

























I HEREBY CERTIFY that the precise residence of the within grantees is R.D. #1, New Holland (East Earl Township), Lancaster County, Pa. K. L. Shirk, Jr., Attorney
Recorded January 13, 1950. *Frank L. Glencoe* Recorder.

931 C. R. CARRINGTON, ET. UX. }
TO }
PENNA. POWER & LIGHT CO. }
MT. NEBO - MARTIC FORGE CONVERSION: RECEIVED OF PENNSYLVANIA
POWER & LIGHT COMPANY the sum of One Hundred Dollars (\$100.00)
as compensation for trees which have been cut down by said Com-
pany on the property hereinafter described and in consideration
of which payment we do hereby release, quitclaim and discharge the said PENNSYLVANIA POWER &
LIGHT COMPANY of and from any and all rights, agreements, claims and demands whatsoever in law
or in equity or otherwise howsoever, which against the said Company we ever had, now have or
which we, our heirs, executors, administrators, beneficiaries or assigns hereafter can, shall or
may have by reason of any and all damages, losses or injury resulting from the cutting down of
said trees on the property which we own or in which we have any interest along Township Road
T-432 at Martic Forge, in the Township of Martic, County of Lancaster, Commonwealth of Penn-
sylvania, incidental to the construction by said Company of its electric line along said road.

AND, further, in consideration of the said payment we do hereby grant unto said
Company, its successors, assigns and lessees, the right, privilege and authority to maintain,
operate, and from time to time to reconstruct the said electric line, including such poles,
wires, cables, guys, stub poles, fixtures and apparatus as may be from time to time necessary
for the convenient transaction of the business of the said Company, its successors, assigns
and lessees, upon, across, over and along the said property in the Township of Martic, County
of Lancaster, Commonwealth of Pennsylvania; and along the roads, streets or highways, adjoining
the said property, including the right of ingress and egress to and from the said lines at all
times for any of the purposes aforesaid; also the right to cut down, trim, remove and to keep
cut down and trimmed any and all trees, brush or undergrowth on said premises which, in the
judgment of the said Company, may at any time interfere with the reconstruction, maintenance
or operation of the said electric line, poles, wires, cables, guys, stub poles, fixtures and
apparatus, or menace the same; and also the right to permit the attachments of wires and cables
of any other person or company to said poles. Any poles or facilities erected hereunder may,
without the payment of further consideration, be relocated to conform to new or relocated highway
limits. WITNESS our hands and seals this 9th day of February, 1950.

Signed, Sealed and Delivered in the presence of: C. R. Carrington (SEAL)
John M. Bair Bertha C. Carrington (SEAL)

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF LANCASTER, SS: On this 9th day of February
1950, before me, a Notary Public for the Commonwealth aforesaid, commissioned for and residing
in the City of Lancaster, County of Lancaster came the above named C.R. Carrington and Bertha
C. Carrington, and acknowledged the foregoing instrument to be their act and deed, and desired
the same to be recorded as such. WITNESS my hand and Notarial seal the day and year aforesaid.
My Commission Expires Jan. 7, 1951. John M. Bair, Notary Public (N.P. SEAL)
Recorded February 23, 1950. *Frank L. Glencoe* Recorder.

932 HARRIET R. CALDWELL, ET. AL. }
TO }
PENNA. POWER & LIGHT CO. }
KNOW ALL MEN BY THESE PRESENTS, That we HARRIET R. CALDWELL
& OWEN B. CALDWELL, her husband, RAYMOND P. CALDWELL &
MILDRED H. CALDWELL, his wife, ABRAM D. MELLINGER & GLADYS
I. MELLINGER, his wife & VINCENT W. NOLT & HELEN NOLT, his
wife, in consideration of the sum of One Dollar (\$1.00) to us paid at the date hereof by PENN-
SYLVANIA POWER & LIGHT COMPANY, the receipt whereof is hereby acknowledged, do hereby grant

See New-land 10 311

unto the said Company, its successors, assigns and lessees, the right, privilege and authority to construct, reconstruct, maintain and operate its electric lines, including poles, wires, guys, stub poles, fixtures and apparatus upon, across, over, under and along property which we own or in which we have any interest, located in the Township of Manor, County of Lancaster, State of Pennsylvania, and upon, across, over, under and along the roads, streets or highways adjoining the said property, as shown on plan hereto attached and made a part hereof including the right of ingress and egress to and from the said lines at all times for any purposes aforesaid; also the right to cut down, trim and remove and keep cut down and trimmed any and all trees, brush or other undergrowth on said premises which, in the judgment of the said Company, may at any time hereafter with the construction, reconstruction, maintenance or operation of said lines, poles, wires, guys, stub poles, fixtures and apparatus, or menace the same.

