

2024 Execution Kick Off and Training

Focus Tree Inspection
Tree Removal Inventory
Vegetation Management Outage Mitigation
Annual Refresher





Sign In

Please be sure to sign in to receive course credit for the following classes

- VEGM-9073
- VEGM-0111
- VEGM-0112
- VEGM-0114

Safety and Security Orientation

Assign safety roles if in person

Psychological Safety

- Practice transparency and vulnerability
- Avoid blame; learn from mistakes
- Show care and appreciation
- Invite new ideas from all
- Disagree respectfully and with curiosity
- Prioritize mental health by encouraging self-care



Fire

- Exits, escape routes, evacuation
- Fire ext.



Earthquake

- Drop, cover, hold



Medical Emergency

- First aid/CPR
- 911/share location
- AED

Security:

- Active shooter—get out, hide out, take out, call out
- Maintain situational awareness to mitigate hazards



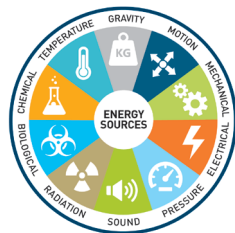
Ergonomics

- Proper ergo
- 30/30: move for 30 secs every 30 min



Don't report to work if testing positive for COVID-19

Energy-Based Hazard Wheel



[SIF prevention field guide](#)



On the road, off the phone



Park in a safe location



Ground Rules

Create an environment where employees feel psychologically safe to speak up

Trustworthy

- Act with genuine humility
- Vulnerability is encouraged
- It's okay to say "I don't know"

Empathetic

- Listen for understanding
- Assume positive intent
- Encourage/provide space for all to participate

Curious

- Seek alternative perspectives
- Explore unintended consequences

Tenacious

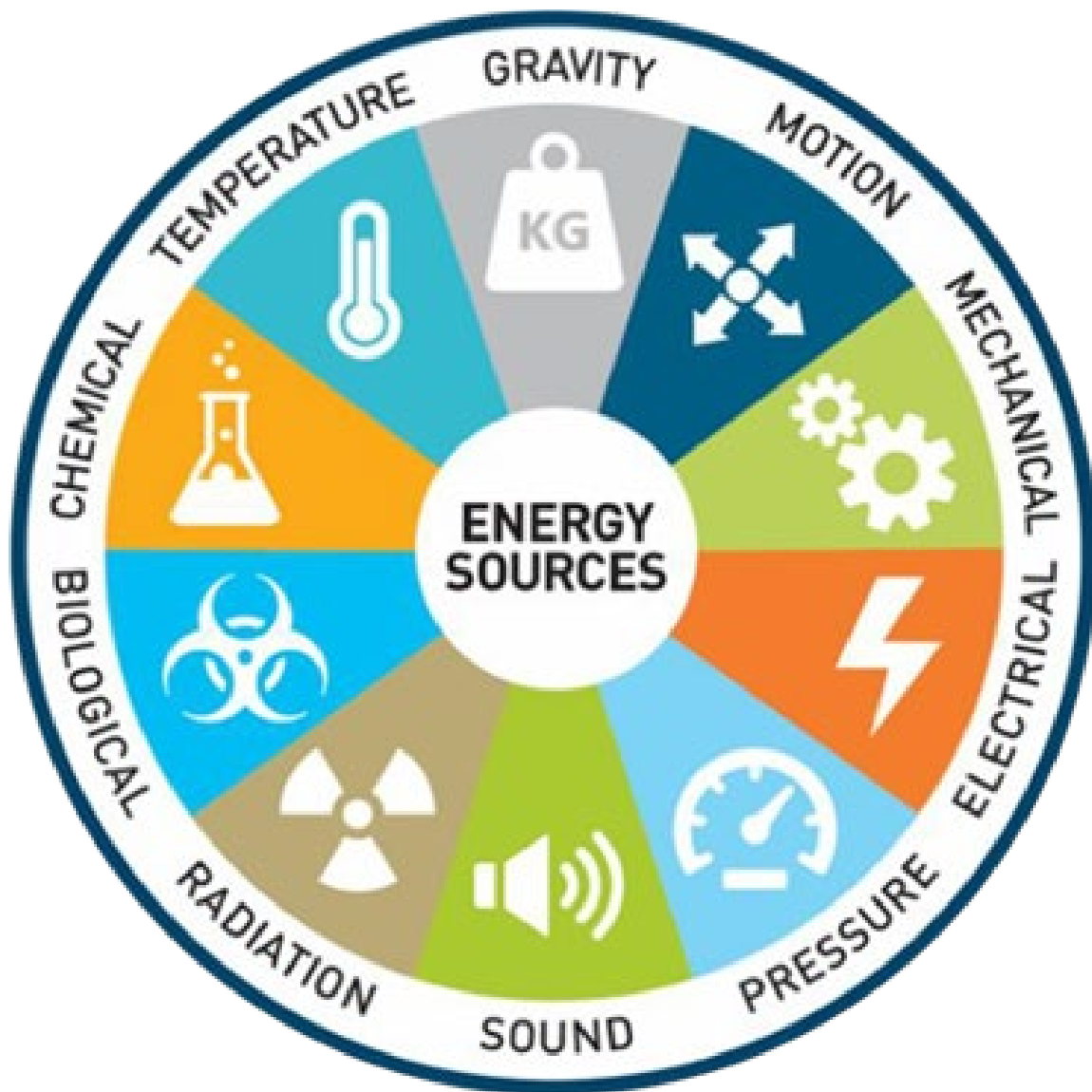
- Think big
- Have fun!

Nimble

- Accept/learn from mistakes
- At closing, review MOLOSA and action items

Owners

- Own decisions and outcomes
- Stop and regroup if off-course
- Clarify desired outcomes and decision-making process













What energy is a concern on your job site?

KEYS TO LIFE



Which Key to Life are you most concerned about?

-  **1** Conduct pre-job safety briefings prior to performing work activities.
-  **2** Follow safe driving principles and equipment operating procedures.
-  **3** Use personal protective equipment (PPE) for the task.
-  **4** Follow electrical safety testing and grounding rules.
-  **5** Follow clearance and energy lockout/tagout rules.
-  **6** Follow confined space rules.
-  **7** Follow suspended load rules.
-  **8** Follow safety at heights rules.
-  **9** Follow excavation procedures.
-  **10** Follow hazardous environment procedures.



Stop work authority



STOP WORK AUTHORITY



Agenda

Distribution Inspection Procedure (DIP) Refresher

Focus Tree Inventory (FTI) Introduction

Tree Removal Inventory (TRI) Introduction

Vegetation Management Operational Mitigation (VMOM) Introduction

Additional Information

- Procedure updates
- New training structure
- New ISA opportunities
- Helpful tools

Distribution Inspection Procedure - Refresher



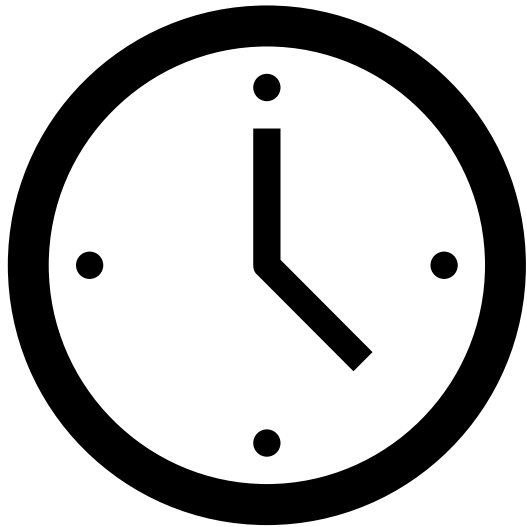


Certifications Survey

Based on the various expertise requirements on various programs, and as part of our training opportunities, the leadership team is asking that ALL employees scan and complete.



TD-7102S Standard Note



- Beginning in the 2024 inspection cycle, **unless a constraint or external factors is documented**, tree work shall be completed within one year of identification.

Work is to be completed prior to vegetation breaching compliance.

During the Work Cycle, vegetation pruning and felling of trees is performed to ensure compliance with the regulatory requirements and recommendations



TD-7102S-B005 Standard/Procedure

The Vegetation Management (VM) Second Patrol inspection area has been updated to be more risk informed.

