON ELECTRIC TRANSMISSION  
HERBICIDE USAGE REPORT FOR 2007

| METHOD    | MIX   | ACRES TREATED | MIXED GALLONS | MIXED GAL./AC. | CONCENTRATE GALLONS | CONCENTRATE GAL./ACRE |
|-----------|---|---------------|---------------|----------------|---------------------|-----------------------|
| L.V.F.    | KRENITE - 5 GAL.<br>ARSENAL - 32 OZ.<br>ESCOURT - 3 OZ.<br>WATER - 94.75 GAL<br>TOTAL - 100 GAL | 1089 ac.      | 5400          | 5              | 284                 | 0.26                  |
| L.V.F.    | ACCORD - 4 GAL.<br>ARSENAL - 48 OZ.<br>WATER - 95.7 GAL.<br>TOTAL - 100 GAL.                    | 100           | 200           | 2              | 8.6                 | 0.86                  |
| Cut Treat | GARLON 4 - 1 GAL.<br>STALKER - 5 OZ.<br>MINERAL OIL - 3 GAL.                                    | 622           | 23.4          | 0.38           | 7.8                 | 0.0125                |
| Cut Treat | ACCORD - 50%<br>WATER - 50%   | 0             | 0             | 0              | 0                   | 0                     |

CENTRAL HUDSON GAS & ELECTRIC CORPORATION  
 2007 ELECTRIC TRANSMISSION RIGHT OF WAY MANAGEMENT PROGRAM  
 QUANTITY AND COST OF WORK COMPLETED BY TECHNIQUE

| TREATMENT METHOD                                       | WORK COMPLETED | TOTAL COST  | AVERAGE COST    |
|--|----------------|-------------|-----------------|
| <b><u>ROUTINE RIGHT OF WAY MAINTENANCE PROGRAM</u></b> |                |             |                 |
| side trim  | 17.5 miles     | \$108,190   | \$6182.28/MILE  |
| no-work  | 0 acres        | \$0         | \$0.00/ACRE     |
| cut, stump treat                                       | 481            | \$153,064   | \$318.22/ACRE   |
| cut, chip, stump treat                                 | 141 acres      | \$132,500   | \$939.72/ACRE   |
| backpack low volume foliar                             | 1189           | \$278,099   | \$233.89/ACRE   |
| hydraulic low volume foliar                            |                |             |                 |
| hydraulic high volume foliar                           |                |             |                 |
| radiarc,   |                |             |                 |
| mow  | 0 acres        | \$0         | \$0/ACRE        |
| mow, cut stubble                                       |                |             |                 |
| <b>ROUTINE PROGRAM SUMMARY</b>                         |                |             |                 |
| total routine program                                  | 1811 acres     | \$563,663   | \$311.24/ACRE   |
| total side trim  | 17.5 miles     | \$108,190   | \$6,182.28/Mile |
| Total Routine Expenditures:                            |                | \$671,853   |                 |
| <b><u>EDGE ENCROACHMENT RECLAMATION</u></b>            |                |             |                 |
| edge reclamation                                       | 61.15 miles    | \$632,113   | \$10337.08/Mile |
| <b><u>DANGER TREE REMOVAL PROGRAM</u></b>              |                |             |                 |
| danger tree  | 116 trees      | \$44,568    | \$384.21/Tree   |
| <b><u>HOT SPOT TRIMMING PROGRAM</u></b>                |                |             |                 |
| hot spot   | 60 miles       | \$69,905    | \$1165.08/Mile  |
| Total 2007 Program Expenditures:                       |                | \$1,418,439 |                 |

**2007 Danger Tree Removal Program Summary Report**

| <b>Line Designation</b> | <b>From Structure</b> | <b>To Structure</b> | <b>Number of<br/>Trees Removed</b> |
|-------------------------|-----------------------|---------------------|------------------------------------|
| HG                      | 27582                 | 27917               | 70                                 |
| 303                     | 111653                | 111650              | 10                                 |
| SC                      | 79203                 | 63277               | 20                                 |
| NF                      | 55597                 | 59518               | 10                                 |
| FO                      | 71815                 | 71859               | 6                                  |
|                         |                       |                     | Total: 116 Trees                   |

**Total 2007 Expenditures: \$44,567.78**  
**Average Cost: \$384.21/Tree**

# Central Hudson Transmission ROW Management Program for 2007

| District | Line Designation | From          | To             | Voltage | Acres Treated     | Status   |
|----------|------------------|---------------|----------------|---------|-------------------|----------|
| Kingston | 301              | Hurley Avenue | Leeds          | 345     | 394               | Complete |
| Newburgh | 303              | Roseton       | Hurley         | 345     | 336               | Complete |
| Newburgh | 311              | Roseton       | Rock Tavern    | 345     | 350               | Complete |
| Newburgh | SJ/SD            | Sugarloaf     | New Jersey     | 115     | 127               | Complete |
| Newburgh | CW               | East Walden   | Coldenham      | 115     | 76                | Complete |
| Newburgh | D                | East Walden   | Rock Tavern    | 115     | 120               | Complete |
| Newburgh | DW               | Chadwick Lake | Danskammer     | 115     | 180               | Complete |
| Newburgh | DW               | Chadwick Lake | East Walden    | 115     | See DW Danskammer | Complete |
| Newburgh | DW               | Chadwick Lake | West Balnville | 115     | 47                | Complete |
| Newburgh | J                | East Walden   | Rock Tavern    | 115     | See D Line        | Complete |
| Newburgh | SL               | Rock Tavern   | Sugar Loaf     | 115     | 181               | Complete |

Total Acres Included in the 2007 Program: 3208

Total Anticipated Treatable Acres: 1800

Total Actual Treated Acres: 1811

## Central Hudson Transmission ROW Management Program Proposed for 2008

| Line Designation | From                 | To                   | Voltage |
|------------------|----------------------|----------------------|---------|
| SC               | Sand Dock            | North Chelsea        | 115     |
| NF               | Fishkill Plains      | North Chelsea        | 115     |
| M                | Manchester           | Pleasant Valley      | 115     |
| MC               | Manchester           | Knapps Corners       | 115     |
| KB & KC          | Sand Dock - Barnegat | Knapps Corners       | 115     |
| FO               | N Chelsea            | Forgebrook           | 115     |
| FP               | Fishkill Plains      | Sylvan Lake (A Spur) | 115     |
| FS               | Wiccopee             | Shenandoah           | 115     |
| HF               | Fishkill Plains      | East Fishkill        | 115     |
| EF               | East Fishkill        | Shenandoah           | 115     |
| DC               | North Chelsea        | Danskammer           | 115     |
| FT               | Forgebrook           | Tioronda             | 115     |
| A                | Fishkill Plains      | Todd Hill            | 115     |
| AC               | Danskammer           | North Chelsea        | 115     |
| C                | Pleasant Line        | Todd Hill            | 115     |
| WF               | Forgebrook           | Merritt Park         | 115     |
| WP               | Merritt Park         | Wiccopee             | 115     |
| X                | Van Wagner           | Pleasant Valley      | 115     |
| X                | Reynolds Hill        | Inwood               | 115     |
| X                | Inwood               | Van Wagner           | 115     |
| TG               | N Chelsea            | Chelsea              | 69      |
| TR               | NY Trap Rock         | Knapps Corners       | 69      |
| TV               | Myers Corners        | Wappingers           | 69      |
| TV               | Wappingers           | Chelsea              | 69      |
| KM               | Knapps Corners       | Myers Corners        | 69      |
| G                | Knapps Corners       | LaGrangeville        | 69      |
| G                | LaGrangeville        | Tinkertown           | 69      |
| G                | Tap                  | Fishkill Plains      | 69      |
| G                | Tinkertown           | Pleasant Valley      | 69      |