Any poles or other facilities constructed hereunder may, without the payment of further consideration, be relocated on said property to conform to new or relocated highway limits.

PENNSYLVANIA POWER & LIGHT COMPANY may permit THE BELL TELEPHONE COMPANY OF PENNSYLVANIA, its successors and assigns, and others to attach to and use any or all of the poles owned by the said Company located on said property known as West Ridge Development.

PENNSYLVANIA POWER & LIGHT COMPANY may attach to and use any or all of the poles erected and owned by THE BELL TELEPHONE COMPANY OF PENNSYLVANIA and others on said property known as West Ridge Development, provided, however, that said Company first secures the necessary permission from THE BELL TELEPHONE COMPANY OF PENNSYLVANIA and others to make such attachments on its poles. WITNESS our hands and seals this 30 day of January, 1950.

Signed, Sealed and Delivered in the presence of:

John K. Shenk, Anna Booth

Harriet R. Caldwell
Owen B. Caldwell (SEAL)
Raymond F. Caldwell (SEAL)
Abram D. Mellinger
Vincent W. Nolt
Helen S. Nolt
Gladys I. Mellinger
Mildred H. Caldwell

COMMONWEALTH OF PENNSYLVANIA, COUNTY OF LANCASTER, Ss: On this 30 day of January, 1950, before me, a Notary Public for the Commonwealth aforesaid, commissioned for and residing in the City of Lancaster, County of Lancaster came the above named Harriet R. Caldwell & Owen B. Caldwell, Raymond F. Caldwell & Mildred H. Caldwell, Abram D. Mellinger & Gladys I. Mellinger, Vincent W. Nolt & Helen S. Nolt and acknowledged the foregoing instrument to be their act and deed, and desired the same to be recorded as such. WITNESS my hand and Notarial seal the day and year aforesaid.

My Commission Expires 1/18/51.

John K. Shenk, Notary Public (N.P. SEAL)
Lancaster, Pa.

Recorded February 23, 1950.

John K. Shenk Recorder.

224 JOHN B. WITMER, ET. UX. }
TO }
ELI DOUTRICH }

THIS INDENTURE, Made the first day of April, in the year of our Lord one thousand eight hundred and eighty-six BETWEEN JOHN B. WITMER and SARAH, his wife, of the Borough of Elizabethtown, in the County of Lancaster and State of Pennsylvania, of the first part and ELI DOUTRICH, of said Borough of the other part,

WITNESSETH, That the said John B. Witmer and Sarah his wife for and in consideration of the sum of Three Hundred and Twenty Five Dollars lawful money of the United States of America, unto them well and truly paid by the said Eli Doutrich at and before the sealing and delivery of these presents, the receipt whereof is hereby acknowledged, have granted, bargained, sold, aliened, enfeoffed, released and confirmed, and by these presents, do grant, bargain, sell, alien, enfeoff, release and confirm unto the said Eli Doutrich, his heirs and assigns,



PPL ELECTRIC UTILITIES SPECIFICATION FOR DISTRIBUTION VEGETATION MANAGEMENT

URS-3001-2019

EFFECTIVE April 1, 2019

TABLE OF CONTENTS

1.0	PURPOSE/SCOPE	3
2.0	RESPONSIBILITY.....	3
3.0	APPLICABILITY	5
4.0	ABBREVIATIONS AND DEFINITIONS	5
5.0	WORK SCHEDULE	6
6.0	PROPERTY OWNER NOTIFICATION AND REFUSALS	7
7.0	LINE CLEARANCE REQUIREMENTS	9
8.0	ENHANCED VEGETATION MANAGEMENT SPECIFICATION	12
9.0	HAZARD TREES	13
10.0	WETLAND VEGETATION MANAGEMENT	14

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**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 2 of 16

11.0 DISPOSITION OF CLEARED VEGETATION..... 14

12.0 HERBICIDE APPLICATIONS..... 15

13.0 COMPLIANCE AND EXCEPTIONS 15

14.0 RECORD RETENTION 15

15.0 REVISION HISTORY 16



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

1.0 PURPOSE/SCOPE

This document outlines the methods and procedures for Vegetation Management (VM) activities associated with the establishment and maintenance of PPL Electric Utilities Corporation (PPL EU) distribution circuits operating at or below 23 kilovolts.