Previous Inspection Areas TD-7102P-01 Appendix C

Jurisdictional

- State Responsibility Area
- Federal Responsibility Area
- Wildland Urban Interface

Risk

- High Fire Threat District
- High Fire Risk Area

Miscellaneous

- Fire Hazard Severity Zone

Second Patrol – Inspection Area (TD-7102S-B005)

Risk

- High Fire Threat District (HFTD)
- High Fire Risk Area (HFRA)

Starting in the 2024 inspection year, the Second Patrol area will be within HFTD and HFRA

The Wildfire Risk Governance Steering Committee approved this change on July 13, 2023



What to inspect and handling an inspection that cannot be completed (1/2)

The VMI must inspect the following:

- 1 Vegetation **that has or may encroach the MDR**, based on anticipated growth rates before the next annual work cycle (see Appendix A, Minimum Distance Requirements [MDR]) and considering normal weather patterns for the local area or line position or line conditions
- 2 Vegetation (categorized as either a whole tree or portion of tree) that **may fall into or otherwise impact** PG&E electric facilities (any PG&E owned electrical conductors, neutral or apparatus on a pole, the pole, or any pole supporting wires with voltage levels – excludes service drops)
- 3 Any **vegetation that is causing significant strain** or abrasion to the secondary conductors (excluding service drops)



What to inspect and handling an inspection that cannot be completed (2/2)

The VMI must inspect the following:

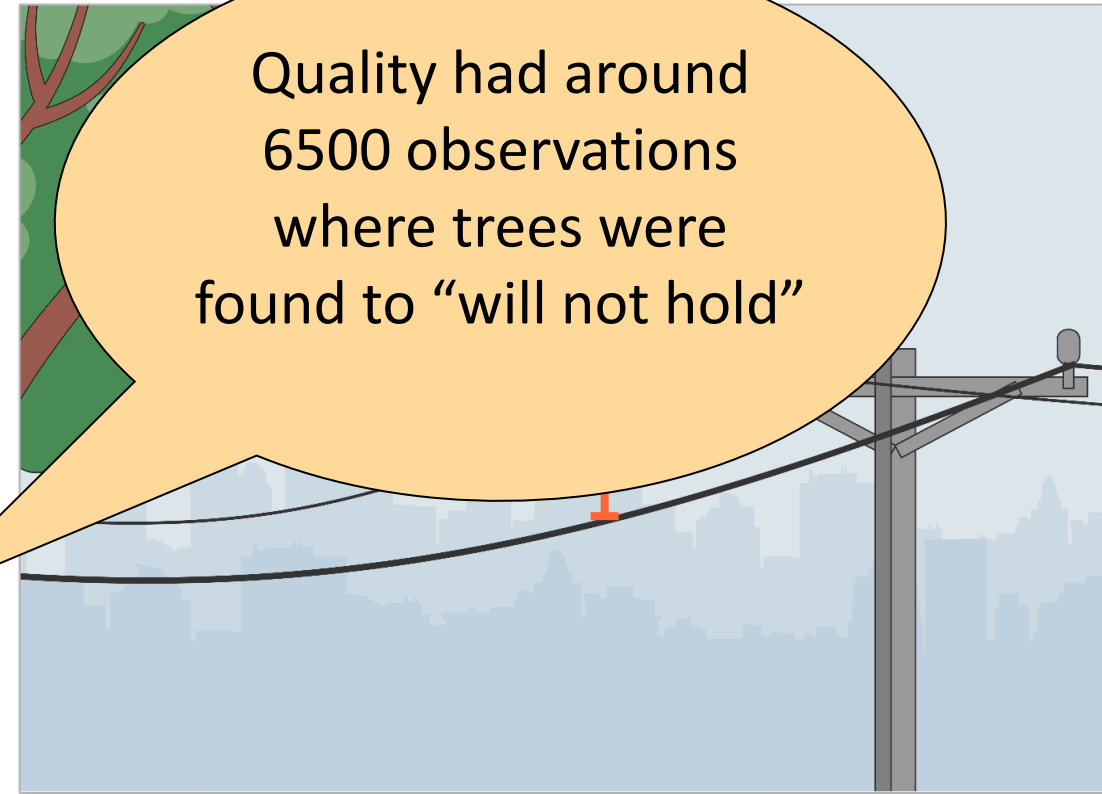
- ④ All **idle lines** as if they are energized
- ⑤ Distribution underbuilt for vegetation that **could fall into transmission structures**, guys, or poles, regardless of right-of-way (ROW) or easement width
- ⑥ Areas **outside fenced areas**, including portions of distribution line span crossing substation fence at substations, generation stations, or switchyards in the inspection area
- ⑦ Enhanced Vegetation Management (**EVM**) **segments** that have been claimed and reported as part of the EVM WMP commitments (refer to Attachment 2, “EVM Commitments”)

If an inspection cannot be completed because of constraints or external factors, the VMI must record the type of constraint or external factors involved in the system of record



Minimum Distance Requirements

Jurisdiction	Local Responsibility Area (non-HFTD)	High Fire-Threat District (HFTD)	State Responsibility Area (SRA)	Federal Responsibility Area (USFS property)
Relevant time of year	Applicable year-round	Applicable year-round	Applicable during fire season	Applicable during fire season
Regulation	General Order 95, Rule 35	General Order 95, Rule 35	Public Resources Code 4293	Public Resources Code 4293
Min. Distance Rqmt. for Primary Conductors >750 volts	18-inches	4-feet	4-feet	4-feet
Min. Distance Rqmt. for Secondary Conductors <750 volts	Prune if strain or abrasion to the conductor is observed			



Service drops and secondary conductors

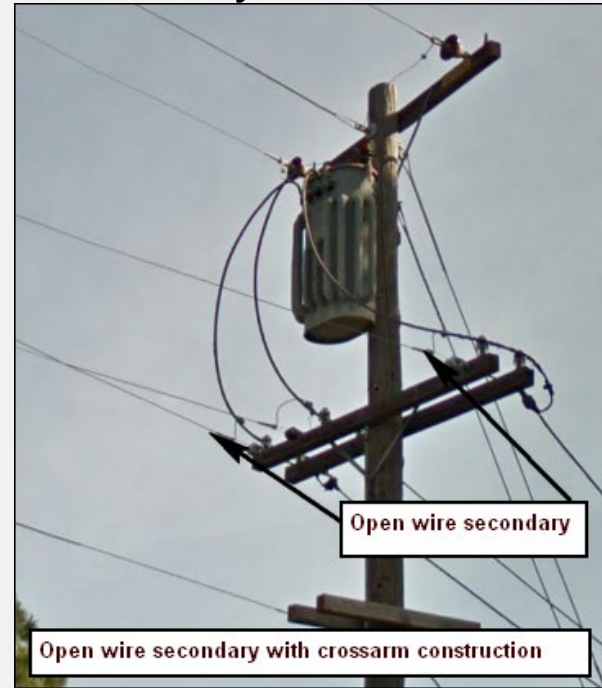
Secondary Conductor:

- Conductor operated at a transformer's secondary voltage (<600 volts) to distribute power to end-used customers

Service Drop:

- Conductor connects PG&E's secondary system to the customer's service panel

Secondary conductors



Service drop





Rider poles and secondary splitting into multiple services

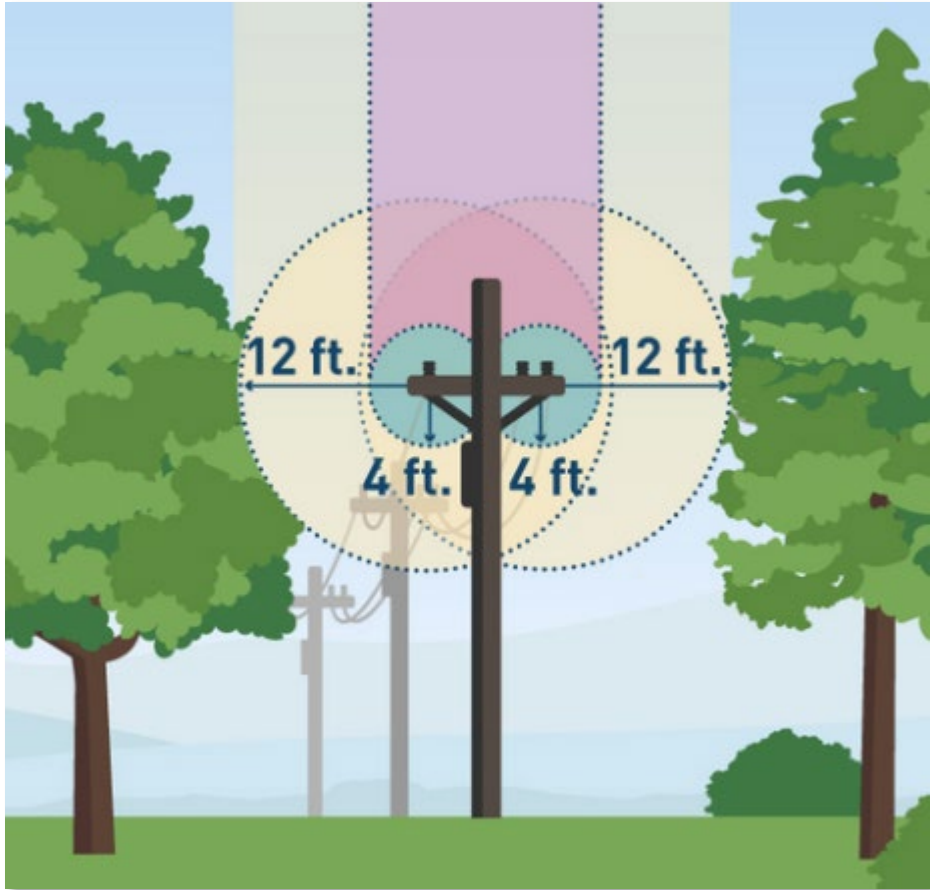
Rider pole



Secondary splitting into multiple services



Attachment 2 – EVM WMP Commitments



- The EVM Program **concluded at the end of 2022**
- Routine VM patrols now **maintain the enhanced clearances achieved** in EVM, PG&E **has established routine maintenance requirements for electric distribution circuits** where EVM scope clearances have been performed (in HFTD designated areas) and passed by work verification
- All electric distribution circuits where the EVM scope clearances have been previously achieved must be prescribed for **no less than 12 feet (ft.) of clearance**
- All overhanging vegetation that will **encroach the 4-ft overhang plane** before the next annual inspection cycle must be prescribed to remove all overhangs



