APPENDIX C

New York State Electric and Gas Corporation And Rochester Gas and Electric Corporation Transmission Vegetation Management Quality Assurance Plan

New York State Electric and Gas Corporation and Rochester Gas and Electric Corporation Transmission Vegetation Management Quality Assurance Plan

The purpose of this Quality Assurance Plan (QAP) is to ensure that transmission vegetation management work is completed in accordance with state requirements and the specifications and procedures of New York State Electric and Gas Corporation (NYSEG) and Rochester Electric and Gas Corporation (RG&E). These procedures are detailed in the Long-Range Right-of-Way Management Plan for the NYSEG Electric Transmission System and in the Long-Range Right-of-Way Management Plan for the RG&E Electric Transmission System. As revised from time to time, these long range plans serve as NYSEG's and RG&E's Transmission Vegetation Management Plans (TVMP) for the purposes of NERC standard FAC-003.

Training

To ensure transmission vegetation management compliance, NYSEG and RG&E rely on professional forestry employees, and as necessary, qualified professional contractors (collectively "foresters"). Members of this forestry group are required to have, at a minimum, either a Bachelor of Science degree in forestry (or a related applied environmental discipline) **or** a two-year degree with a minimum of three years' related work experience.

Foresters utilized for quality assurance and quality control (QA/QC) inspections shall complete an annual review of the TVMP.

All inspectors utilized for vegetation patrols (e.g., foresters and Operations Line Inspectors) shall complete NYSEG's course EVN 500, *TVMP and Vegetation Patrols* or its equivalent.

Quality Assurance of the Annual Plan

As specified in their TVMPs, NYSEG and RG&E perform quality assurance through a variety of methods. The vegetation maintenance work is planned on a site-specific basis, and only a select group of contractors are allowed to bid on the work. The Procurement Department qualifies the contractors prior to awarding the work. After the work is awarded to one or more contractors (hereafter "Contractor"), the division forestry group conducts start-up meetings to review the work procedures. During the course of the work, the Contractor's progress and performance are continually monitored.

Upon completion of the work, the Contractor reviews the job to insure that:

- A. All specified cutting has been completed and all cut vegetation has been disposed of in accordance with the job instructions.
- B. All areas scheduled for herbicide application have been treated and all areas where incomplete application is discernible have been retreated.

After this review, the Contractor invoices the Company for all work performed less any outstanding work required. Receipt of the invoice by the Company serves as notice that the Contractor affirms completion of the work and that items A and B above have been performed. Upon receipt of the invoice, the Company Representative reviews the treatment records and, if in agreement, processes the invoice for payment. If the Company Representative is not in agreement with the invoice or some aspect of the work, invoice approval is withheld and the Contractor is notified so that corrections can be made.

During the next growing season after completion of the work, the Contractor shall review the job and insure that:

- A. All specified cutting has been completed and all cut vegetation has been disposed of in accordance with the job instructions.
- B. The percentage of kill is 100% within the wire zone (seedlings under 3 feet in height are exempted) and at least 95% in the border zone on each site where herbicide treatment was specified.
- C. Living incompatible species greater than six feet in height found within the wire zone during the final review shall be cut. Where applicable, the stumps shall be treated. Living incompatible species less than six feet in height in the wire zone may receive an LVF treatment, where applicable. All formulations shall be approved by the Company Representative.

Upon completion of this review and any necessary correction to the work, the Contractor shall submit a written statement certifying that items A, B, and C above have been completed and that the job is submitted for final acceptance by the Company. The Contractor shall provide the written statement to the Company Representative no later than August 1 during the year following initial treatment. If the review is not completed by August 1, the Company Representative may have the final review performed and any necessary corrective action completed at the expense of the Contractor.

Any contractual quality control issues that can not be readily resolved at the point of concern will be referred to the Procurement Department, who will take corrective action with quality deficient suppliers.

Vegetation Patrols

Pursuant to the TVMPs, scheduled aerial and ground patrols are performed to monitor vegetation/conductor clearances and to detect danger trees. The results of the patrol and any corrective actions taken will be recorded either electronically or in paper format using standard inspection forms. Any required corrective action will be identified on the inspection form and the completed corrective action will be recorded. The inspection forms for bulk transmission are reviewed and certified by the Manager of Vegetation Management/Transmission will arrange for an annual field audit of bulk transmission aerial and ground patrols to evaluate the accuracy of the reports submitted. Following these annual inspections, the Manager of Vegetation Management/Transmission will submit a report (i.e., the "Annual Inspection Report") to the Manager Vegetation Management Operations providing a summary of the results and any recommendations. The Manger Vegetation Management Operation Management Operations will review and acknowledges receipt of the bulk patrol inspection forms and the Annual Inspection Report annually.