2.0 RESPONSIBILITY

All Contractors performing vegetation management activities shall have a thorough knowledge of PPL EU specifications. A copy of this and other appropriate specifications (provided by the Contractor) must be on the work site at all times. The Contractor shall make reasonable accommodations for non-English speaking employees.

The Contractor Shall:

- Take the necessary safety precautions to prevent injury to human life or damage to property and shall carry on its operations with a minimum of interference to traffic or inconvenience to the public.
- Schedule a PPL EU Vegetation Contractor Orientation prior to the start of work.
- Create an account in PPL EU cSafety and follow up on all assigned action items.
- Actively participate in PPL EU Contractor Safety Meetings and share lessons learned.
- Send a representative to participate in PPL EU Business Partner EHS (Environmental, Health and Safety) Meetings.
- In the event of an on the job injury or Contractor caused electrical interruption follow the procedures outlined in the most recent version of the following documents:

“Vegetation Management Contractor Reporting Requirements for
Safety Incidents or Property Damage”

or

“Vegetation Management Contractor Reporting Requirements for
Electrical System Events”

- Follow all applicable rules and regulations of federal, state, and local agencies.
- Adhere to the requirements of the PPL Electric Utilities Herbicide Application Policy.
- Complete all work as specified by this document and individual work plans.
- Notify PPL EU of any work schedule changes which may be required.
- Make changes to work schedules only with PPL EU authorization.
- Be familiar with the latest version of PPL EU Work Unit Definitions for unit cost projects.



SPECIFICATION FOR DISTRIBUTION VEGETATION MANAGEMENT

URS-3001

Revision: 4/1/2019

Effective Date: 4/1/2019

Page 4 of 16

- Provide all supervision, labor and equipment necessary for the execution of the work. All personnel must be adequately trained in safety and vegetation management techniques including species identification. PPL EU Authorized Representatives reserve the right to reject any personnel or equipment that does not meet PPL EU standards.
- Keep all roads open to traffic, as per the most recent revision of The Pennsylvania Department of Transportation Publication 213 (Temporary Traffic Control Guidelines).
- Complete rework at the Contractors expense.
- Be familiar with all designated wetlands within any job site and keep mechanical equipment outside any such designated wetlands unless specifically approved by a PPL EU Environmental Professional. Upon approval by the PPL EU Environmental Professional, vehicles may only be taken into wetlands by using existing roads or through the use of temporary matting.
- Obtain prior consent from a PPL EU Environmental Professional before traversing any access roads which have been restored by PPL EU or any PPL EU Contractors.
- Re-grade and seed any deep cuts, ruts, stump holes, mounded areas, or general soil disturbance caused by the vegetation management operations when, in the opinion of the PPL EU Authorized Representative, they could cause future ground erosion, interfere with line access or have otherwise caused property damage.
- Without intentional delay, restore and stabilize (e.g. rake out, seed, and mulch) any earth disturbance created during vegetation management activities. If the earth disturbance results in an agency inspection or formal complaint, the PPL EU Environmental professional shall be notified by phone within 4 hours of the event.
- Clean up all debris and rubbish resulting from work as the work progresses, leaving the area in a condition satisfactory to the PPL EU Authorized Representative.
- Be financially responsible for all repairs to PPL facilities resulting from damage caused by the Contractor, their agent, or employees.
- Resolve all customer damage complaints related to work performed by the Contractor's employees.
- Report all spills immediately to the PPL Regional Forester. The Contractor shall consult with PPL Environmental Representatives and shall be responsible for spill remediation.
- Take adequate care to assure that gates are not left open. If existing fences or gates are in a state of disrepair prior to the start of work, the property owner shall be so notified. In all cases the Contractor shall close and lock all gates behind them.
- Submit weekly distribution crew locations to the PPL EU Distribution Control Center.
- Submit daily crew locations to the Regional PPL EU Authorized Representatives.
- Ensure that computers, tablets, and smart phones provided by the Contractor meet the most current hardware requirements for use with PPL's current work management software.



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

2.1 Certifications and Licenses

All General Foreman, Supervisors and Work Planners shall be ISA Certified Arborists and hold a current PA Department of Agriculture Commercial Pesticide Applicator license with Category 10 (Right of Way and Weeds). Prior to start of work and on an annual basis the Contractor will post verification of ISA Certification and PA Pesticide Applicator Certification for all applicable employees on the EU Vegetation Management Contractor Portal. Exceptions to this policy must be approved in writing by the PPL EU Manager of Vegetation Management.