Idle Lines Bulletin

When inspecting and recording vegetation around idle distribution lines, VMIs must:

- ① Inspect idle lines as if energized
- ② List trees for work in idle line spans as regular priority
- ③ Do not use the Priority Tag Procedure for trees requiring only radial clearance around idle lines
- ④ If a tree is in imminent danger of failure into PG&E facilities or if a tree is causing strain or abrasion on idle PG&E lines, then use the Priority Tag Procedure and list
- ⑤ the tree as Priority 2 (*refer to TD-7102P-17 Vegetation Management Priority Tag Procedure*)





How to identify an idle line or facility

***Note:** the criteria shown below are non-exhaustive. Please use your professional judgement to identify an idle line or facility*

Idle Line Definition: **One or more spans of overhead or runs of underground conductors** together with their supporting poles or structures and appurtenances that are located outside of buildings and **do not serve customer load**. Idle lines can range from a single service to an entire line section

Identification criteria:

- Jumpers have been cut on all phases
- Conductors have been removed
- Insulators are undersized for the line
- Pole tops have been removed
- First Line Supervisor knowledge
- Documentation or field observations that an idle line is energized at distribution voltages
- Documentation or field observations that an idle line is energized at transmission voltages

Note: When encountering broken idle poles and floating conductors, please reference TD-7102P-09 for guidance



Idle Facility Field Conditions and Investigation Priorities

Note: The details shown below are non-exhaustive. Please use your professional judgement to identify an idle line or facility, and reference TD-2459S-B001 for further information

Condition	Action	Investigation Priority
Safety Situation/Risk	Mitigate hazard and make safe, which may include de-energizing Initiate an IF and / or Electric Corrective Notification	High
Idle transformers that do not have a blue sticker indicating a polychlorinated biphenyl (PCB) content of less than 5 parts per million (ppm)	If High priority, mitigate hazard and make safe, which may include de-energizing Initiate an IF Notification	High – Medium-Low
Future work required to maintain existing idle facility	Initiate an IF Notification for investigation	High – Medium-Low
PG&E and Modesto Irrigation District (MID) service areas	Initiate an IF Notification for investigation	Medium
Idle facilities in raptor concentration zones (RCZs) with suitable habitat to support raptors	Initiate an IF Notification for investigation and a Priority B, 3-month EC Notification to de-energize the facility	Medium – Low
Oil-filled equipment (e.g., ground waters, sewers, grazing lands)	Initiate an IF Notification for investigation Blue sticker on Notification indicates a PCB content of less than 5 ppm	Medium
Idle facility in Tier 2 & 3 Fire Zone	Initiate an IF Notification for investigation and a Priority B, 3-month EC Notification to de-energize the facility	Medium
Potential use for agricultural pumps or vacant buildings	Initiate an IF Notification for investigation	Low
Entire primary tap is identified as idle and is unfused	Initiate an IF Notification for investigation and a Priority B, 3-month EC Notification to de-energize the line	Low



Performing an Inspection

Go to first location and perform a Level 1 inspection of the vegetation surrounding the facility, look for the following:

**Overhead electric distribution
primary and secondary conductors
and facilitates**

**Distribution underbuilt spans for
any of the above conditions**

**Tree or limbs is more than >6" in
diameter at line height, >10" in
DBH, 6-48" of a conductor (in
HFTD/SRA) or 6-18" of a conductor
(in LRA)**



Limited Visual Assessment Overview (Level 1)

Definition: *A visual assessment from a specified perspective such as foot, vehicle, or aerial (airborne) patrol of an individual tree or a population of trees near specified targets to identify*

[Assessment Video](#)



Level 1 visual inspection criteria

Electric distribution conductor criteria

On overhead electric distribution primary and secondary conductors and facilities (excluding service drops), identify:

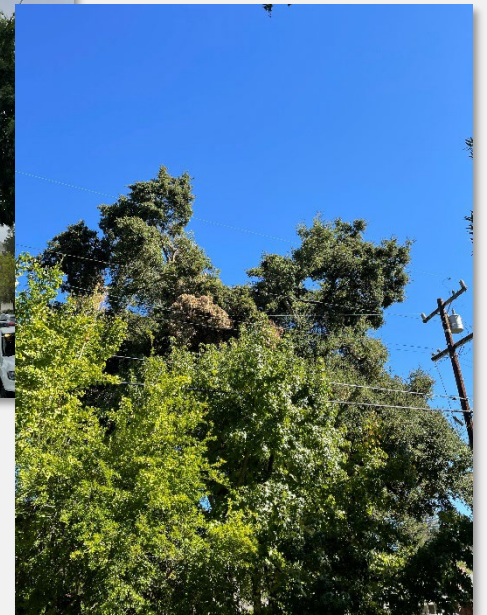
- ① Vegetation that will encroach the MDR (see Appendix A, Minimum Distance Requirements (MDR)) before the next annual work cycle

- ② Any vegetation that has already encroached the MDR
Note: For trees that may fall into or contact the line, identify:

Dead trees or portions of tree that are rotten or weakened by decay or disease Rotten or diseased portions of otherwise healthy trees that overhang or lean (due to outside influences: soil structure, soil heaving, weather conditions, cracking, breaking, etc.) toward the line (refer to Appendix E, “Information About Tree Lean”)

Quality had around 6300 observations where fall-in trees were not initially identified as able to impact

MIIs must identify vegetation that will encroach or has already encroached on the MDR



Please reference the California Power Line Prevention Field Guide when conducting inspections

Level 1 visual inspection criteria



Distribution underbuilt span criteria

On distribution underbuilt spans, identify:

- ① Any of the conditions mentioned previously
- ② The VMI must inspect the distribution underbuilt spans as described in the document titled TD-7103P-01, “Transmission Routine (Non-Orchard) Patrol Procedure (TRPP).”
If the VMI discovers vegetation or abnormal conditions that adversely affect transmission primary and/or secondary facilities, then the VMI must appropriately report them



Basic Assessment Overview (Level 2)

Key assessment details



A **detailed visual inspection of a tree** and surrounding site that may include the use of **simple tools**
Requires a VMI to inspect **completely around the tree trunk** looking at the visible aboveground roots, trunk, branches, and site

Level 2 inspections are **ground-based**

Perform a Level 2 inspection if a tree is suspected to have **any of the conditions found in the Hazard Trees section** of the CA Power Line Fire Prevention Field Guide

[Assessment video](#)

Note: the examples shown below are non-exhaustive. Please use your professional judgement to determine when a Level 2 inspection is appropriate



A tree with an insect infestation (top-left), fire damage (top-right), cracks (bottom-left), or signs of dying (bottom-right) would require a Level 2 Assessment



Overview of tree defects and site conditions

- The following tree defects and site conditions can **increase the likelihood of tree failure**
 - Standing dead trees and dead parts of trees
 - Broken and / or hanging branches
 - Cracks
 - Weakly attached branches or codominant stems
 - Decayed or missing wood (damage or cankers)
 - Unusual tree architecture (lean, balance, branch distribution, or lack of taper)
 - Loss of root support
 - Shallow soils
 - Insect infestation
 - Diseases
 - Suppressed or intermediate stems within a forest stand
 - Fire damage
 - Fruiting bodies of known wood decay fungus
 - Narrow attachment with included bark
 - Dwarf Mistletoe and Rust Cankers (conifers)
 - Bleeding
 - Dying
 - Rot
 - Open wounds showing visible rot
 - Old wounds that have partially or fully healed over
 - Conks anywhere on the bole of the tree
 - Hollow trunks detected by rapping on the tree trunk or by use of an increment borer
 - Decreasing crown vigor
 - Cracks or splits not caused by lightning
 - Swelling or cankers on the bole
 - Wildlife cavities
 - Presence of carpenter ants or termites
 - Number, size, and distribution of fungal fruiting bodies
 - Broken or dead tops
 - The amount of solid radial wood remaining where visible
 - Poor live crown ratio (% live crown)
 - Poor diameter-to-height ratio



Identifying Tree Lean

California Power Line Fire Prevention Field Guide (2021)

Trees with more than a slight lean away from utility infrastructure are unlikely to strike the infrastructure, regardless of their weight distribution