**Total Acres included in the 2008 Program: 1498.5**  
**Total Anticipated Treatable Acres: 1498.5**

**CENTRAL HUDSON GAS & ELECTRIC CORPORATION**  
 2007 Transmission "Vegetation Caused Outage" Report - 69kV and above

| Date  | Time  | Line Designation | Voltage Class, KV | Structure Number | Tree Location | Height      | Condition   | Distance From Conductor to base | Slope      | Weather Conditions<br>Temp (F) Wind (mph) |
|---|-------|------------------|-------------------|------------------|---------------|-------------|-------------|---------------------------------|------------|---|
| 4/10/2007   | 2040  | HG               | 69                | 27911            | Out of ROW    | 50'         | Good        | 40'                             | Flat       | 30 20+                                    |
| Comment: A tree brushed the line on pole 27911 at Phillips Road, resulting in a broken insulator - repairs were completed. No customers were interrupted.   |       |                  |                   |                  |               |             |             |                                 |            |   |
| 4/13/2007   | 1614  | OB               | 69                | Tower #187       | Out of ROW    | 50'         | Fair        | Unavailable                     | 45 Degrees | 45 25                                     |
| Comment: A leader broke from a Norway Maple rooted on slope above ROW and fell across all 3 phases of the N line on common (N & OB line) tower #187 located between the Boulevard Substation and Dewitt Mills Road. Momentary interruption.   |       |                  |                   |                  |               |             |             |                                 |            |   |
| 4/13/2007   | 1614  | N                | 69                | Tower #187       | Out of ROW    | 50'         | Fair        | Unavailable                     | 5 Degrees  | 45 25                                     |
| Comment: See comment above, no interruption.  |       |                  |                   |                  |               |             |             |                                 |            |   |
| 4/18/2007   | 1315  | P                | 69                | 180755           | Out of ROW    | Unavailable | Unavailable | 200'                            | 20 Degrees | 45 15                                     |
| Comment: 200 foot long mud slide caused approximately 20 trees to slide into the P Line conductor. A 1 hour, 29 minute and 39 second interruption occurred.   |       |                  |                   |                  |               |             |             |                                 |            |   |
| 5/15/2007   | 1056  | HG               | 69                | Unavailable      | Edge of ROW   | 60'         | Poor        | 45'                             | Flat       | 70 15+                                    |
| Comment: Central Hudson contract tree trimming crew while in process of transmission ROW reclamation cut tree that was decayed in center causing it to fall into the HG line bringing down one phase wire in the vicinity of Culter Road, Honk Falls. No interruptions.   |       |                  |                   |                  |               |             |             |                                 |            |   |
| 8/17/2007   | 22:28 | G                | 69                | 33634            | Edge of ROW   | 45'         | Fair        | 15'                             | Flat       | 65 35+                                    |
| Comment: A silver maple tree split off approximately 20' above the ground. Coming in contact and pulling down conductors. The tree was located on the edge of the ROW 2 sections west of Top O Hill Road. The tree is approximately 50' tall with a dbh of 14". This particular section of line is schedule for edge reclamation during the winter of 2008. A 14 minute, 42 second interruption occurred. |       |                  |                   |                  |               |             |             |                                 |            |   |
| 10/23/2007  | 15:00 | H                | 69                | 377              | Off ROW       | 65'         | Good        | 50'                             | 30 Degrees | 72 30+                                    |
| Comment: Large Red Oak tree up-rooted approximately 10' outside ROW edge and came down across two phase wires at John Shultz Road and West Camp Road, Saugerties, NY. A 36 second interruption to Lehigh Cement and St. Lawrence Cement occurred.   |       |                  |                   |                  |               |             |             |                                 |            |   |



March 27, 2008

Hon. Jaclyn A. Brillling  
Secretary  
New York State Public Service Commission  
Three Empire State Plaza  
Albany, New York 12223-1350

Re: Case 04-E-0822

Dear Secretary Brillling:

The original and two copies of a plan were filed with the Commission on October 13, 2005, in accordance with the "Order Requiring Enhanced Transmission Right-of-Way Management Practices by Electric Utilities" for the evaluation of vegetative buffers on Electric Transmission Right of Ways. A "Plan" was not submitted regarding the bulk and other critical transmission facilities as the road crossing vegetative buffers on these lines were all removed as part of the edge encroachment reclamation work completed in 2004. The status of the buffer zone work completed to date as well as the plan for completion of the remaining buffer zone tree removal work on Central Hudson's entire electric transmission system is provided below:

Beginning in 2004, Central Hudson revised the Routine ROW Maintenance Program to include removal of all tall growing, incompatible vegetation from all buffer zones up to the limits of the easements and/or special permitting requirements. The buffer zones on

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the bulk transmission system were also all addressed in 2004. To date, Central Hudson has already completed the removal of all tall growing, incompatible vegetation from the buffer zones on over 85% of the electric transmission system (including the bulk transmission system).

The Transmission Line Foreman conducts a detailed inventory and develops a work plan each year for those electric transmission Right of Ways scheduled for routine maintenance or edge reclamation work the following year. The inventory of the lines scheduled for maintenance in 2008 is currently underway and will be completed prior to starting the 2008 ROW maintenance cycle. In areas where ROW restrictions may limit our ability to accomplish the required buffer zone work, the Central Hudson Special Services Division is notified so that these buffer zone restrictions can be addressed prior to the work being scheduled for completion.

Central Hudson intends to continue performing the buffer zone tree removal work as part of the routine ROW maintenance program and will be 100% complete by the end of 2009. Should you require any further information feel free to contact me at (845-486-5988).

Respectfully submitted,

*Michael Gallucci*

Michael J. Gallucci  
Director of Line Clearance

cc: Mr. David S. Morrell  
State of New York Public Service Commission  
Three Empire Plaza  
Albany, New York 12223 -1350



March 27, 2008

Hon. Jaclyn A. Brillling  
Secretary  
New York State Public Service Commission  
Three Empire State Plaza  
Albany, New York 12223-1350

Re: Case 04-E-0822

Dear Secretary Brillling:

The original and two copies of a plan were filed with the Commission on September 29, 2005, in accordance with the "Order Requiring Enhanced Transmission Right-of-Way Management Practices by Electric Utilities" regarding securing rights or ROW widths in order to maintain industry standards for adequate vegetation management for the bulk and other critical transmission facilities. A similar plan was filed for the remainder of the transmission system on October 31, 2005.

Central Hudson's bulk transmission system consists of three (3) 345 kV lines that have a typical right of way width of 150 feet, which provides 75 feet from the pole line to the right of

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way edge. In response to the Federal Energy Regulatory Commission's Order issued April 19, 2004 Central Hudson also included the SD & SJ as 115 kV critical tie line facilities and the FV Line as a critical 69 kV tie line facility. Central Hudson recognizes and encounters situations within its routine maintenance activities where easement language, public constraints and regulatory limitations prohibit clearing the right of way to these widths.

The first step in developing a plan for securing additional rights or ROW widths is to conduct a comprehensive review of the bulk transmission system to determine the number and location of any deficiencies in existing ROW width. A list of locations was developed where the right of way width is less than the typical 150 feet for the 345 kV lines or less than 100 feet for 115 kV or 69 kV critical tie line interconnection facilities by reviewing the plan and profile maps for each line.

Central Hudson owns between 80% and 95% of the ROW's for each of the 345 kV Lines with the remaining 5% to 20% being ROW by easement. There are only a few areas where the ROW width is less than optimal on these lines. For the 115 kV SD & SJ Lines and 69 kV FV Line the Right of Ways are 100% by easement with no restrictions to maintaining the full width of 100 feet.

The analysis indicated that the following locations on the bulk transmission system warranted further evaluation of the potential for obtaining additional ROW width: 303 line adjacent

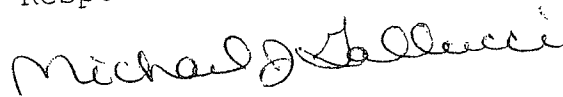
to the NYS Thruway for a length of 5,500 feet where the ROW width on the west side is 65 feet less than optimal, and along the New York, New Haven, & Hartford Rail Road for a length of 3,055 feet where the ROW width is 25 feet less than optimal. 311 line for a length of 4,454 feet where the existing ROW is 25 feet less than optimal on the north side and a second location for a length of 1,692 feet where the existing ROW is 5 feet less than optimal on the north side.

Since the bulk transmission is the highest priority, Central Hudson's Special Services Division has concentrated on the four restrictions noted above on the 345 kV lines to determine if acquiring additional rights or ROW width at these locations is feasible. As indicated above, these restrictions were noted based on a review of the Plan and Profile drawings. In 2006, Special Services performed a more thorough review of the easements and property records associated with these four restrictions and meetings were held with the ten (10) of the affected landowners. To date, Central Hudson has performed land surveys of the additional ROW widths, and is currently seeking qualified contractors to perform property value assessments in order to facilitate making offers for their acquisition. After completing the work associated with the bulk transmission system, Special Services will begin the same process on the next highest priority lines (radial 115 kV lines).