3.0 APPLICABILITY

The provisions outlined in this specification and additional referenced documents within shall be the primary methods and procedures implemented by all Contractors performing vegetation management activities directly or indirectly for PPL Electric Utilities. Changes to PPL EU Vegetation Management specifications may be made from time to time in order to stay current with business objectives and regulatory environments. Changes to PPL EU Vegetation Management specifications shall be made at the sole discretion of PPL EU. Any deviation from PPL EU Vegetation Management methods and procedures must be approved in writing by a PPL EU Authorized Representative or the PPL EU Manager of Vegetation Management.

4.0 ABBREVIATIONS AND DEFINITIONS

ANSI	American National Standards Institute
DBH	Diameter at Breast Height
DEP	Department of Environmental Protection
E&S	Erosion and Sedimentation
EU	Electric Utilities
GF	General Foreman (Contractor Representative)
ISA	International Society of Arboriculture
kV	kilovolt = 1000 volts
NPDES	National Pollutant Discharge Elimination System
OGC	Office of General Counsel
OSHA	Occupational Safety and Health Administration
PA	The Commonwealth of Pennsylvania
PPL EU	PPL Electric Utilities Corporation
RMC	Records Management Coordinator
ROW	Right-of-way
DCC	Distribution Control Center
VM	Vegetation Management



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

The term “**Contractor**” refers to a business, employee, or agent thereof executing vegetation management activities under contract for PPL EU in accordance with this specification and all other applicable PPL EU policies and procedures. Contractor also refers to 3rd party work planners.

The term “**PPL EU Authorized Representative**” refers to an individual is who given authority by the PPL EU Manager of Vegetation Management to make decisions and perform quality assurance inspections on behalf of PPL EU.

Tree – A plant with a woody stem equal to or greater than 6” DBH (4.5’ from ground level on the uphill side). A tree that forks at or above breast height shall be counted as one tree. If a tree forks below breast height each stem shall be counted as a separate tree.

Brush – A plant with a woody stem less than 6” DBH.

5.0 WORK SCHEDULE

Annual scopes of work shall be scheduled in an order mutually agreed upon by the Contractor and the PPL EU Authorized Representative. Poor performing circuits shall be prioritized and regulatory time of year restrictions shall be observed. The Contractor shall submit a weekly progress report, by region and circuit to PPL EU Vegetation Management. Hourly work shall be assigned by and executed to the satisfaction of the PPL EU Authorized Representative.

5.1 Working Hours

The Contractor shall provide coverage within their assigned region(s) for no less than 8 hours per day Monday through Friday up to 40 hours per week excluding PPL holidays. Make up time on Saturdays must be pre-approved by the PPL Regional Forester. Work may not be scheduled on Sundays, PPL Holidays, or a Saturday that falls the day after a PPL holiday or before a PPL holiday that falls on a Monday. PPL will not pay overtime rates for schedule changes unless specifically requested by and approved by PPL EU Regional Forester or the PPL EU Manager of Vegetation Management.

5.2 Emergency Call Outs

The Contractor shall be responsible for responding to after-hours emergency call outs and storm work as directed by PPL EU. The requested tree crew(s) shall arrive at the requested work location no later than 1.5 hours after initial call. The Contractor shall provide a weekly on-call roster identifying the Contractor’s on-call personnel who will coordinate tree crew call outs.



A storm/emergency lift crew should consist of a minimum of three persons, one of whom must be a climber. Crew foreman should be a working foreman. They should be capable of satisfactorily supervising all work performed by their crew. In addition to supervision, the crew foreman will be expected to perform the skills required of any member of their crew.

5.3 Equipment and Tools

All trucks, chippers, saws, and other equipment shall be maintained so that the quality and quantity of the work to be performed is not impaired. PPL reserves the right to request equipment exhibiting excessive mechanical problems be replaced. All trucks shall be equipped with a complement of tools such that all work scheduled can be performed in an efficient, professional, and productive manner. Routine equipment maintenance by the Contractor during normal working hours shall not be billable time to PPL. All Contractor vehicles, including supervisor vehicles shall be appropriately marked to establish the association to the Contractor. Privately owned vehicles belonging Contractor employees are not be permitted on a job site.

6.0 PROPERTY OWNER NOTIFICATION AND REFUSALS

6.1 General Notification Requirements

- Contractor personnel directly involved in contacting customers are required to have identification, complete with photograph associating them with their employer and/or must possess a PPL EU Contractor Employee badge issued by PPL EU¹. Identification shall be prominently displayed while engaged in customer contact activities.
- The Contractor may begin operations only after notification to proceed is received from PPL EU.
- Property owner approval is required for tree removals and herbicide applications.
- The preferred method of notification is face to face contact. If the property owner is not home a PPL provided door hanger and brochure shall be left for properties where the only work is maintenance trimming and no additional follow up would be required.
- Pre-planners are responsible for setting appropriate expectations with PPL customers. The Contractor responsible for notifying customers shall be responsible for all complaints and claims resulting from inadequate notification.