For lines operating at voltages of 69 kV and above, emergency patrols are performed whenever an unexplained outage occurs on a transmission line. If it is determined that the problem causing the outage is tree-related, the forester will investigate the outage and prepare a Tree-Caused Transmission Outage Report. These outages are reported in accordance with State and Federal regulations.

System Audits

In order to ensure compliance with the respective TVMPs and all State and Federal regulations, the Manger of Vegetation Management/Transmission will arrange for annual random QA/QC inspections of NYSEG and RG&E transmission lines operating at voltages of 69 kV and above.

Summary of Quality Assurance Measures

Purpose	Frequency	Nature of Documentation	See Page #
Train forestry staff	Annual training	TVMP and QAP Review	6
Train forestry starr	7 minuai training	Statement Statement	
Train patrollers	Initial training	Training form	7
Work procedure review	Annually prior to start of annual plan	Start-Up Meeting form	8
Monitor work progress to ensure timely completion of annual plan	Monthly	Sample Transmission Progress Report	9
Notification that work was completed according to specifications	As work is completed	Invoices	NA
Verification of treatment	Annually	Sample Treatment Records	10
Ensure work guarantee was met	Annually, no late than August 1 st of the year following initial treatment	Transmission Contractor Work Guarantee	11
Monitor clearances, danger	Scheduled Vegetation	Various paper and	12-13
trees, and remedial work	Patrols	electronic forms are used	
Investigate tree-caused outages	Following	Tree-Caused	14
on 69kV-345kV	identification of tree-	Transmission Outage	
	caused outage	form	
Management review of bulk	Annually	Scheduled Bulk	15
vegetation patrol records		Vegetation Patrol Review	
Ensure TVMP compliance	Annually	VM Audit form	16
Ensure patrol accuracy and	Annually	Bulk Transmission	17
completion of corrective actions		Vegetation Patrol Audit	

TVMP and QAP Review Statement

Your signature affirms the following statement.

I have reviewed and understand the <i>Long-Range Right-of-Way Management Plan</i> for the <i>NYSEG Electric Transmission System</i> , including all appendices, dated I understand that this plan serves as NYSEG's Transmission Vegetation Management Plan (TVMP) for the purposes of NERC standard FAC-003 and State requirements. I recognize the importance of compliance with the plan since it impacts the reliable operation of NYSEG's electric transmission system, and I understand that I am required to comply with the TVMP.
I have reviewed and understand the <i>Long-Range Right-of-Way Management Plan</i> for the <i>RG&E Electric Transmission System</i> , including all appendices, dated I understand that this plan serves as RG&E's Transmission Vegetation Management Plan (TVMP) for the purposes of NERC standard FAC-003 and State requirements. I recognize the importance of compliance with the plan since it impacts the reliable operation of RG&E's electric transmission system, and I understand that I am required to comply with the TVMP.
I have also reviewed and understand the latest version of the New York State Electric and Gas Corporation and Rochester Electric and Gas Corporation Transmission Vegetation Management Quality Assurance Plan, dated
Name (print)
Signature
Company
Date

Training Attendance Form

Course Name:	Course Code:			
Class Date:	Location:	Start Time: _	Duration (hours):
Instructor Nan	ne(s):	Er	mployee ID:	
Employee/ Contractor ID	Printed Name	Job Title	Work Location	Cost Center
Record entere	d into SAP on (Date)	by(Pe	rson entering data)	
team		,	3	
MSEG RGE 5/2005	Page	e of	Revi	sed

NYSEG/RG&E Transmission Vegetation Maintenance Contract Start-Up Meeting Work Procedure Review

Division	Treatment Year			
Contractor	ctor General Foreman			
Check off items that we	ere discussed			
Herbicide lab	Herbicide label precautions			
Sensitive are	Sensitive areas			
Equipment in	nspection and operation			
Application	procedures			
Spill prevent	ion and clean-up procedures			
	Species identification			
Protection of	Protection of infrastructure			
Other-				
State Certified Pesticion Name	de ApplicatorsExpires			
Name ID # Expires				
Name_				
ID #	D# Expires			
Comments:				
NYSEG representative	's name			
If contract forester, specify your company				
Date				

Sample Transmission Progress Report

Division_____

Transmission Circuit Target Acres % Complete	Month			
/ Jan 3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	smission Circuit	•		

This information is included in a monthly transmission progress report that is submitted to corporate forestry staff.