To ensure that transmission reliability on the bulk transmission system is not impacted by these ROW width restrictions during the negotiation process, a comprehensive ground inspection of the bulk transmission system will continue to be performed on an annual basis. The list of exceptions will be utilized for tracking and monitoring the locations with less than optimal ROW width from a vegetation management perspective as well as conducting the annual field assessments to ensure that adequate clearances will be maintained until the next scheduled maintenance cycle.

Should you require any further information feel free to contact me at (845-486-5988).

Respectfully submitted,



Michael J. Gallucci  
Director of Line Clearance

cc: Mr. David S. Morrell  
State of New York Public Service Commission  
Three Empire Plaza  
Albany, New York 12223 -1350



March 28, 2007

Honorable Jaclyn A. Brillig  
Secretary  
State of New York  
Department of Public Service  
Three Empire Plaza  
Albany, New York 12223

Dear Ms. Brillig,


Re: 2006 Electric Transmission Vegetation Management Report  
Central Hudson Gas & Electric Corporation

Enclosed is our 2006 Electric Transmission Vegetation Management Report. The report includes the following information:

1. Herbicide Usage Report for 2006
2. Quantity and Cost of Work Completed by Technique (Completion Year: 2006)
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Should you require further information concerning this filing, please contact me at 845-486-5844.

Sincerely,  
  
Donald L. DuBois, Jr.  
Manager of System Construction

Copy to: Dave Morrell, NYSDPS  
Charles Freni, Senior Vice President of Customer Services  
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HERBICIDE USAGE REPORT FOR 2006

| METHOD    | MIX   | ACRES TREATED | MIXED GALLONS | MIXED GAL./AC. | CONCENTRATE GALLONS | CONCENTRATE GAL./ACRE |
|-----------|---|---------------|---------------|----------------|---------------------|-----------------------|
| L.V.F.    | KRENITE - 5 GAL.<br>ARSENAL - 32 OZ.<br>ESCOURT - 3 OZ.<br>WATER - 94.75 GAL<br>TOTAL - 100 GAL | 1360 ac.      | 5250          | 3.8            | 523                 | 0.38                  |
| L.V.F.    | ACCORD - 4 GAL.<br>ARSENAL - 48 OZ.<br>WATER - 95.7 GAL.<br>TOTAL - 100 GAL.                    | 0             | 0             | 0              | 0                   | 0                     |
| Cut Treat | GARLON 4 - 1 GAL.<br>STALKER - 5 OZ.<br>MINERAL OIL - 3 GAL.                                    | 150           | 75            | 0.5            | 25                  | 0.16                  |
| Cut Treat | ACCORD - 50%<br>WATER - 50%   | 200           | 40            | 0.2            | 20                  | 0.1                   |

CENTRAL HUDSON GAS & ELECTRIC CORPORATION  
 2006 ELECTRIC TRANSMISSION RIGHT OF WAY MANAGEMENT PROGRAM  
 QUANTITY AND COST OF WORK COMPLETED BY TECHNIQUE

| TREATMENT METHOD                                       | WORK COMPLETED | TOTAL COST  | AVERAGE COST     |
|--|----------------|-------------|------------------|
| <b><u>ROUTINE RIGHT OF WAY MAINTENANCE PROGRAM</u></b> |                |             |                  |
| side trim  | 51.2 miles     | \$249,019   | \$4863.65/Mile   |
| no-work  | 0 acres        | \$0         | \$0.00/ACRE      |
| cut, stump treat                                       | 298 acres      | \$122,884   | \$412.36/ACRE    |
| cut, chip, stump treat                                 | 57 acres       | \$126,313   | \$2216.02/ACRE   |
| backpack low volume foliar                             | 1,360 acres    | \$311,263   | \$228.87/ACRE    |
| hydraulic low volume foliar                            |                |             |                  |
| hydraulic high volume foliar                           |                |             |                  |
| radiarc  |                |             |                  |
| mow  | 244 acres      | \$85,554    | \$350.63/ACRE    |
| mow, cut stubble                                       |                |             |                  |
| <b>ROUTINE PROGRAM SUMMARY</b>                         |                |             |                  |
| total routine program                                  | 1,959 acres    | \$646,014   | \$329.77/ACRE    |
| total side trim  | 51.2 miles     | \$249,019   | \$4,863.65/Mile  |
| Total Routine Expenditures:                            |                | \$895,033   |                  |
| <b><u>EDGE ENCROACHMENT RECLAMATION</u></b>            |                |             |                  |
| edge reclamation                                       | 91.2 miles     | \$746,496   | \$8185.26/Mile   |
| <b><u>DANGER TREE REMOVAL PROGRAM</u></b>              |                |             |                  |
| danger tree  | 195 trees      | \$58,290    | \$298.92/Tree    |
| <b><u>HOT SPOT TRIMMING PROGRAM</u></b>                |                |             |                  |
| hot spot   | 2 miles        | \$25,381    | \$12,690.50/Mile |
| Total 2006 Program Expenditures:                       |                | \$1,725,200 |                  |

## 2006 Danger Tree Removal Program Summary Report

| Line Designation | From Structure | To Structure | Number of Trees Removed |
|------------------|----------------|--------------|-------------------------|
| HK               | 107146         | 107143       | 30                      |
| GM               | 40048          | 119162       | 25                      |
| WH               | 53832          | 53824        | 35                      |
| AC-DC            | 59529          | 59520        | 10                      |
| 311              | 111042         | 111050       | 30                      |
| 311              | 111067         | 111072       | 20                      |
| 311              | 111083         | 111078       | 15                      |
| 311              | 111117         | 111132       | 30                      |
|                  |                |              | Total: 195 Trees        |

**Total 2006 Expenditures: \$58,290**  
**Average Cost: \$298.92/Tree**

## Central Hudson Electric Transmission ROW Management Program for 2006

| Line Designation | From            | To               | Voltage | Status   |
|------------------|-----------------|------------------|---------|----------|
| PX Line          | Ohioville       | Modena           | 115     | Complete |
| T Line           | North Catskill  | Athens - Tap     | 115     | Complete |
| V Line           | North Catskill  | NiMo - Tap       | 115     | Complete |
| LR Line          | Lincoln Park    | East Kingston    | 115     | Complete |
| LR Line          | East Kingston   | Rhinebeck        | 115     | Complete |
| GM Line          | Greenfield      | Clinton Avenue   | 69      | Complete |
| GM Line          | Tap-Honk Falls  |                  | 69      | Complete |
| WH Line          | Woodbourne Tap  |                  | 69      | Complete |
| WH1&2            | Ellenville Tap  |                  | 69      | Complete |
| WH1&2            | Honk Falls      | Woodbourne       | 69      | Complete |
| HG Line          | Grahamsville    | Neversink        | 69      | Complete |
| HG Line          | Honk Falls      | NYBWS            | 69      | Complete |
| HG Line          | NYBWS           | Grahamsville     | 69      | Complete |
| SR Line          | Saugerties      | Woodstock        | 69      | Complete |
| CF Line          | South Cairo     | Freehold         | 69      | Complete |
| FW Line          | Freehold        | Westerlo         | 69      | Complete |
| CN Line          | Coxsackie       | New Baltimore    | 69      | Complete |
| NC Line          | North Catskill  | Coxsackie        | 69      | Complete |
| E Line           | Standfordville  | Smithfield       | 69      | Complete |
| E Line           | Pleasant Valley | Hibernia         | 69      | Complete |
| E Line           | Hibernia        | Stanfordville    | 69      | Complete |
| FV Line          | Smithfield      | Conn. State Line | 69      | Complete |