¹ Refer to Contractor Badging Process in the latest version of PPL EU Vegetation Contractor Orientation document.



SPECIFICATION FOR DISTRIBUTION VEGETATION MANAGEMENT

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 8 of 16

6.2 Customer Notification for Unit Cost Projects²

Customer notification for planned work shall be executed by a third party vendor contracted by PPL EU. The line clearance Contractor shall be responsible for notifying customers of any added work units after obtaining approval of the added unit by a PPL EU Authorized Representative. The line clearance Contractor must communicate all work plan changes to the landowner including the use of off-road vehicles and special equipment.

6.3 Customer Notification for Cost per Mile, Lump Sum, and Capital Projects

The Contractor shall be responsible for notifying all property owners and other stakeholders of their intent to perform vegetation management activities unless such notification has been completed and provided in writing to the Contractor by PPL EU.

6.4 Property Owner Refusal Process

The following process shall be followed when a customer/property owner refuses to allow work to proceed. **In all cases, the Contractor may not negotiate any work that is below PPL EU specifications.**

A. Refusals Originating During the Planning Phase

Before line clearance activities begin, if a property owner refuses access, trimming, or hazard tree removals, the work planner shall notify the responsible PPL EU Authorized Representative and record the unit as a refusal. For non-unit based projects the work planner shall prepare a written Line Clearance Refusal Form. After receiving proper notification from the work planner, the PPL EU Authorized Representative shall contact the customer and attempt to resolve the refusal before work begins. If the refusal relates to work procedures, the line clearance Contractor General Foreman (GF) or Supervisor will be responsible for explaining to the customer how the work will be completed.

B. Refusals Originating During the Work Execution Phase

The Contractor General Foreman (GF) or Supervisor shall make every effort to successfully resolve the refusal before turning it over to PPL EU. For unit price projects, if the refusal relates to why the work is required, the line clearance Contractor shall immediately notify the third party work planner. The work planner shall be responsible for explaining why the work is required.

² Refer to the latest version of PPL EU Work Unit Definitions.



6.5 Permits

The Contractor shall maintain copies of all current and applicable permits obtained by PPL EU and/or the Contractor at all job sites.

Work may not begin within state highway limits without the correct county specific permit obtained by PPL EU from the Pennsylvania Department of Transportation.

All planned vegetation management activities on state and federal lands³ shall be identified by the Contractor before starting work planning for the upcoming trim year. For each work location, easement language shall be reviewed by the Contractor to identify restrictions. If the land is under license agreement, the Contractor planning the work will prepare all appropriate notification materials including draft permit applications for PPL EU review. The PPL EU Authorized Representative shall submit the final application to the federal/state agency. Vegetation management activities may not commence until PPL WU receives confirmation from the applicable agency that all notification and permit requirements have been satisfied. Any Contractor who begins work on state or federal land without the express permission of the PPL EU Authorized Representative will be responsible for paying all applicable fines as well as being subject to possible contract termination.

Prior to start of work the line clearance Contractor shall be responsible for obtaining all other permits and licenses, at the sole cost of the Contractor, as required to perform the contracted work. The Contractor is also responsible for notifying municipal foresters and/or shade tree commissions before starting work.