Trees exhibit corrected or uncorrected lean

Corrected lean

Usually exhibited in hardwood trees that naturally grow in a non-linear fashion or in conifers (decurrent) that grow upright (excurrent) after a force has moved the bole off vertical (like snow-loading)

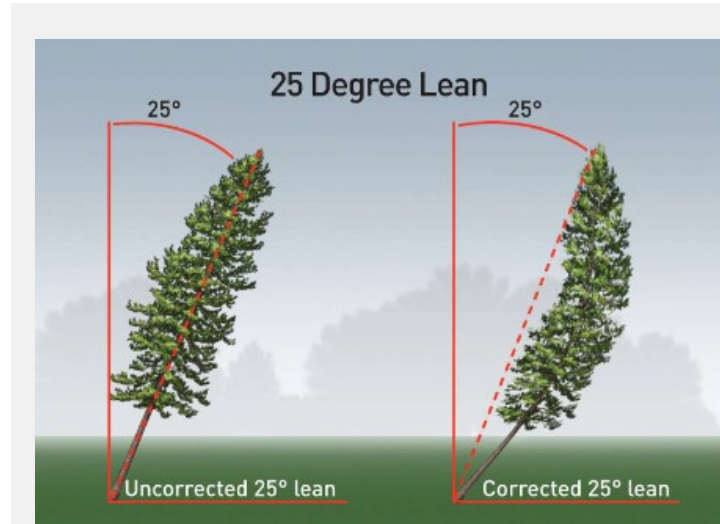
Uncorrected lean

Uncorrected lean is caused by outside factors (wind, soil conditions, etc.) that loosen or break roots

Construction activities that sever roots or strike tree butts and boles also cause trees to lean

Humps and soil mounding on the opposite side of the lean direction are often indicators of broken or loosened tree roots

Cracks in the bole and roots are often signs of a failure in progress, and abatement may be required right away



A tree can display either uncorrected or corrected lean



Examples of uncorrected lean (left) and corrected lean (right) from the field



Prescribing work

Using the information gathered from the Inspection and their professional judgement, the VMI must determine which of the following two options applies to the vegetation, and prescribe work in that option in the system of record:

① Prescribing Non-EVM work:

Prescribe **removal**

If prescribing removal of a tree that may resprout or if a stump is currently resprouting, then refer to Attachment 4, “Handling Stump Resprouts”

If removal is not practical, prescribe pruning such that the tree will **maintain compliance for three annual work cycles**

If pruning to maintain compliance for three annual work cycles is not an option, then prescribe pruning such that the tree will **maintain compliance for one annual work cycle**

If pruning to maintain compliance for one annual work cycle is not an option, then **prescribe Bi-Annual Clearance**

The VPM must consider the mitigation options outlined in Attachment 5, “Bi-Annual Considerations” and determine a course of action for the tree

If the customer refuses removal and / or any pruning, then the VMI must follow the steps outlined in the document titled “Distribution Vegetation Refusal Procedure” and **escalate to the VPM**

2 Prescribing work to maintain EVM clearances:

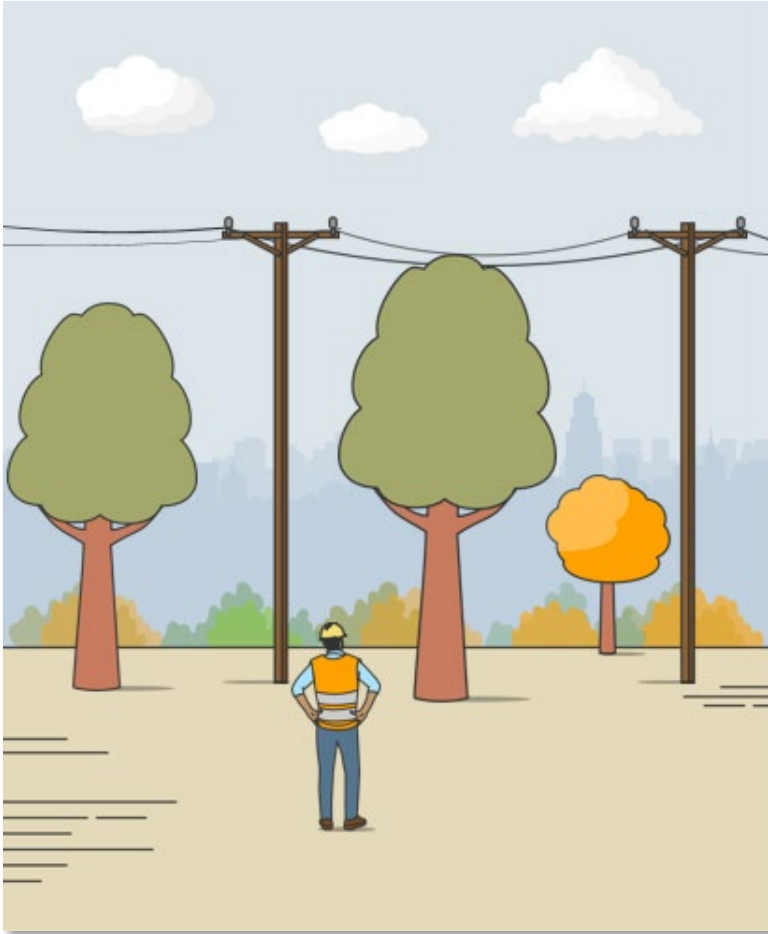
VMI's must prescribe work to maintain the following EVM clearances for the entire segment:

A clear vertical plane (clear to sky) of a **minimum of 4 ft. from the outside conductor**

EVM-required radial clearances of a **minimum of 12 ft.** at time of trim



Conditions for Non-EVM work



Prescribe Non-EVM work if any of the following characteristics are present:

- ① Has the potential to **encroach within minimum distances** required to maintain compliance with G.O. 95, Rule 35, or PRC 4293 (see Appendix A, Minimum Distance Requirements (MDRs))
- ② Shows **evidence of creating strain or abrasion** on secondary lines, or may fall into or otherwise impact secondary conductors
- ③ Is **dead or has portions of it that are dead**, rotten, or weakened by decay or disease and overhangs or leans towards and may fall into or contact the line from the side
- ④ Is **healthy but has one or more portions that are rotten** or diseased, and overhangs or leans toward and may fall into or contact the line from the side



KEY CHANGE: Prescription: Reason for Tree Removal

UWC (regardless of size class) that needs prescription reasons:

Fell Tree

Major Dismantle

Brush Clear to Ground

When selecting a Prescription Action resulting in removal, toggle "Is Complete Removal prescribed?" Select next

Provide Reason for Removal. Select Next

Enter Removal Comments. Select Next

Likely Limb Failure

Likely Trunk Failure

Likely Root Failure

If it is a brush removal you will enter the Brush Volume to Remove Details. Then Select Next

The screenshots show the following steps in the 'Take Action on Veg Point' workflow:

- Step 3:** 'Is Complete Removal Prescribed?' with a toggle switch.
- Step 4:** 'Reason for Removal' with radio button options: 'Grow In Risk', 'Fall In Risk', and 'Other'.
- Step 5:** 'Removal Comments' with a text input field containing 'Test'.
- Step 6:** 'Brush Volume to Remove Details' with a text input field for 'Brush Volume to Remove (cy)'.

Each screenshot includes a 'Back' button and a 'Next >' button at the bottom.



Attachment 5 – Bi-Annual Tree Mgmt. and Reduction Strategy

A bi-annual tree is a tree that cannot be prescribed enough clearance to maintain one-year compliance and no other alternatives are available. The purpose of the bi-annual patrol cycle is to effectively address fast growing trees that may not hold compliance for a full cycle and the customer is refusing removal of the tree(s)

VMI must determine if the prescription will achieve enough clearance to maintain the MDR based on anticipated growth rates to the next annual work cycle

If one year clearance can be achieved

VMI must prescribe the tree for routine priority

If one year clearance cannot be achieved

VMI must attempt to notify customer of any and all work

If the customer refuses removal, then the VMI must contact the Pre-Inspection Manager (PIM) then the PIM must follow the steps in Utility Procedure TD-7102P-04, “Distribution Vegetation Refusal Procedure” and escalate to vegetation program manager (VPM)

The PIM and the Vegetation Program Manager (VPM) must consider the mitigation options and determine a course of action for the tree

If the tree cannot maintain compliance on a bi-annual work schedule, then the PIM and VPM must pursue removal

If the VPM approves the tree for bi-annual patrol, then the VMI/PIM must prescribe the bi-annual priority

Marking a Tree (1/2)

The VMI must mark the tree using either (1) Painting or (2) Flagging

1 Painting

- Spray the paint **near the base of a tree** using one of the following shapes



A dot for pruning



An "X" for removal

- When Painting a mark, use the following guidelines
 - The best location for marking is **above surrounding vegetation** (grass and bushes) and **above any expected snowline**
 - The best location for marking is **on the side that a tree crew will likely see first**
 - Spray **new marks over any marks from previous years**, but with some of the **older mark still showing**