**Total Acres included in the 2006 Program: 1585**

**Total Anticipated Treatable Acres: 1426**

**Total Actual Treated Acres: 1959**

# Central Hudson Transmission ROW Management Program Proposed for 2007

| Line Designation | From          | To             | Voltage |
|------------------|---------------|----------------|---------|
| 301              | Hurley Avenue | Leeds          | 345     |
| 303              | Roseton       | Hurley         | 345     |
| 311              | Roseton       | Rock Tavern    | 345     |
| SJ/SD            | Sugarloaf     | New Jersey     | 115     |
| CW               | East Walden   | Coldenham      | 115     |
| D                | East Walden   | Rock Tavern    | 115     |
| DW               | Chadwick Lake | Danskammer     | 115     |
| DW               | Chadwick Lake | East Walden    | 115     |
| DW               | Chadwick Lake | West Balmville | 115     |
| J                | East Walden   | Rock Tavern    | 115     |
| SL               | Rock Tavern   | Sugar Loaf     | 115     |

**Total Acres Included in the 2007 Program: 3208**

**Total Anticipated Treatable Acres: 1800**

**CENTRAL HUDSON GAS & ELECTRIC CORPORATION**  
**2006 Transmission "Vegetation Caused Outage" Report - 69kV and above**

| Date  | Time | Line Designation | Voltage Class kV | Structure Number | Tree Location | Height       | Condition    | Distance From Conductor to base | Weather Conditions |          |            |
|---|------|------------------|------------------|------------------|---------------|--------------|--------------|---------------------------------|--------------------|----------|------------|
|   |      |                  |                  |                  |               |              |              |                                 | Slope              | Temp (F) | Wind (mph) |
| 1/15/2006   | 0205 | NF               | 115              | 55585 & 55586    | Inside ROW    | 30'          | Good         | 25'                             | Flat               | 28       | 29         |
| Comment: Tree on the line - Heavy wind storm. White pine up-rooted behind 51 Alpert Drive, removed all adjacent trees. No customers were interrupted.             |      |                  |                  |                  |               |              |              |                                 |                    |          |            |
| 1/15/2006   | 0338 | GE               | 69               | 183576           | Out of ROW    | 60'          | Fair         | 48'                             | 30 Degrees         | 27       | 21         |
| Comment: Tree on the line - Heavy wind storm. Oak tree off of ROW passed through the line, no damage to line. 52 second interruption to the Millerton Substation. |      |                  |                  |                  |               |              |              |                                 |                    |          |            |
| 1/18/2006   | 0625 | TR               | 69               | 33542            | Out of ROW    | 65'          | Good         | 45'                             | 30 Degrees         | 55       | 13         |
| Comment: Tree on the line - Wind storm, locust tree up-rooted outside of ROW. One customer (Tilcon) was interrupted.  |      |                  |                  |                  |               |              |              |                                 |                    |          |            |
| 2/17/2006   | 1154 | TR               | 69               | 33523            | Out of ROW    | 70'          | Fair         | 40'                             | 45 Degrees         | 53       | 30         |
| Comment: Locust tree brushed the line, leader split - Wind storm. One customer (Tilcon) was interrupted. Edge encroachment reclamation has been completed.        |      |                  |                  |                  |               |              |              |                                 |                    |          |            |
| 4/12/2006   | 1223 | OB               | 69               | OB 168           | Out of ROW    | Unavail-able | Unavail-able | Unavail-able                    | Unavail-able       | 69       | 11         |
| Comment: Large tree outside of the ROW fell into the line and cleared itself. 22 second interruption to the Dashville circuit 345.                                |      |                  |                  |                  |               |              |              |                                 |                    |          |            |
| 6/3/2006  | 0417 | GE               | 69               | 81641            | Out of ROW    | Unavail-able | Unavail-able | Unavail-able                    | Unavail-able       | 61       | 6          |
| Comment: Tree on the line. 1 minute 18 second interruption to Millerton Substation.   |      |                  |                  |                  |               |              |              |                                 |                    |          |            |

|  |      |    |    |                   |            |     |      |     |            |    |    |
|--|------|----|----|-------------------|------------|-----|------|-----|------------|----|----|
| 6/27/2006  | 1422 | P  | 69 | 106670            | Out of ROW | 50' | Fair | 45' | 40 Degrees | 80 | 14 |
| Comment: Top of cherry tree broke and brushed the line. Momentary interruption to the Rosendale Substation.  |      |    |    |                   |            |     |      |     |            |    |    |
| 7/4/2006   | 1614 | OB | 69 | OB 153            | Out of ROW | 70' | Good | 60' | 45 Degrees | 77 | 7  |
| Comment: A 70' poplar tree from outside of the ROW fell over and off an embankment and onto the line. No customers were interrupted.   |      |    |    |                   |            |     |      |     |            |    |    |
| 9/2/2006   | 1639 | GE | 69 | 81631             | Out of ROW | 50' | Fair | 45' | Flat       | 64 | 14 |
| Comment: Hickory tree on the line - stormy conditions, a momentary interruption to the Millerton Substation.   |      |    |    |                   |            |     |      |     |            |    |    |
| 12/1/2006  | 1811 | HK | 69 | 176476            | Out of ROW | 65' | Good | 40' | Flat       | 70 | 23 |
| Comment: Tree took 1 phase wire down - Heavy wind storm. Poplar tree off of ROW hit the line. 1 hour 17 minute interruption to the Accord Substation.  |      |    |    |                   |            |     |      |     |            |    |    |
| 12/1/2006  | 1816 | P  | 69 | 178142&<br>178141 | Out of ROW | 70' | Good | 40' | Flat       | 70 | 23 |
| Comment: White pine tree on line - Heavy wind storm. Tree off of ROW hit the line. 10 hour 8 minute interruption to circuits 3021, 3022, & 3024. A 10 hour 31 minute interruption to circuit 3023. |      |    |    |                   |            |     |      |     |            |    |    |



March 28, 2007

Hon. Jaclyn A. Brillling  
Secretary  
New York State Public Service Commission  
Three Empire State Plaza  
Albany, New York 12223-1350

Re: Case 04-E-0822

Dear Secretary Brillling:

The original and two copies of a plan were filed with the Commission on October 13, 2005, in accordance with the "Order Requiring Enhanced Transmission Right-of-Way Management Practices by Electric Utilities" for the evaluation of vegetative buffers on Electric Transmission Right of Ways. A "Plan" was not submitted regarding the bulk and other critical transmission facilities as the road crossing vegetative buffers on these lines were all removed as part of the edge encroachment reclamation work completed in 2004. The status of the buffer zone work completed to date as well as the plan for completion of the remaining buffer zone tree removal work on Central Hudson's entire electric transmission system is provided below:

Beginning in 2004, Central Hudson revised the Routine ROW Maintenance Program to include removal of all tall growing, incompatible vegetation from all buffer zones up to the limits of the easements and/or special permitting requirements. The buffer zones on

284 South Avenue  
Poughkeepsie NY 12601

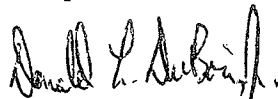
(845) 452 • 2000  
www.CHEnergyGroup.com

the bulk transmission system were also all addressed in 2004. To date, Central Hudson has already completed the removal of all tall growing, incompatible vegetation from the buffer zones on over 70% of the electric transmission system (including the bulk transmission system).

The Transmission Line Foreman conducts a detailed inventory and develops a work plan each year for those electric transmission Right of Ways scheduled for routine maintenance or edge reclamation work the following year. The inventory of the lines scheduled for maintenance in 2007 has already been completed. In areas where ROW restrictions may limit our ability to accomplish the required buffer zone work, the Central Hudson Special Services Division is notified so that these buffer zone restrictions can be addressed prior to the work being scheduled for completion.

Central Hudson intends to continue performing the buffer zone tree removal work as part of the routine ROW maintenance program and will be 100% complete by the end of 2009. Should you require any further information feel free to contact me at (845-486-5844).

Respectfully submitted,



Donald L. DuBois, Jr.  
System Construction Manager  
Email: [ddubois@cenhud.com](mailto:ddubois@cenhud.com)

cc: Mr. David S. Morrell  
State of New York Public Service Commission  
Three Empire Plaza  
Albany, New York 12223 -1350



March 28, 2007

Hon. Jaclyn A. Brillling  
Secretary  
New York State Public Service Commission  
Three Empire State Plaza  
Albany, New York 12223-1350

Re: Case 04-E-0822

Dear Secretary Brillling:

The original and two copies of a plan were filed with the Commission on September 29, 2005, in accordance with the "Order Requiring Enhanced Transmission Right-of-Way Management Practices by Electric Utilities" regarding securing rights or ROW widths in order to maintain industry standards for adequate vegetation management for the bulk and other critical transmission facilities. A similar plan was filed for the remainder of the transmission system on October 31, 2005.