7.0 LINE CLEARANCE REQUIREMENTS

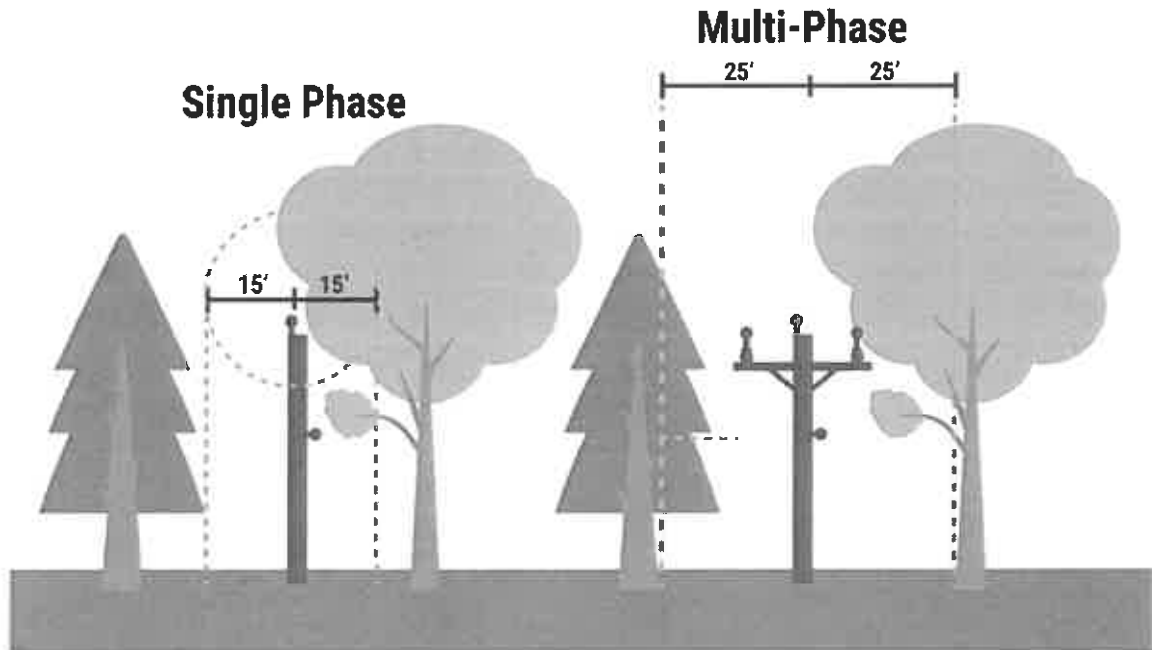
All trees requiring pruning shall be pruned so that PPL rights-of-way are maintained either to the limits of the defined right-of-way agreement, the previously established clearance or the desired maximum clearance, whichever is greater. Emphasis shall be placed on controlling all incompatible vegetation within this area. Trees that require pruning adjacent to PPL's multi-phase electric facilities shall be maintained so that overhanging vegetation is removed from above the conductor.

³ State and Federal lands include but are not limited to lands owned or managed by the Pennsylvania Game Commission, Pennsylvania Department of Conservation and Natural Resources, Pennsylvania Fish & Boat Commission, The National Park Service, The Appalachian Trail Conservancy, and US Fish & Wildlife.

Listed below are the desired maximum clearances on the PPL system:

Multi-Phase shall be pruned to the full extent of the established tree line, not to exceed 25' from centerline and shall be ground to sky pruning.

Single Phase shall be pruned to the full extent of the established tree line, not to exceed 15' from centerline, to a distance of 15' above the line.



7.1 General

- All trees will be pruned by the guidelines detailed in the most current revision of the American National Standard for Tree Care Operations (ANSI A300). All pruning cuts should be made back to lateral branches at least one-third the diameter of the limb being removed or to the branch collar of the parent stem. Every effort shall be made during the pruning process, to prevent damage to surrounding property and/or the tree itself.
- A minimum number of cuts shall be utilized to achieve required clearances. Cuts should be restricted to large diameter branches made well within the crown or along the main stem. Shaping through the removal of small diameter branches in the outer crown shall be avoided.



SPECIFICATION FOR DISTRIBUTION VEGETATION MANAGEMENT

- Tree gaffs or hooks are not permitted in any maintained yard tree to be pruned. Tree gaffs or hooks are permitted in forested non-maintained areas, unless objected to by the property owner and in any tree to be removed.
- Small compatible shrubs and other desirable low-growing vegetation shall be preserved to the greatest extent practical.
- Non-compatible brush shall be treated with herbicide. If property owner refuses herbicide, non-compatible brush shall be cut to the ground. Non-compatible brush may not be trimmed.
- All vegetation (including vines) within a five-foot radius of a pole or structure shall be eliminated in accordance with the PPL EU Vegetation Management Herbicide Application Policy.
- All dead or structurally weak limbs which could fall or blow into the conductor shall be removed regardless of their distance above the conductor.
- When performing work on an assigned circuit, the Contractor must clear for all distribution facilities on the same structure.
- Distribution facilities within transmission corridors maintained by PPL EU shall be maintained during the next transmission trim cycle.
- All vehicles, used to access off road rights of way on Pennsylvania State Game Lands should be power washed prior to access to reduce the spread of invasive species. Contractors will be responsible to maintain documentation of the power washing.

Conifer Pruning - To preserve the health and integrity of conifers stripping of all limbs from ground to sky pruning should be avoided. If no laterals exist to achieve desired clearance, pruning to the main stem of tree may be required. Some species such as White Pines may require more aggressive pruning.