***Note:** Painting is the preferred method, and flagging should only be used if painting is not possible*

Marking a Tree (2/2)

The VMI must mark the tree using either (1) Painting or (2) Flagging

1 Flagging

Securely attach flagging that will help the tree crew identify the tree

- Place flag on trunk for trees to be cut down
- Place flag on branch for trees to be pruned

3 Cannot Paint or Flag

Update the tree record with the code **CNP** (cannot paint) or **CNF** (cannot flag) and a description of the tree's location within the span





Tree Marking Colors

Program	Color	Sample	Paint brand and color name
Distribution program years: 2020, 2024, 2028 Transmission program years: 2022, 2026, 2030	Orange		Nelson Aero Spot: Orange Aervoe: Orange <ul style="list-style-type: none"> Aervoe Professional Choice: Orange
Distribution program years: 2021, 2025, 2030 Transmission program years: 2023, 2027, 2031	Light Green		Nelson Aero Spot: Lite Green
Distribution program years: 2022, 2026, 2028 Transmission program years: 2020, 2024, 2028	Red		Nelson Aero Spot: Red Aervoe: Red <ul style="list-style-type: none"> Aervoe Professional Choice: Red
Distribution Program Years: 2023, 2027, 2031 Transmission Program Years: 2021, 2025, 2029	White		Nelson Aero Spot: White Aervoe: White <ul style="list-style-type: none"> Aervoe Professional Choice: White
Fire and storm response	Fluorescent Green		Nelson Aero Spot: Green Glo Aervoe: Fluorescent Green <ul style="list-style-type: none"> Aervoe Professional Choice: Fluorescent Green
Estimating arborist	Pink		Nelson Aero Spot: Pink Glo <ul style="list-style-type: none"> Aervoe: Fluorescent Hot Pink
Transmission reliability (TVMR)	Blue		Nelson Aero Spot: Lite Blue <ul style="list-style-type: none"> Aervoe Professional Choice: Light Blue
Enhanced vegetation management (EVM) Fuel reduction Second patrol / CEMA	Yellow		Nelson Aero Spot: Yellow Aervoe: Yellow <ul style="list-style-type: none"> Aervoe Professional Choice: Yellow
Cover paint	Black		Nelson Aero Spot: Black <ul style="list-style-type: none"> Aervoe: Black
	Brown		<ul style="list-style-type: none"> Nelson Aero Spot: Brown
Work verification	Pink with a pattern		<i>Flagging only</i>

Attachment 3 - Identifying Major Woody Stems



A tree must meet all of the following criteria in order to qualify for a major woody stem exemption:

- ① Wood is more than **6 in. from high voltage conductors**
- ② There is **no evidence of prior contact** between any portion of the tree branches or trunk and the conductor, including abrasion and/or incidental contact
- ③ The tree has been established in its current location for **at least 10 years**
- ④ The tree is **at least 10 in. in diameter** at breast height (DBH)
- ⑤ The tree or limb at the conductor level is at least **6 in. in diameter**
- ⑥ The tree is **not resprouting** at the conductor level at the time of inspection
- ⑦ The tree is **not easily climbable** (i.e., has scaffold branches present below 8.5 ft. from the ground)
- ⑧ The tree is **not hazardous** per TD-7102P-17, “Vegetation Management Priority Tag Procedure”

Attachment 4 – Handling Stump Resprouts



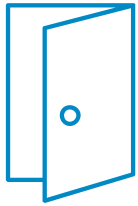
A VMI must perform the following steps:

- ① Verify stump death of past removals from previous patrols for all re-sprouting species during current routine patrol
- ② Attempt to get permission when using herbicides if you don't prescribe for routine work
- ③ List all re-sprouting stumps for tree re-work in the system of record when following conditions are met:
 - Stump is or will become a compliance issue in the future, regardless of time frame
 - Herbicide treatment was prescribed and customer, agency, or local ordinances approve the herbicide application
 - Herbicide will not translocate to other living vegetation
 - Re-sprouts are not root sprouts
- ④ Delete the tree record when the stump is verified as dead
- ⑤ Notify the customer of re-treat in person or with door card
- ⑥ When the TC notifies the VMI of locations where herbicide treatments cannot be applied, update the system of record and add comments



Customer / Property Owner Notification

Step 1: VMI should attempt to contact the customer / property owner directly and describe the work to be performed



Direct contact in person



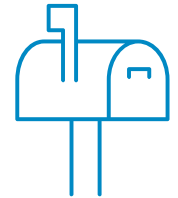
Phone calls



Email



Door hanger



Letters



Step 2: If the customer / property owner does not respond to the first contact attempt, try to contact two more times (total of three times)



Step 3: If the customer / property owner does not acknowledge the receipt of information, enter the details and methods of the notification attempts into the system of record



Door Hanger Details

Standard door hanger

Coordinating Access to Your Property

Please call your Inspector regarding:

Locked gate Dog on property

Other: _____

YOUR INSPECTOR IS:

NAME: _____

PHONE: _____

NOTES: _____

What to expect if work was identified

- Crews will conduct work in the coming weeks.
- We will reach out with more information before starting work.
- Safety measures will be in place at all times during the work.

If you have questions, please call us at 1-800-564-5080 or email us at treesafety@pge.com.

For translated support in 240+ languages, call PG&E at 1-866-743-6589.

IMPORTANT SAFETY WORK: Inspection on Your Property

Dear Valued Customer:

To ensure safety, we surveyed trees and shrubs today near powerlines and electric equipment on your property that could cause a power outage or wildfire.

_____ tree(s) need to be pruned.

_____ tree(s) need to be cut down.

- Stumps may be treated with an EPA approved herbicide to control resprouting unless you choose to opt out by speaking to a crew member or calling 1-800-564-5080.
- Any wood debris less than four inches in diameter will be chipped and spread on-site, if accessible by equipment. In remote areas, crews will cut and scatter debris to avoid unnecessary wood build-up.

No tree or shrub work is needed at this time.

TURN OVER

Thank you for working with us to help ensure the safety of you and your community.

To learn more about PG&E's safety work, please visit www.pge.com/trees

Notice of Tree Work door hanger

NOTICE OF TREE WORK

Tree work on your property is needed to ensure safe and reliable electric service. This work will be performed at no cost to you and will be done by one of our contractors. Work may involve pruning, felling, cutting to the ground and/or treatment of trees that may impact high-voltage lines.

Property address: _____

Parcel ID: _____

Trees identified to be worked were marked with paint or colored flagging.

Color used:

- Trees to be cut down. Marked with a painted "X" or have flagging around the trunk.
- Trees to be pruned. Marked with a painted dot or flagging hanging on a branch.

TREE DIAMETER	TREE QUANTITY	SPECIES
0-4"		
4.1-11.9"		
12-25.9"		
26-32.9"		
33-47.9"		
48"		

Inspector comments: _____

What to expect after tree work is completed:

- Wood larger than 4" diameter will be left on site in lengths to be determined by PG&E tree contractor.
- Foliage and wood less than 4" diameter will be chipped on site if accessible to a brush chopper. Chips may be left on site.*
- When the site is not accessible to a brush chopper, material will be "topped and scattered" and left on site.*
- After the tree is cut down, stumps will be treated with an EPA-approved herbicide, where appropriate, to control resprouting.
- Tree stumps will not be removed.

*Stump removal left on site will be left in accordance with fire regulations.

Have questions? Contact your PG&E representative:

Representative name: _____

Company: _____

Phone: _____ Communication date: _____

Please visit pge.com/trees to learn more about trees and powerlines or call 1-800-PGE-5080.

For translated support in over 250 additional languages, contact PG&E at 1-866-743-6589.

Para ayuda en español, por favor llame al 1-800-640-6789

* 中文協助 0022(2)8282828 0022 1-800-973-7522

* 中文協助 0022(2)8282828 中文 1-800-973-7522

* 中文協助 0022(2)8282828 中文 1-800-973-7522

Questions and details of PG&E representative

If a VMI elects to leave a door hanger, they must choose one of the two hangers available (shown on the left) and ensure that the following information is provided:

Property Address

Parcel ID

Trees identified to be worked

Expectations after tree work is done (e.g., wood management)

Questions and details of PG&E representative



Outside Observer Findings and Lessons Learned

Note: Below is findings from all outside observation teams and an opportunity for VM to continuously improve. This includes Distribution, FTI, VMOM and TRI observations.