Central Hudson's bulk transmission system consists of three (3) 345 kV lines that have a typical right of way width of 150 feet, which provides 75 feet from the pole line to the right of

284 South Avenue  
Poughkeepsie NY 12601

(845) 452 • 2000  
[www.CHEnergyGroup.com](http://www.CHEnergyGroup.com)

way edge. In response to the Federal Energy Regulatory Commission's Order issued April 19, 2004 Central Hudson also included the SD & SJ as 115 kV critical tie line facilities and the FV Line as a critical 69 kV tie line facility. Central Hudson recognizes and encounters situations within its routine maintenance activities where easement language, public constraints and regulatory limitations prohibit clearing the right of way to these widths.

The first step in developing a plan for securing additional rights or ROW widths is to conduct a comprehensive review of the bulk transmission system to determine the number and location of any deficiencies in existing ROW width. A list of locations was developed where the right of way width is less than the typical 150 feet for the 345 kV lines or less than 100 feet for 115 kV or 69 kV critical tie line interconnection facilities by reviewing the plan and profile maps for each line.

Central Hudson owns between 80% and 95% of the ROW's for each of the 345 kV Lines with the remaining 5% to 20% being ROW by easement. There are only a few areas where the ROW width is less than optimal on these lines. For the 115 kV SD & SJ Lines and 69 kV FV Line the Right of Ways are 100% by easement with no restrictions to maintaining the full width of 100 feet.

The analysis indicated that the following locations on the bulk transmission system warranted further evaluation of the potential for obtaining additional ROW width: 303 line adjacent

to the NYS Thruway for a length of 5,500 feet where the ROW width on the west side is 65 feet less than optimal, and along the New York, New Haven, & Hartford Rail Road for a length of 3,055 feet where the ROW width is 25 feet less than optimal. 311 line for a length of 4,454 feet where the existing ROW is 25 less than optimal on the north side and a second location for a length of 1,692 feet where the existing ROW is 5 feet less than optimal on the north side.

Since the bulk transmission is the highest priority, Central Hudson's Special Services Division has concentrated on the four restrictions noted above on the 345 kV lines to determine if acquiring additional rights or ROW width at these locations is feasible. As indicated above, these restrictions were noted based on a review of the Plan and Profile drawings. In 2006, Special Services performed a more thorough review of the easements and property records associated with these four restrictions and meetings were held with the ten (10) of the affected landowners. Central Hudson is currently having land surveys and property value assessments performed to facilitate making offers to acquire the additional ROW widths. After completing the work associated with the bulk transmission system, Special Services will begin the same process on the next highest priority lines (radial 115 kV lines).

To ensure that transmission reliability on the bulk transmission system is not impacted by these ROW width

restrictions during the negotiation process, a comprehensive ground inspection of the bulk transmission system will continue to be performed on an annual basis. The list of exceptions will be utilized for tracking and monitoring the locations with less than optimal ROW width from a vegetation management perspective as well as conducting the annual field assessments to ensure that adequate clearances will be maintained until the next scheduled maintenance cycle.

Should you require any further information feel free to contact me at (845-486-5844).

Respectfully submitted,



Donald L. DuBois, Jr.  
System Construction Manager  
Email: [ddubois@cenhud.com](mailto:ddubois@cenhud.com)

cc: Mr. David S. Morrell  
State of New York Public Service Commission  
Three Empire Plaza  
Albany, New York 12223 -1350

March 29, 2006

Honorable Jaclyn A. Brillling  
Secretary  
State of New York  
Department of Public Service  
Three Empire Plaza  
Albany, New York 12223

Dear Ms. Brillling,

Re: 2005 Electric Transmission Vegetation Management Report  
Central Hudson Gas & Electric Corporation

Enclosed is our 2005 Electric Transmission Vegetation Management Report. The report includes the following information:

1. 2005 Herbicide Usage Report
2. Quantity and Cost of Work Completed by Technique (Completion Year: 2005)
3. Electric Transmission ROW Management Program for 2005 (Status of Work Planned)
4. Electric Transmission ROW Management Program for 2006

Should you require further information concerning this filing, please contact me at 845-486-5844.

Sincerely,

Donald L. DuBois, Jr.  
Manager of System Construction

Copy to: Dave Morrell, NYSDPS  
Charles Freni, Senior Vice President of Customer Services  
Records Retention

CENTRAL HUDSON ELECTRIC TRANSMISSION  
HERBICIDE USEAGE REPORT 2005

| METHOD    | MIX   | ACRES TREATED | MIXED GALLONS | MIXED GAL./AC. | CONCENTRATE GALLONS | CONCENTRATE GAL./ACRE |
|-----------|---|---------------|---------------|----------------|---------------------|-----------------------|
| L.V.F.    | KRENITE - 5 GAL.<br>ARSENAL - 32 OZ.<br>ESCOURT - 3 OZ.<br>WATER - 94.75 GAL<br>TOTAL - 100 GAL | 1015 ac.      | 12180         | 12             | 639.5               | 0.63                  |
| L.V.F.    | ACCORD - 4 GAL.<br>ARSENAL - 48 OZ.<br>WATER - 95.7 GAL.<br>TOTAL - 100 GAL.                    | 150           | 1200          | 8              | 48                  | 0.32                  |
| Cut Treat | GARLON 4 - 1 GAL.<br>STALKER - 5 OZ.<br>MINERAL OIL - 3 GAL.                                    | 200           | 250           | 1.25           | 84.5                | 42                    |
| Cut Treat | ACCORD - 50%<br>WATER - 50%   | 32            | 8             | 0.25           | 4                   | 0.125                 |

CENTRAL HUDSON GAS & ELECTRIC CORPORATION  
 2005 ELECTRIC TRANSMISSION RIGHT OF WAY MANAGEMENT PROGRAM  
 QUANTITY AND COST OF WORK COMPLETED BY TECHNIQUE

| TREATMENT METHOD                                       | WORK COMPLETED | TOTAL COST  | AVERAGE COST     |
|--|----------------|-------------|------------------|
| <b><u>ROUTINE RIGHT OF WAY MAINTENANCE PROGRAM</u></b> |                |             |                  |
| side trim  | 10 miles       | \$48,000    | \$4,800.00/Mile  |
| no-work  | 100 acres      | \$0         | \$0.00/ACRE      |
| cut,stump treat  | 237 acres      | \$85,721    | \$361.69/ACRE    |
| cut,chip,stump treat                                   | 35 acres       | \$33,775    | \$965.00/ACRE    |
| backpack low volume foliar                             | 1,165 acres    | \$284,409   | \$244.13/ACRE    |
| hydraulic low volume foliar                            |                |             |                  |
| hydraulic high volume foliar                           |                |             |                  |
| radiarc  |                |             |                  |
| mow  | 42 acres       | \$13,230    | \$315.00/ACRE    |
| mow,cut stubble  |                |             |                  |
| <b>ROUTINE PROGRAM SUMMARY</b>                         |                |             |                  |
| total routine program                                  | 1,479 acres    | \$417,135   | \$282.04/ACRE    |
| total side trim  | 10 miles       | \$48,000    | \$4,800.00/Mile  |
| Total Routine Expenditures:                            |                | \$465,133   |                  |
| <b><u>EDGE ENCROACHMENT RECLAMATION</u></b>            |                |             |                  |
| edge reclamation                                       | 62.8 miles     | \$480,926   | \$7,658.06/Mile  |
| <b><u>DANGER TREE REMOVAL PROGRAM</u></b>              |                |             |                  |
| danger tree  | 8 miles        | \$48,797    | \$6,099.63/Mile  |
| <b><u>HOT SPOT TRIMMING PROGRAM</u></b>                |                |             |                  |
| hot spot   | 12 miles       | \$125,656   | \$10,471.33/Mile |
| Total 2005 Program Expenditures:                       |                | \$1,120,512 |                  |