7.2 Pruning Methods

Directional Pruning is the preferred pruning technique. In order to achieve necessary tree-to-conductor clearances, entire branches and/or laterals growing towards the conductor(s) are removed. All cuts shall be made back to lateral branches that grow away from the conductor(s). When required to preserve vertical clearance above the conductors, side branches should be pruned back to laterals growing away from the conductors.

Crown Reduction may be utilized when a tree is located under the conductors and directional pruning is not feasible. In this situation, apical branches are pruned back to reduce crown height and achieve necessary tree-to-conductor clearance. Branches containing sprouts from old topping cuts should be removed.

Side pruning is utilized on trees growing next to conductors. When the parent stem of a tree is at the edge of the clearing zone, limbs protruding into the clearing zone should be removed at the branch bark collar on the main stem.



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 12 of 16

Mechanical pruning will be acceptable on rural cross country lines as noted in ANSI A300.

7.3 Secondaries, Service Wires, and Streetlights

As part of regular maintenance the Contractor shall only clear secondaries directly below overhead primary wires. Line clearance for pole to pole secondaries is not required as a part of regular maintenance. The Contractor shall report to PPL any observed damage to secondaries and service wires and all customer requests or inquiries regarding line clearance for secondaries.

Line clearance for service wires from pole to house is the customer's responsibility. Customers may call PPL to request a disconnect/reconnect. Make it clear to the customer that they are responsible for hiring their own tree service to be on site when the outage is scheduled.

Clearance for street light illumination and line clearance for streetlight wires may only be performed with prior approval from a PPL EU Authorized Representative.

8.0 ENHANCED VEGETATION MANAGEMENT SPECIFICATION

Under the direction of a PPL EU Authorized Representative, Enhanced Vegetation Management clearances may be implemented when it is necessary to establish or re-establish an extended clearing zone.

Single Phase shall be pruned to the full extent of the established tree line, not to exceed 15' from centerline and shall be ground to sky pruning.

Brush below the conductors shall be treated or removed in accordance with the PPL EU Herbicide Application Policy. The Contractor shall not trim brush without direct approval of a PPL EU Authorized Representative.

Trees on the opposite side of any thoroughfare, where standard line construction exists (not alley arms) shall be pruned to the centerline of the road. Fast growing trees (ex. Silver maples, Willows and Chinese Elms) may require additional clearance.

8.1 New Construction

When initially clearing for new distribution, all vegetation shall be cleared from the limits of the right-of-way with the exception of grasses or non-woody plants. This is necessary to both



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 13 of 16

establish the extent of the right-of-way and to accommodate the construction activities that will occur within the right-of-way.

Initial clearing of a new distribution right-of-way must adhere to these requirements:

- A. All cut stumps and brush stubble shall be treated with an appropriate herbicide treatment whenever easement rights or property owner permission allow. All debris shall be handled in accordance with this document or as specified by a PPL EU Authorized Representative.
- B. The edge of the right-of-way shall be trimmed "Ground to Sky". Ground to sky means that all branches overhanging into the easement area shall be removed. All required tree pruning shall conform to the latest approved edition of ANSI A-300.
- C. Hazard trees outside the easement area shall be brought to the attention of the responsible PPL EU Authorized Representative. Property owner permission will be required before a hazard tree is removed.

9.0 HAZARD TREES

Hazard trees are a subset of danger trees as defined in ANSI standards (ANSI 300 Part 7). Accordingly, **a danger tree** is any tree that can strike the conductor. **A hazard tree is a danger tree which is structurally unsound** and therefore presents an increased risk to safety and reliability. A PPL EU Authorized Representative will work with vegetation management Contractors to approve the removal of hazard trees during line clearing/maintenance operations. The Contractor shall investigate all trees along the edge of the right-of-way (including the opposite side of the road for lines adjacent to a road) for hazard trees.

All stumps shall be cut as low to the ground as possible and a stump treatment if applicable shall be applied.

Hazard Trees are defined as trees having one or more of the following characteristics:

- 1. Decay, cankers, and or hollows present in the main trunk of the tree.
- 2. Animal and or mechanical damage present in the main trunk of the tree showing visible signs of decay to the extent that it affects its structural integrity.
- 3. Disease and or insect damage that has affected the tree to such an extent that the trees survival to the next maintenance cycle is in doubt.
- 4. Root systems exposed to such an extent that the integrity of the tree is reduced.
- 5. Leaning and or over-crowned trees that cannot be pruned without removing their tops.
- 6. Splits and or cracks that are to such an extent that the splitting is affecting the integrity of the tree. Trees with Horizontal cracks should be made a high priority for removal.