Sample Treatment Record

Every inventory unit is matched with a treatment record to verify that the site was treated.

OBJECT ID	INVENTORY ID	TREATMENT DATE
42983	48390	8/28/2008
39680	47753	7/30/2008
39686	47762	8/25/2008
39495	49350	8/5/2008
39493	49050	8/5/2008
39682	47765	7/30/2008
39676	47513	7/30/2008
39488	48403	8/4/2008

NYSEG/RG&E Transmission Contractor Work Guarantee

This statement shall be provided to the Company Representative **no later than August 1** during the year following initial treatment.

For the	division, for transmission vegetation management work performed in the
year	under contract number
T	-A
I certify th	
A.	All specified cutting has been completed and all cut vegetation has been disposed of in accordance with the job instructions.
В.	The percentage of kill is 100% within the wire zone (seedlings under 3 feet in height are exempted) and at least 95% in the border zone on each site where herbicide treatment was specified.
C.	Living incompatible species greater than six feet in height found within the wire zone during the final review shall be cut. Where applicable, the stumps shall be treated. Living incompatible species less than six feet in height in the wire zone may receive an LVF treatment, where applicable. All formulations shall be approved by the Company Representative.
This job is	submitted for final acceptance by the Company.
Name (pri	nt)
This section	on to be completed by NYSEG forestry group
The work	has been inspected for items A, B, and C, as stated above.
Name (pri	nt)
_	
Date	
Name (pri	ial work has been completed in accordance with items A, B, and C, as stated above. nt)
Company	

AERIAL VEGETATION PATROL FORM LOCATIONS REQUIRING FURTHER INVESTIGATION or REMEDIAL ACTION Aerial **OPERATING DIVISION:** patrol ____ date LINE NAME/NUMBER: **VOLTAGE: COMPLETED BY: DATE:** STRUCTURE NUMBER CONDITION **CONDITION** DATE OBSERVED CORRECTIVE DATE COMPLETED TO BE **OBSERVED ON ACTION TO CHECKED** THE GROUND **BE TAKEN**

Ground Vegetation Patrol Form

NYSEG RG&E TREE-CAUSED TRANSMISSION OUTAGE For 69kV and Above

	Form Revision Date: March 2011
Division	
Line Number	
Line Name	
Structure #s from to	
Voltage	
Construction Type	
Date of Outage	
Date of Field Investigation	
Matter to the DOW/MC HI	
Maintained ROW Width Tree Inside or Outside of Maintained Width?	
Distance From Conductor to Base of Tree	
Tree Species	
Height (ft)	
Condition of Tree	
% Slope	
Weather conditions	
Major Storm Number	
Report Prepared By	
Additional Comments	
Send to Manager, Vegetation Mgmt Transmission	

Scheduled Bulk Vegetation Patrol Review

Bulk Vegetation Patrol Year_____

Indicate with an X if the item was completed.					
Division	Ground patrol	Remedial work completed	Aerial patrol	Remedial work completed	
Lancaster					
Lockport					
Hornell					
Elmira					
Binghamton					
Oneonta					
Liberty					
Pennsylvania					
I have reviewed these patrols and found them to be complete. Signature Manager- Vegetation Management/Transmission Date					
I have reviewed and acknowledge receipt of these Scheduled Bulk Vegetation Patrols. Signature Manager- Vegetation Management Operations					
Date					

Vegetation Management Audit Of 69 kV and Above Transmission System

Division	Date of Audit	
Line name and #	Operating Voltage	
Treatment Year		
Forester responsible for oversight		
If contract forester, specify company		
Site or str #	Nearest road	
Conditions observed		
Cleared Width	Legal Width	
Residential trees?	205	
Assessment of wire zone		
Assessment of border zone		
Additional Comments		
Name (print)		
Signature		
Company		
Date		

Bulk Transmission Vegetation Patrol Audit

Circle patrol type: Ground Aeria	ıl
Division	Date of Audit
Line name and #	
Voltage	
Treatment Year	
Forester responsible for oversight	
If contract forester, specify company	
Site or str #	Nearest road
Conditions observed	
Assessment of wire zone	
Assessment of danger trees	
If corrective action was required, was it cor	npleted?
Additional Comments	
Name (print)	
Signature	
Company	
Date	