## Central Hudson Electric Transmission ROW Management Program for 2005

| Line Designation | From            | To               | Voltage | Status   |
|------------------|-----------------|------------------|---------|----------|
| OR Line          | Ohioville       | Hurley Avenue    | 115     | Complete |
| OR Line          | Highland        | Ohioville        | 115     | Complete |
| HP Line          | Hurley Avenue   | Lincoln Park     | 115     | Complete |
| O Line           | Ohioville       | Sturgeon Pool    | 69      | Complete |
| N Line           | Sturgeon Pool   | Boulevard        | 69      | Complete |
| OB Line          | Ohioville       | Boulevard        | 69      | Complete |
| OB Line          | Dashville Tap   |                  | 69      | Complete |
| SB Line          | Hurley Avenue   | Saugerties       | 69      | Complete |
| H Line           | Saugerties      | North Catskill   | 69      | Complete |
| CL Line          | Catskill        | Lawrenceville    | 69      | Complete |
| CL Line          | Lawrenceville   | South Cairo      | 69      | Complete |
| P Line           | High Falls      | Kerhonkson       | 69      | Complete |
| P Line           | Accord          | Kerhonkson       | 69      | Complete |
| P Line           | High Falls      | Accord           | 69      | Complete |
| P Line           | Sturgeon Pool   | High Falls       | 69      | Complete |
| MK Line          | Modena          | Galeville        | 69      | Complete |
| MK Line          | Kerhonkson      | Honk Falls       | 69      | Complete |
| MK Line          | Galeville       | Kerhonkson       | 69      | Complete |
| I Line           | Hurley Avenue   | Boulevard        | 69      | Complete |
| E Line           | Standfordville  | Smithfield       | 69      | Deferred |
| E Line           | Pleasant Valley | Hibernia         | 69      | Deferred |
| E Line           | Hibernia        | Stanfordville    | 69      | Deferred |
| FV Line          | Smithfield      | Conn. State Line | 69      | Deferred |

**Total Acres included in the 2005 Program: 1549**  
**Total Anticipated Treatable Acres: 1315**  
**Total Actual Treated Acres: 1479**

## Central Hudson Electric Transmission ROW Management Program for 2006

| Line Designation | From            | To               | Voltage |
|------------------|-----------------|------------------|---------|
| PX Line          | Ohioville       | Modena           | 115     |
| T Line           | North Catskill  | Athens - Tap     | 115     |
| V Line           | North Catskill  | NiMo - Tap       | 115     |
| LR Line          | Lincoln Park    | East Kingston    | 115     |
| LR Line          | East Kingston   | Rhinebeck        | 115     |
| GM Line          | Greenfield      | Clinton Avenue   | 69      |
| GM Line          | Tap-Honk Falls  |                  | 69      |
| WH Line          | Woodbourne Tap  |                  | 69      |
| WH1&2            | Ellenville Tap  |                  | 69      |
| WH1&2            | Honk Falls      | Woodbourne       | 69      |
| HG Line          | Grahamsville    | Neversink        | 69      |
| HG Line          | Honk Falls      | NYBWS            | 69      |
| HG Line          | NYBWS           | Grahamsville     | 69      |
| SR Line          | Saugerties      | Woodstock        | 69      |
| CF Line          | South Cairo     | Freehold         | 69      |
| FW Line          | Freehold        | Westerlo         | 69      |
| CN Line          | Coxsackie       | New Baltimore    | 69      |
| NC Line          | North Catskill  | Coxsackie        | 69      |
| E Line           | Standfordville  | Smithfield       | 69      |
| E Line           | Pleasant Valley | Hibernia         | 69      |
| E Line           | Hibernia        | Stanfordville    | 69      |
| FV Line          | Smithfield      | Conn. State Line | 69      |

**Total Acres included in the 2006 Program: 1585**  
**Total Anticipated Treatable Acres: 1426**

March 29, 2005

Honorable Jaclyn A. Brillling  
Secretary  
State of New York  
Department of Public Service  
Three Empire Plaza  
Albany, New York 12223

Dear Ms. Brillling,

Re: 2004 Electric Transmission Vegetation Management Report  
Central Hudson Gas & Electric Corporation

Enclosed is our 2004 Electric Transmission Vegetation Management Report. The report includes the following information:

1. 2004 Herbicide Usage Report
2. Acres Summary Report – Acres by Technique (Completion Year: 2004)
3. Treatment Acres and Cost report – by Technique (Completion Year: 2004)
4. Electric Transmission ROW Management Program for 2005

Should you require further information concerning this filing, please contact me at 845-486-5844.

Sincerely,

Donald L. DuBois, Jr.  
Manager of System Construction

Copy to: Dave Morrell, NYSDPS  
Charles Freni, Senior Vice President of Customer Services  
Records Retention

# Central Hudson Electric Transmission Right-of-Way Program

## 2004 HERBICIDE USAGE REPORT

### MIXED GALLONS USED

#### MIXTURE

KRENITE - 5 GAL.  
ARSENAL - 32 OZ.  
ESCOURT - 3 OZ.  
WATER - 94.75 GAL  
TOTAL - 100 GAL

845 GAL.

ACCORD - 4 GAL.  
ARSENAL - 48 OZ.  
WATER - 95.7 GAL.  
TOTAL - 100 GAL.

50 GAL.

GARLON 4 - 1 GAL.  
STALKER - 5 OZ.  
MINERAL OIL - 3 GAL.

62 GAL.

ACCORD - 50%  
WATER - 50%

20 GAL.

# Central Hudson Electric Transmission Right-of-Way Program

Acres Summary Report - Acres by Technique

Completion Year: 2004

| Treatment Method | Incompatible Density |                              |                         |                    |
|------------------|----------------------|------------------------------|-------------------------|--------------------|
|                  | None                 | Very Light<br>< 100 stems/ac | Light<br>100 stem - 30% | Dense<br>70 - 100% |

|                              |    |     |     |    |
|------------------------------|----|-----|-----|----|
| No work                      | 26 |     |     |    |
| Cut, Stump treat             |    | 10  | 65  | 18 |
| Cut, Stump treat, pile       |    |     | 10  | 9  |
| Cut, Stump treat, chip       |    |     | 12  | 25 |
| Basal                        |    |     |     |    |
| Back Pack Low Volume Foliar  |    | 189 | 386 | 34 |
| Hydraulic Low Volume Foliar  |    |     |     |    |
| Hydraulic High Volume Foliar |    |     |     |    |
| Radiarc                      |    |     |     |    |
| Mow                          |    |     |     |    |
| Mow, cut stubble             |    |     |     |    |

Total Acres 26.00 199.00 473.00 241.00 86.00

## Central Hudson Electric Transmission ROW Management Program for 2004

| District     | Line Designation | From            | To              | Voltage | Miles Trimmed | Acres Treated |
|--------------|------------------|-----------------|-----------------|---------|---------------|---------------|
| Poughkeepsie | MR Line          | Milan           | Rhinebeck       | 115     | 7.0           | 80.0          |
| Newburgh     | DB Line          | Danskammer      | West Balmville  | 115     | 7.0           | 79.0          |
| Newburgh     | DR Line          | Danskammer      | Reynolds Hill   | 115     | 11.0          | 125.0         |
| Poughkeepsie | HR Line          | Highland        | Reynolds Hill   | 115     | 0.5           | 6.0           |
| Newburgh     | RD/RJ/JB Lines   | Rock Tavern     | Union Avenue    | 115     | 9.0           | 153.0         |
| Poughkeepsie | GE Line          | Smithfield      | Pulvers Corners | 69      | 10.0          | 142.0         |
| Poughkeepsie | Q Line           | Pleasant Valley | Rhinebeck       | 69      | 21.0          | 238.0         |
| Poughkeepsie | S Line           | Smithfield      | Pulvers Corners | 69      | 5.0           | 57.0          |
| Newburgh     | WM Line          | East Walden     | O & R           | 69      | 16.5          | 145.0         |
| Totals:      |                  |                 |                 |         | 87.0          | 1,025.0       |

Total Miles Completed in the 2004 Program: 87  
 Total Acres Completed in the 2004 Program: 1,025