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 14 of 16

7. Dead or dying trees that can strike the conductor or pass within the minimum conductor clearances shall be removed.
8. Species known to be weak wooded and or poorly rooted and therefore prone to an increased risk of failure.
9. All co-dominant stems should be considered for removal.
10. A “trapped” or cycle buster tree which due to the species characteristics cannot be effectively trimmed to achieve clearance within the given maintenance cycle.

10.0 WETLAND VEGETATION MANAGEMENT

Wetlands are defined in Section 404 of the Federal Clean Water Act and PA DEP’s Chapter 105 regulations as areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions including swamps, marshes, bogs, and similar areas.

Note: Wetlands may have standing water, have plants that are adapted to wet conditions, and/or contain hydric soils. Not all wetlands have visible water or classic wetland plants (i.e. cat tails). The Contractor shall use a combination of the National Wetlands Inventory and actual field observations to make final wetlands determination.

- “Drop and lop” shall be the preferred method for the disposal of woody debris in wetlands. The intention of drop and lop is to minimize impacts to the wetland by leaving woody debris where it falls.
- Special care will be made to ensure that felled trees, logs, slash, brush, and chips do not impede any running water or seasonally dry waterways or drainage culverts. Slash will be compacted in such a manner that it will not be carried away by high water.
- Mechanical Equipment shall not be used in wetlands unless specifically approved by a PPL EU Environmental Professional. Upon approval by the PPL EU Environmental Professional, vehicles may only be taken into wetlands by using existing roads or through the use of temporary matting.

11.0 DISPOSITION OF CLEARED VEGETATION

All disposal operations shall closely follow clearing operations to keep work confined to one area and to prevent unsightly and unsafe conditions. The method of disposal shall be at the discretion of the Contractor; however, the work must be done to the satisfaction of the property owner. Wood may not be cut into firewood lengths without prior authorization from a PPL EU Authorized Representative.

11.1 Chipping



**SPECIFICATION FOR DISTRIBUTION
VEGETATION MANAGEMENT**

URS-3001
Revision: 4/1/2019
Effective Date: 4/1/2019
Page 15 of 16

All slash shall be fed through a mechanical chipper immediately after cutting and hauled away. With property owner permission, chips may be randomly scattered on the right-of-way, except in the following areas: fields, along city streets, park areas, within wetlands, and on the banks of streams or ponds. Brush piles may not be left overnight without direct property owner permission.

11.2 Drop and Lop

In non-maintained areas vegetation shall be cut so that it falls toward the edge of the right-of-way. The floor of the right-of-way shall be kept clear of any debris within 5-10 feet from the centerline of the electric line. All roads and paths shall be kept clear of all debris. All debris must be lopped/mulched (diced or cut up with a chain saw) and scattered to a height not to exceed 18 inches above the level of the ground.

12.0 HERBICIDE APPLICATIONS

All Herbicide Applications shall be performed in accordance with the latest version of "PPL EU Vegetation Management Herbicide Application Policy"

13.0 COMPLIANCE AND EXCEPTIONS

In addition to the exceptions specifically authorized herein, the PPL EU Manager of Vegetation Management, or his or her designee, may from time to time grant an exception to PPL EU's documented vegetation maintenance strategies, procedures, processes or specifications related to this document for good cause, including, but not limited to, such factors as safety conditions, weather, ice, flooding, emergencies, disasters, labor disputes, or legal limitations. Any such exceptions shall be in writing.

14.0 RECORD RETENTION

14.1 Record retention shall be consistent with the PPL Corporation Records Management Project Retention Schedule.

14.2 This document shall be reviewed annually by the Manager of Vegetation Management in Electric Utilities.

14.3 The review shall be facilitated by the Records Management Coordinator (RMC).

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SPECIFICATION FOR DISTRIBUTION VEGETATION MANAGEMENT

URS-3001

Revision: 4/1/2019

Effective Date: 4/1/2019

Page 16 of 16

15.0 REVISION HISTORY

REV 1 - 4/1/2019	Updates to formatting and clarification of Line Clearance Requirements
Prepared by:	
	Stephen Dahl Regional Forester
Prepared by:	
	Patrick Eisenhauer Regional Forester
Reviewed by:	
	Nicholas D'Amico Regional Forester
Reviewed by:	
	Justin Mease Regional Forester
Reviewed by:	
	Michael Trotta Regional Forester
Approved by:	
	Ryan J. Yanek Manager – Vegetation Management
Original – 1/1/2019	Issued w/Original Contract
Prepared by:	
	Stephen Dahl Regional Forester
Approved by:	
	Aaron Dom Manager – Vegetation Management