Category	Key Findings	Key Learning/Improvement Opportunity
Will not hold / Missed MDR Overhang Radial Clearance	Radial Clearance will not hold until next work cycle Currently not meeting MDR EVM not maintained	<ul style="list-style-type: none"> Follow Inspection Procedure section 4 regarding prescribing work Prescribe maximum clearance able to obtain Look for tree defects that may cause a limb to cross MDR Check for potential overhang Reminder: Inspect Vegetation that has or may encroach the MDR, based on anticipated growth rates before the next annual work cycle (see Appendix A, Minimum Distance Requirements [MDR]) and considering normal weather patterns for the local area or line position or line conditions.
Fall In Trees Hazard Tree Overhang	Missed defects Lean Dead limbs Hazard Trees	<ul style="list-style-type: none"> Closely review list of Appendix B Perform a quality Level 1 Perform Level 2 more often when identify defects Reminder: Inspect Vegetation (categorized as either a whole tree or portion of tree) that may fall into or otherwise impact PG&E electric facilities.
Strain/Abrasion On Secondary	Contact points on secondary Guy wire strain	<ul style="list-style-type: none"> Review what to inspect sections of procedures Reminder: Inspect ANY vegetation that is causing significant strain or abrasion to the secondary conductors (excluding service drops). INSPECT ALL Idle lines as if they are energized.
Pre-Inspection Error	Procedure not followed Missing LAN ID Missing information in record Unable to locate Incorrect status of VP	<ul style="list-style-type: none"> Follow procedure and ALL attachments Review this training and procedures often Update all required fields in system of record Provide clear comments

Focused Tree Inspection (FTI) Training

VEGM-0112



Goals/intent

To maintain safe and reliable operation, the FTI program focuses Vegetation Management (VM) efforts with qualified Inspectors **during annual or second patrols** in identified **Area of Concerns (AOCs)** that have experienced higher volumes of vegetation damage and/or outages.

Reminder:

FTI is Attachment 7 of the DIP TD-7102P-01
All expectations and requirements of the DIP must be followed

- International Society of Arboriculture (ISA) Tree Risk Assessment Qualified (TRAQ) Vegetation Management Inspectors (VMIs)
- Distribution Vegetation Management Inspectors (VMI and SVMII)
- Vegetation Program Manager (VPM)
- Execution supervision



REFER to the Target Audience section in [TD-7102P-01, “Vegetation Management Distribution Inspection Procedure.”](#)

- All individuals must complete PG&E Academy training required for inspections prior to performing this procedure. Training expectations are available at Training Expectations SharePoint
- **Inspectors must be** International ISA Tree Risk Assessment Qualification (TRAQ)
Individual standing must be current and on record in the appropriate PG&E system of record.
- Gather and review the following information:
 - Work packets
 - Pre-Patrol Report
 - Historical outage data
- Gather the assigned paint and flagging tape color for marking.

FTI Work Locations: Areas of Concern

- An Area of Concern is a **geographical region** that is at a **high risk of having a tree-caused outage**
- The data used to identify Areas of Concern is similar to the data used to make Public Safety Power Shutoff (PSPS) decisions.
- FTI works in conjunction with Enhanced Power Safety Setting-enabled circuits to provide an extra level of protection.



What to Inspect 1.1



Quality identified
10% failure rate
where fall-in trees
were not initially
identified as able to
impact

1

INSPECT all Vegetation
(categorized as either a whole
tree or portion of tree) which
has a likelihood of impacting
PG&E electric facilities
(excluding service drops).

FTI inspection should be completed during annual or second patrols in identified AOCs-
to minimize customer impact

1

TRAQ VMI goes to location

2

PERFORM a Level 2 (Basic Tree Risk Assessment) of all Vegetation with the likelihood to impact PG&E electric facilities (excluding service drops).

- Complete Basic Tree Risk Assessment Form using a **15 Month time frame** for trees with **likelihood to impact facilities**

ISA Basic Tree Risk Assessment Form

Client _____ Date _____ Time _____
 Address/Tree location _____ Tree no. _____ Sheet _____ of _____
 Tree species _____ dbh _____ Height _____ Crown spread dia. _____
 Assessor(s) _____ Tools used _____ Time frame _____

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practical to move target?	Restriction practical?
			Target within drip line	Target within 1 x Ht.	Target within 1.5 x Ht.			
1								
2								
3								
4								

Site Factors

History of failures _____ Topography Flat Slope _____ % Aspect _____
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe _____
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots _____ % Describe _____
 Prevailing wind direction _____ Common weather Strong winds Ice Snow Heavy rain Describe _____

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal _____ % Chlorotic _____ % Necrotic _____ %
 Pests/Biotic _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

Load Factors

Wind exposure Protected Partial Full Wind funneling _____ Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss _____
 Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

— Crown and Branches —

Unbalanced crown LCR _____ %
 Dead twigs/branches _____ % overall Max. dia. _____
 Broken/Hangers Number _____ Max. dia. _____
 Over-extended branches

Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other _____

Cracks _____ Lightning damage
 Codominant _____ Included bark
 Weak attachments _____ Cavity/Nest hole _____ % circ.
 Previous branch failures _____ Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay
 Response growth _____

Condition(s) of concern _____

Prescribing Work 1.3

1

Using the Information gathered in the Basic Tree Risk Assessment Form and their professional judgement, the TRAQ VMI must

2

DETERMINE which mitigation option applies to the vegetation (whole or part of the tree)

3

Prescribe work in the system of record. (One VM)

Drop a Veg Point and create a record in One VM for each tree inspected and upload the TRAQ form to the corresponding record

The screenshot displays two panels from a software interface. The left panel, titled 'Veg Point', shows details for a specific tree record. The right panel, titled 'Prescription', shows the work code and various prescription parameters.

Veg Point	
Veg. Point	[Redacted]
VP-07260667	[Redacted]
Veg Point Details at Time of Inspection	
Common Name	[Redacted]
Oak, Black	[Redacted]
Scientific Name	City
Quercus kelloggii	WEST POINT
Dead/Dying	County
<input type="checkbox"/>	
DBH	State
28	CA
Height	Directions
55	On Lily Gap Rd
Tree Ownership	Location
Private	38.427098, -120.492427
Tree Connect	Inspection Frequency
<input type="checkbox"/>	Annual
MWS Doc Number	Next Inspection Date
	5/30/2024
Major Woody Stem (MWS)	Comments
<input type="checkbox"/>	P2 to P3 1/4 Span LOL
Exempt Type	City Jurisdiction
	<input type="checkbox"/>
Redwood Exemption	

Prescription	
Work Code	Reason for Removal
021-Major Dismantle R3 24-35.99 in	
Priority	Is Complete Removal Prescribed
Routine	False
Observed Radial Dist. to Asset ft	Removal Comments
10	
Trim to Vertical Clearance ft	Reason for Delisting
Trim to Horizontal Clearance ft	
Trim to Radial Clearance ft	
Brush Quantity	
Debris Diameter Threshold	
4"	
Debris < Threshold	
Chip in Place	
Wood Management >= Threshold	
N/A	
Prescription Comments	
on May 31 Talked to Property owner and she agreed to 2 Oak to be removed and keep the wood.	
Reason for Work Code Change ⓘ	
Tag Type	
Tag Number	

Marking a Tree – SAME Distribution

The VMI must mark the tree using either (1) Painting or (2) Flagging

1 Painting

- Spray the paint **near the base of a tree** using one of the following shapes



A dot for pruning



An "X" for removal

- When Painting a mark, use the following guidelines
 - The best location for marking is **above surrounding vegetation** (grass and bushes) and **above any expected snowline**
 - The best location for marking is **on the side that a tree crew will likely see first**
 - Spray **new marks over any marks from previous years**, but with some of the **older mark still showing**

***Note:** Painting is the preferred method, and flagging should only be used if painting is not possible*



Facilities

The components of the electric **distribution** overhead system, including pole/support structure, primary conductors [4 kilovolts (kV) and less than 60 kV – with the majority being between 4 kV to 21 kV], voltage regulating equipment, switching equipment, transformers, and secondary conductors (operates under 750 V and supply ranging from 120 V to 480 V). Refer to TD-8105, "Distribution Line Overhead Asset Management Plan" for additional details

Time frame

Period in which you are estimating the likelihood of failure. Time frame is essential when rating the likelihood of failure with all categories except ***imminent***, which has a different time frame (very soon).

For FTI our Time frame is **15 months**



Likelihood of Impact:



When determining the likelihood of impact to PG&E electric facilities, the inspector should consider factors including **tree height, lean, weight distribution, and whether the tree has a path to the conductors**. If a tree cannot impact PG&E electric facilities during reasonably foreseeable conditions, it is not hazardous to it.

- The target zone (where tree failures may have impacts) is typically defined in terms of distance from conductors.
- For a branch failure, the target zone is the area in which the branch could strike and is evaluated using the same general principles. Reference the Cal Fire Power Line Fire Prevention Field Guide for full definition Pg. 43 “Steps to Inspection”.