# Central Hudson Electric Transmission Right-of-Way Program

## Treatment Acres and Cost Report - by Technique

Completion Year: 2004

| Treatment Method             | Miles     |           | Acres        |          | Total Cost       | Cost/Mile  | Cost/Acre |
|------------------------------|-----------|-----------|--------------|----------|------------------|------------|-----------|
|                              | Complete  | Complete  | Complete     | Complete |                  |            |           |
| No work                      |           |           | 26           |          | \$0              |            |           |
| Side Trim                    | 87        |           |              |          | \$408,900        | \$4,700.00 |           |
| Cut, Stump treat             |           |           | 115          |          | \$20,700         |            | \$180.00  |
| Cut, Stump treat, pile       |           |           | 54           |          | \$11,880         |            | \$220.00  |
| Cut, Stump treat, chip       |           |           | 106          |          | \$26,500         |            | \$250.00  |
| Basal                        |           |           |              | 724      | \$84,283         |            | \$116.41  |
| Back Pack Low Volume Foliar  |           |           |              |          |                  |            |           |
| Hydraulic Low Volume Foliar  |           |           |              |          |                  |            |           |
| Hydraulic High Volume Foliar |           |           |              |          |                  |            |           |
| Radiarc                      |           |           |              |          |                  |            |           |
| Mow                          |           |           |              |          |                  |            |           |
| Mow, cut stubble             |           |           |              |          |                  |            |           |
| <b>Total</b>                 | <b>87</b> | <b>87</b> | <b>1,025</b> |          | <b>\$552,263</b> |            |           |

## Central Hudson Electric Transmission ROW Management Program for 2005

| Line Designation | From            | To               | Voltage |
|------------------|-----------------|------------------|---------|
| OR Line          | Ohioville       | Hurley Avenue    | 115     |
| OR Line          | Highland        | Ohioville        | 115     |
| HP Line          | Hurley Avenue   | Lincoln Park     | 115     |
| O Line           | Ohioville       | Sturgeon Pool    | 69      |
| N Line           | Sturgeon Pool   | Boulevard        | 69      |
| OB Line          | Ohioville       | Boulevard        | 69      |
| OB Line          | Dashville Tap   |                  | 69      |
| SB Line          | Hurley Avenue   |                  | 69      |
| H Line           | Saugerties      | Saugerties       | 69      |
| CL Line          | Catskill        | North Catskill   | 69      |
| CL Line          | Lawrenceville   | Lawrenceville    | 69      |
| P Line           | High Falls      | South Cairo      | 69      |
| P Line           | Accord          | Kerhonkson       | 69      |
| P Line           | High Falls      | Kerhonkson       | 69      |
| P Line           | Sturgeon Pool   | Accord           | 69      |
| MK Line          | Modena          | High Falls       | 69      |
| MK Line          | Kerhonkson      | Galeville        | 69      |
| MK Line          | Galeville       | Honk Falls       | 69      |
| I Line           | Hurley Avenue   | Kerhonkson       | 69      |
| E Line           | Standfordville  | Boulevard        | 69      |
| E Line           | Pleasant Valley | Smithfield       | 69      |
| E Line           | Hibernia        | Hibernia         | 69      |
| FV Line          | Smithfield      | Stanfordville    | 69      |
|                  |                 | Conn. State Line | 69      |

Total Acres included in the 2005 Program: 1549

Total Anticipated Treatable Acres: 1315

Attachment 2

Copy to: Mr. J. P. Lovette  
Mr. S.E. Burger  
Mr. J.A. Clock  
Mr. T. C. Duffy  
Mr. D.L. Dubois  
Mrs. R.K. Fournier  
Mr. C.A. Freni

Mr. D.G. Langseder  
Mr. J. M. May  
Mrs. J. Sammon  
Mr. K.L. Schoeberl  
Mr. H.W. Turner  
Mr. J. W. Watzka  
E.P. #2006-001

May 9, 2006

Mr. P. E. Haering

**Re: WM Line Study**

**Reference:**

- [1.] Balcanoff, M.G. "WM Line Study," E.P. #95-17. September 5, 1996.
- [2.] Wright, R.B. "East Walden Transformer Replacement," E.P. #97-20. Oct. 23, 1997.
- [3.] Hamilton, S.D. "Distributed Generation Pilot Program Findings and Recommendations," May 13, 2004.

**Introduction**

The last study of the WM line took place in 1995. At that time, it was concluded that (at the projected load growth of 3.75%) the WM line had sufficient capacity to accommodate expected normal growth for 13 years or more. It was, therefore, recommended that the line be maintained rather than replaced or upgraded. However, load growth has occurred at a higher rate (approximately 4.9%) over the past seven years and the WM line is approaching its long-term emergency (LTE) thermal limit. Therefore, analysis is necessary to develop a recommendation on the future of the WM line.

**Description**

The WM Line is a 69kV transmission line between Rock Tavern and East Walden Substations with a normally open point at NYSEG's Walden Substation. A WM line tap runs from a point between Rock Tavern and Maybrook Substations to Orange & Rockland's (O&R) Blooming Grove Substation, where it is normally open. Based on the Summer LTE thermal rating of the WM line station connectors, the firm capability of this area is approximately 44 MVA. Attachment #1 provides a map of the WM Line area showing the surrounding roads and the current line location.

The WM line serves load at Walden, Maybrook, and Montgomery Substations. Under normal system conditions, NYSEG's Walden Substation is supplied from East Walden's 115/69kV Transformer #3. Maybrook and Montgomery Substations are supplied from Rock Tavern's 115/69kV Transformer #2. Upon contingency loss of either side, the one remaining transformer

would need to serve the entire WM line load. For example, when the East Walden Transformer #3 is taken out of service, the Rock Tavern Transformer #2 must serve the entire WM line load.

### Physical Description

The original WM line is a 1930's vintage wood pole line consisting of primarily 1/0 copper conductor. The line is primarily cross-arm construction with a 3 #6 AW static wire. The structure condition report from the Transmission Inspection & Maintenance (TIM) program does not show any major problems with the WM line. Approximately 10% of the 322 WM line poles have severity 4 conditions, and only four poles have a severity 5 (the worst) condition. Severity 2 incipient decay was recorded for approximately 77% of the poles, but this is not deemed a major problem.

Central Hudson has only pole rights for most of the WM line.<sup>1</sup> Encroachments are prevalent on High Meadows Road and Oakland Avenue since the line is very close to residential homes in this area. A summary of the different line segments of the WM line is included in Table #1:

**Table #1: WM Line Sections**

| Line Section                                  |   | Conductor                     | Miles | Summer LTE <sup>1</sup> |
|---|---|-------------------------------|-------|-------------------------|
| From  | To  |                               |       |                         |
| East Walden Substation                        | Walden (NYSEG) Tap                            | 1/0 Cu. (7 Str.)              | 3.31  | 47.0                    |
| Walden (NYSEG) Tap                            | Walden Substation                             | 3/0 ACSR (6/1) <sup>2</sup>   | 0.86  | 52.7                    |
| Walden Substation                             | Walden (NYSEG) Tap                            | 3/0 ACSR (6/1) <sup>2</sup>   | 0.86  | 52.7                    |
| Walden Tap                                    | Montgomery Substation                         | 1/0 Cu. (7 Str.)              | 2.491 | 47.0                    |
| Montgomery Substation                         | Maybrook Substation                           | 1/0 Cu. (7 Str.)              | 2.98  | 47.0                    |
| Maybrook Substation                           | Blooming Grove (O&R) Tap <sup>3</sup>         | 1/0 Cu. (7 Str.)              | 0.661 | 47.0                    |
| Blooming Grove (O&R) Tap <sup>3</sup>         | Rock Tavern Substation                        | 336.4 AAC (19 Str.)           | 1.846 | 74.6                    |
| Blooming Grove (O&R) Tap <sup>3</sup>         | Pole #2201 (Normally Open Point) <sup>4</sup> | 1/0 Cu. (7 Str.) <sup>5</sup> | 3.503 | 47.0                    |
| Pole #2201 (Normally Open Point) <sup>4</sup> | Blooming Grove Substation                     | 1/0 Cu. (7 Str.) <sup>6</sup> | 2.330 | 47.0                    |
|   |   | 2/0 Cu. <sup>6</sup>          | 1.004 | 54.1                    |

**Table** 1. All limits in MVA.  
**Notes:** 2. Sections owned & operated by NYSEG. (Walden Tap at Poles #1898B & #1989A.)  
3. Blooming Grove (O&R) Tap located at Pole #110459.  
4. Pole #2201 is the transition point between Central Hudson and O&R.  
5. Central Hudson owns & operates this section, which is normally energized.  
6. Sections owned & operated by Orange & Rockland.