Significant Changes in FTI

OLD	New
1.1, 1.2.1-2 Inspect Primary facilities and Secondary conductors	1.1 Inspect Primary and Secondary facilities for all vegetation that has likelihood of impact .
1.2.3 Perform level 1 assessment of all trees then perform a level 2 inspection to trees with listed hazard conditions	1.2 Perform a level 2 assessment and complete a basic tree risk assessment form for all trees with likelihood to impact facilities
1.2.4 Continue with inspection if work is not necessary to maintain safety and compliance as listed	1.3 Create a record for all trees inspected with a basic tree risk assessment form for both no work trees and trees requiring work.
Table 1-4 Program applies increased scrutiny to specific trees of concern	1.2 Use the Basic Tree Risk Assessment form for all trees with likelihood of impact
	1.4, 1.5 Align with DIP for marking Trees and Notifying Customers

- Inspections take place in Areas of Concern
- Conduct a level 2 assessment on every tree with likelihood of impact
- Use a Time frame of 15 months
- Drop a new point and create a new record for every tree inspected
- Fill out a Basic Tree Risk Assessment for every tree inspected
- Can be done concurrently with other patrols



Quiz questions for FTI

Scan the QR code shown on the screen



Tree Removal Inventory (TRI) Training

VEGM-0111



The program focuses on vegetation points identified by the Enhanced Vegetation Management (EVM), Accelerated Wildfire Risk Reduction (AWRR) programs and other known populations to reduce the risk of wildfire due to vegetation.

Reminder:

TRI is Attachment 6 of the DIP TD-7102P-01
All expectations and requirements of the DIP must be followed

- Distribution Vegetation Management Inspectors (VMI and SVM)
- International Society of Arboriculture (ISA) Tree Risk Assessment Qualified (TRAQ) Vegetation Management Inspectors (VMIs)
- Vegetation Program Manager (VPM)
- Execution supervision



REFER to the Target Audience section in [TD-7102P-01, “Vegetation Management Distribution Inspection Procedure.”](#)



Before you Start

- All individuals must complete PG&E Academy training required for inspections prior to performing this procedure. Training expectations are available at Training Expectations SharePoint
- For TRAQ VMI, confirm International ISA Tree Risk Assessment Qualification (TRAQ) is current and on record in the appropriate system of record.
- Gather and review the following information:
 - Work packets
 - Pre-Patrol Report
 - Historical outage data
- Gather the assigned paint and flagging tape color for marking.

In-scope trees are grouped into two categories for the purposes of this attachment:

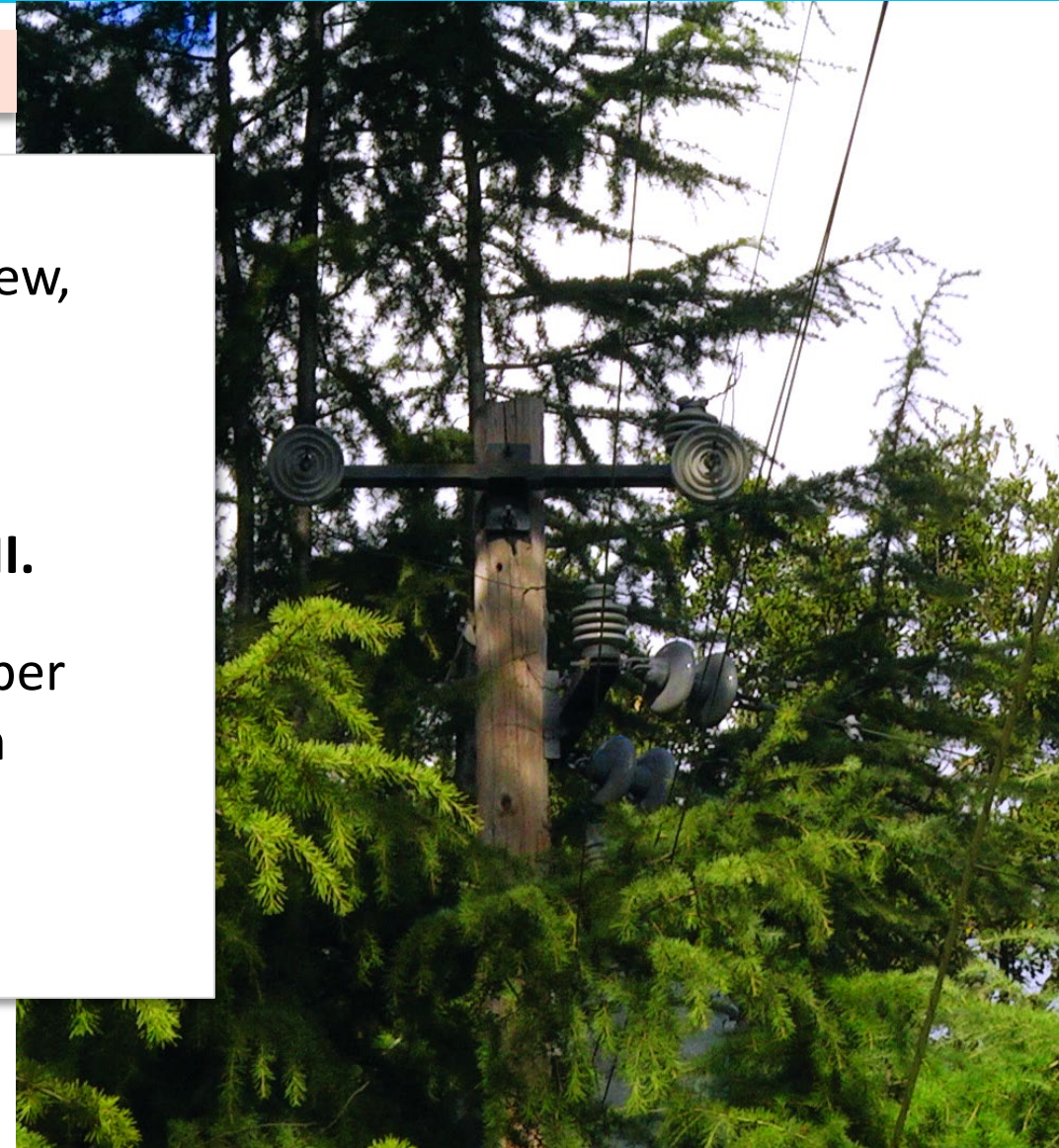
- Vegetation with TAT results of ABATE
- Vegetation with TAT results other than abate (*this includes Vegetation prior to TAT implementation*)
- Each vegetation point must be inspected, either through desktop review or field review, and the system of record updated.

Reminder:

Tree Assessment Tool (TAT) – **Retired** Tool that evaluated an individual tree's likelihood of failing and supplied instruction of whether to abate or not abate the tree

NOTE

- IF through inspection by VMI or desktop review, a local operation team determines that a vegetation point is ready for tree crew assignment, **THEN no further inspection is necessary. This DOES NOT require TRAQ VMI.**
- The **prescription field will require updating** per the new Unified Work Codes implemented in 2023.
- Work can be assigned directly to a tree crew.



The VMI (or TRAQ VMI) must **GO TO** their first vegetation point assigned.

- **Re-inspections must be performed physically** at each tree location assigned
- Utilize tree location comments to help locate trees
- Update **Field Maps** on-site during assessment

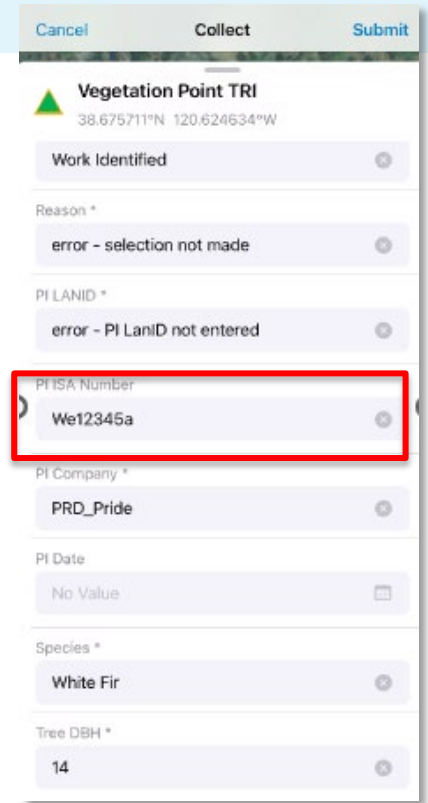
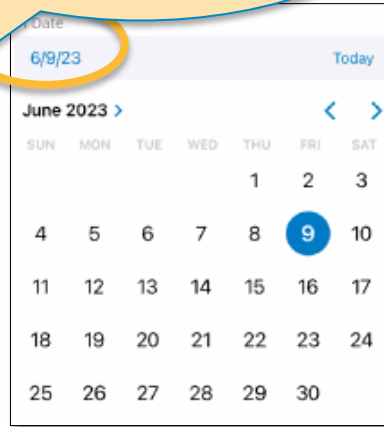
Quality 11% failure rate
 Not being able to locate the tree
PLEASE BE CLEAR IN COMMENTS



Every inspection or desktop review must have the following fields must be updated in Field Maps

- **Date:** Date of Inspection
- **PI Company:** With VMI Company Name
- **PI LAN ID:** LAN ID of the VMI (REPLACE ANY EXISTING VALUE)
- **PI ISA Number:** ISA number of the VMI (or TRAQ VMI, if applicable)
- **Wood Management Needed:** Update appropriately based on result

Quality 9% failure rate
 Inspector not documenting ISA Credentials
 NOTE: enhancement in the future



For each Vegetation Point - Determine if one of the following exist:

1. The tree is NOT present.
2. There are no longer any above-ground facilities present for the tree to impact
3. The Vegetation Point exists with facilities intact, and the Vegetation Point has a TAT result of ABATE.
4. The Vegetation Point exists with facilities intact, and the Vegetation Point has a TAT result other than ABATE

For each of the field conditions above, follow the following actions in the next slides

Tree is No Longer Present

Field Condition:

The tree is NOT present., update Field Maps as follows.