<sup>1</sup> The only section of Right of Way on the WM line is a three-mile section of Right of Way (20 foot wide) existing from Hill St. in Walden almost to the Montgomery Substation.

**Performance Analysis**

Over the past 16 years (1989 to 2005) there have been a total of 32 permanent outages on the WM line. These outages have been mainly caused by tree contacts, structural failures, and storms. Attachment #2 provides a graph showing the outages by year (1989 to 2005) and cause. Table #2 breaks down these 32 trips by section:

**Table #2: WM Line Permanent Trip History (1989-2005)**

| Line Section           |                | Total Trips | Causes  |
|------------------------|----------------|-------------|---|
| From                   | To             |             |   |
| East Walden            | Walden Tap     | 15          | Tree (6); Storm (4); Structure (2); Splice (1); Vehicle (1); Fire (1) |
| NYSEG's Walden Section |                | 3           | Structure (2); Substation (1)   |
| Walden Tap             | Montgomery     | 2           | Tree (1); Conductor (1)   |
| Montgomery             | Maybrook       | 10          | Tree (5); Unknown (2); Substation (1); Storm (1); Lightning (1)       |
| Maybrook               | Rock Tavern    |             |   |
| Blooming Grove Tap     | Blooming Grove | 2           | Conductor (1); Unknown (1)  |
| Total =                |                | 32          |   |

A total of 15 of the 32 trips over the past 16 years have occurred on the East Walden to Walden Tap section of the WM line. This section of the line resides primarily in a residential area with little or no Right of Way (ROW).

Historically, the WM line has been one of the worst performing lines on the Central Hudson system. This trend has recently become worse for the WM line, as the line has had nine permanent outages over the past 2 years.

**Load Analysis**

As stated before, WM line load growth has occurred at a higher rate than expected. The I-84 corridor is a growing area that includes many warehouse and supply buildings. Neelytown Road is a high growth commercial and industrial area served from the Maybrook Substation.

Summer peak coincident flows on the East Walden 115/69kV Transformer #3 and the Rock Tavern 115/69kV Transformer #2 were compiled and analyzed for the past 11 years to estimate when the area load may exceed the line's capability. Table #3 displays the summer coincident peak flows for both transformers separately and the total transformer flow (representative of the WM line area peak):

**Table #3: Summer Coincident Peak WM Line Transformer Flows**

| Year | East Walden Tr. #3 Flows |       |       |              | Rock Tavern Tr. #2 Flows |       |       |       | Total Transformer Flows |       |              |              |
|------|--------------------------|-------|-------|--------------|--------------------------|-------|-------|-------|-------------------------|-------|--------------|--------------|
|      | MW                       | MVAR  | MVA   | p.f.         | MW                       | MVAR  | MVA   | p.f.  | MW                      | MVAR  | MVA          | p.f.         |
| 1994 | 12.91                    | 7.62  | 14.99 | 0.861        | 16.20                    |       |       |       | 29.11                   |       |              |              |
| 1995 | 13.96                    | 8.47  | 16.33 | 0.855        | 17.10                    |       |       |       | 31.06                   |       |              |              |
| 1996 | 13.26                    | 8.72  | 15.87 | 0.836        | 15.30                    |       |       |       | 28.56                   |       |              |              |
| 1997 | 14.00                    | 8.11  | 16.18 | 0.865        | 16.20                    |       |       |       | 30.20                   |       |              |              |
| 1998 | 13.40                    | 8.00  | 15.61 | 0.859        | 17.00                    |       |       |       | 30.40                   |       |              |              |
| 1999 | 16.18                    | 9.05  | 18.54 | 0.873        | 18.40                    |       |       |       | 34.58                   |       |              |              |
| 2000 | 14.93                    | 7.53  | 16.72 | 0.893        | 17.10                    |       |       |       | 32.03                   |       |              |              |
| 2001 | 17.20                    | 8.65  | 19.25 | 0.893        | 19.44                    | 10.75 | 22.21 | 0.875 | 36.64                   | 19.40 | 41.46        | 0.884        |
| 2002 | 20.12                    | 10.29 | 22.60 | 0.890        | 17.89                    | 3.35  | 18.20 | 0.983 | 38.01                   | 13.64 | 40.38        | 0.941        |
| 2003 | 18.68                    | 9.44  | 20.93 | 0.893        | 17.82                    | 3.70  | 18.20 | 0.979 | 36.50                   | 13.14 | 38.79        | 0.941        |
| 2004 | 18.31                    | 8.81  | 20.32 | 0.901        | 17.32                    | 2.74  | 17.54 | 0.988 | 35.63                   | 11.55 | 37.46        | 0.951        |
| 2005 | 21.68                    | 11.14 | 24.38 | <b>0.890</b> | 19.38                    | 4.39  | 19.87 | 0.975 | 41.06                   | 15.52 | <b>43.90</b> | <b>0.935</b> |

As stated before, the firm capability for the WM line area is 44 MVA. The peak flow for 2005 almost reached this firm capability at 43.9 MVA.

The poor power factor of 0.935 for the area is one of the reasons the MVA total was so close to its LTE limit. This poor power factor is directly attributable to the 0.890 power factor shown for the East Walden transformer. As shown in Table #3, this transformer (serving the Walden Substation) has a historical power factor below 0.900. Improvement of this power factor would potentially free up an additional 1 to 2 MW of capacity from the existing system.

### Substation Loads

The coincident peak loads are broken down by substation in Attachment #3. Peak loads at the Maybrook Substation<sup>2</sup> were steady from 1991 to 2000. An increase of approximately 4.5 MVA occurred between 2000 and 2003 to bring the substation load to approximately 16.0 MVA. This load increase largely was due to commercial and industrial load growth in the area. For example, a recycling plant was added to circuit 5051 in 2001 that added 1.0 MVA of industrial load. Maybrook loads reached a high of 17.3 MVA in 2005. The firm rating of the Maybrook Substation is 19.4 MVA.

<sup>2</sup> Calculated by the addition of the Maybrook distribution circuit loads.

Coincident peak loads at Montgomery Substation increased approximately 1.0 MVA from 2000 to 2001. These loads stayed constant through 2002, but dipped back down in 2003 after 1.0 MVA of load was transferred to Coldenham Substation. The 2005 peak load at Montgomery was estimated at 2.12 MVA. Montgomery loads have been estimated for 2001 and from 2003 to 2005 because there is no metering for some of the circuits. The firm rating of the Montgomery Substation is currently 2.8 MVA. An upgrade of the Montgomery Substation is planned for 2010 that will add two 20 MVA transformers to the substation. This upgrade would increase the firm rating of the Montgomery Substation to 30MVA.

Coincident peak loads at NYSEG's Walden Substation (estimated as East Walden 115/69kV Transformer #3 flows) increased almost 6 MVA from a level of 16.7 MVA in 2000 to 22.6 MVA in 2002. Walden's peak MVA decreased 2 MVA from 2002 to 2004 before reaching a high of 24.4 MVA in 2005. The MVAR load at Walden increased to 11.1 MVAR in 2005. During a meeting with NYSEG representatives in 2004, they indicated no new major loads were expected at Walden.

### **Expected Load Growth**

Higher than normal load growth is expected in the WM line area. Large housing developments in the area are being planned and farm area around the Orange County Airport is being promoted for development. Continued area growth will result in the transmission line's capability being exceeded.

Using the East Walden & Rock Tavern transformer historical MVA flows, growth rates were calculated based on the past three, five, and seven-year periods to provide a range of possible load growths. Transformer flows over the past three years have increased at a growth rate of approximately 2.8%, while growth rates over the past five- and seven-year periods were 5.9% and 4.9%, respectively. Attachment #4 shows these projected area load growths.<sup>3</sup>

### **WM Line Limits**

The limiting elements on the WM line are the existing 1/0 copper station connectors at the Montgomery and Maybrook Substations. Therefore, the WM line area limit is the Summer LTE rating of these station connectors (44 MVA). As stated before, the area load was close to this limit in 2005.

However, review of the station connectors (see Figure 1), suggests that the station connector limit may be disregarded for this analysis. Since the station connectors are out in the open, there will be a minimal reduction in wind speed between the line and the station connector. Additionally, if a problem did occur at the station connectors, it would be quick to fix.

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<sup>3</sup> All values displayed on Attachment #4 are in terms of 115/69kV transformer MVA flows.