- **Reason:** Tree Has Already Been Removed
- **VP Status:** No Work Required
- **Prescription:** No Work Required
- **PI Lan ID:** VMI's Lan ID
- **PI ISA Number:** VMI's ISA number



Facilities No Longer Exist in the Field

Field Condition:

There are no longer any above-ground facilities present for the tree to impact.

Update Field Maps as follows:

- **Reason:** Line Does Not Exist
- **VP Status:** No Work Required
- **Prescription:** No Work Required
- **PI Lan ID:** VMI's Lan ID
- **PI ISA Number:** VMI's ISA number



The TREE exists and has a TAT result of ABATE

Field Condition:

The TREE exists, facilities intact and the TREE has a TAT result of ABATE

Update Field Maps as follows:

- **Reason** Tree Still Requires Work
- **VP Status:** Work Identified
- **Prescription:** UPDATE the **PRESCRIPTION** field to the correct unified WORK CODE
- **PI Lan ID:** VMI's Lan ID
- **PI ISA Number:** VMI's ISA number





The TREE exists and has a TAT result of other than ABATE

Field Condition:

Inspection shows that the facilities exist and the tree is still present with TAT result of **other than Abate**

In these situations, there are two possible paths to follow:

Path 1:

Inspection by VMI

Path 2:

Inspection by TRAQ VMI

VMI Inspecting: Vegetation Points that has a TAT Result of Other Than Abate

The VMI does not believe that the tree is likely to impact the facilities.

Therefore, a TRAQ VMI must INSPECT the tree.

Update Field Maps as follows:

- **Status:** “Hold”
- **Reason:** “Requires Reassessment by TRAQ VMI”
- **Constraint:** “Pending TRAQ Reassessment
- **PI Lan ID:** VMI’s Lan ID
- **PI ISA Number:** VMI’s ISA number



A VMI or TRAQ VMI DETERMINES the same work is needed.

Update Field Maps as follows:

- UPDATE the **PRESCRIPTION** field to the correct unified WORK CODE.
- **Status:** “Work Identified”
- **Reason:** “Tree Still Requires Work”
- **PI Lan ID:** VMI’s Lan ID
- **PI ISA Number:** VMI’s ISA number

NOTE: This inspection may be done as an individual assessment OR after being assigned the location from a VMI based on “HOLD” status

Vegetation Points with TAT other than Abate (1.2.4)

TRAQ VMI DETERMINES the work needed is a CHANGE from the original prescription

After completing a Level 2 inspection and completing the Basic Tree Risk Assessment Form update field maps as follows:

- UPDATE the PRESCRIPTION field to the new unified WORK CODE.
- VP Status: “Work Identified”
- Reason: “Tree Still Requires Work”
- **UPLOAD** a photograph of the completed Basic Tree Risk Assessment Form to the vegetation point in Field Maps.

NOTE: No other photos should be uploaded for the vegetation point, except the Basic Tree Assessment form
 This inspection may be done as an individual assessment OR after being assigned the location from a VMI based on “HOLD” status.

The image shows a detailed ISA Basic Tree Risk Assessment Form. It includes sections for client information, site factors, target assessment, tree health and species profile, load factors, and tree defects and conditions affecting the likelihood of failure. The form is divided into several sub-sections: Crown and Branches, Trunk, and Roots and Root Collar. Each sub-section contains various checkboxes and input fields for recording specific tree conditions and their likelihood of failure.



Vegetation Points with TAT other than Abate (1.2.4)

The TRAQ VMI DETERMINES that NO WORK is required.

PERFORM a Basic Tree Risk Assessment (Level 2) using the Basic Tree Risk Assessment Form. AND update field maps as follows:

- Status: No Work Required
- Reason: “Reassessed by TRAQ VMI” or “NO STRIKE POTENTIAL
- Prescription: No Work Needed” OR “NO STRIKE POTENTIAL” as appropriate
- Constraint: None Observed
- **UPLOAD** a photograph of the completed Basic Tree Risk Assessment Form to the vegetation point in Field Maps.

No other photos should be uploaded for the vegetation point, except the Basic Tree Assessment form

The image shows a detailed ISA Basic Tree Risk Assessment Form. It includes sections for client information, target assessment table, site factors, history of failures, soil conditions, prevailing wind direction, tree health and species profile, species failure profile, load factors, crown and branches, trunk, and roots and root collar. The form is designed for a Level 2 Basic Tree Risk Assessment.



Basic Tree Risk Assessment Form

Only **TRAQ VMI** can complete a Basic Tree Risk Assessment Form and upload to the Vegetation Point in Field Maps.

ISA Basic Tree Risk Assessment Form

Client _____ Date _____ Time _____
 Address / Tree location _____ Tree no. _____ Sheet _____ of _____
 Tree species _____ dbh _____ Height _____ Crown spread dia. _____
 Assessor(s) _____ Tools used _____ Time frame _____

Target number	Target description	Target protection	Target zone			Occupancy rate 1 - rare 2 - occasional 3 - frequent 4 - constant	Practicality to move target?	Restriction practices
			Target within drip line	Target within 25 ft.	Target within 50 ft.			
1								
2								
3								
4								

Site Factors

History of failures _____ Topography Flat Slope _____ % Aspect _____
 Site changes None Grade change Site clearing Changed soil hydrology Root cuts Describe _____
 Soil conditions Limited volume Saturated Shallow Compacted Pavement over roots _____ % Describe _____
 Prevailing wind direction _____ Common weather Strong winds Ice Snow Heavy rain Describe _____

Tree Health and Species Profile

Vigor Low Normal High Foliage None (seasonal) None (dead) Normal _____ % Chlorotic _____ % Necrotic _____ %
 Pests/Biotic _____ Abiotic _____
 Species failure profile Branches Trunk Roots Describe _____

Load Factors

Wind exposure Protected Partial Full Wind funneling Relative crown size Small Medium Large
 Crown density Sparse Normal Dense Interior branches Few Normal Dense Vines/Mistletoe/Moss
 Recent or expected change in load factors _____

Tree Defects and Conditions Affecting the Likelihood of Failure

--- Crown and Branches ---

Unbalanced crown LCR _____ %
 Dead twigs/branches _____ % overall Max. dia. _____
 Broken/Hangers Number _____ Max. dia. _____
 Over-extended branches
 Pruning history
 Crown cleaned Thinned Raised
 Reduced Topped Lion-tailed
 Flush cuts Other _____
 Cracks Lightning damage
 Codominant Included bark
 Weak attachments Cavity/Nest hole _____ % circ.
 Previous branch failures Similar branches present
 Dead/Missing bark Cankers/Galls/Burls Sapwood damage/decay
 Conks Heartwood decay
 Response growth _____
 Condition (s) of concern _____

Part Size _____ Fall Distance _____
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

--- Trunk ---

Dead/Missing bark Abnormal bark texture/color
 Codominant stems Included bark Cracks
 Sapwood damage/decay Cankers/Galls/Burls Sap ooze
 Lightning damage Heartwood decay Conks/Mushrooms
 Cavity/Nest hole _____ % circ. Depth _____ Poor taper
 Lean _____ Corrected? _____
 Response growth _____
 Condition (s) of concern _____

Part Size _____ Fall Distance _____
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

--- Roots and Root Collar ---

Collar buried/Not visible Depth _____ Stem girdling
 Dead _____ Decay Conks/Mushrooms
 Ooze Cavity _____ % circ.
 Cracks Cut/Damaged roots Distance from trunk _____
 Root plate lifting Soil weakness
 Response growth _____
 Condition (s) of concern _____

Part Size _____ Fall Distance _____
 Load on defect N/A Minor Moderate Significant
 Likelihood of failure Improbable Possible Probable Imminent

Page 1 of 2

Certifications Survey

Based on the various expertise requirements on various programs, and as part of our training opportunities, the leadership team is asking that ALL employees scan and complete.



Marking a Tree – SAME Distribution

The VMI must mark the tree using either (1) Painting or (2) Flagging

1 Painting

- Spray the paint **near the base of a tree** using one of the following shapes



A dot for pruning



An "X" for removal

- When Painting a mark, use the following guidelines
 - The best location for marking is **above surrounding vegetation** (grass and bushes) and **above any expected snowline**
 - The best location for marking is **on the side that a tree crew will likely see first**
 - Spray **new marks over any marks from previous years**, but with some of the **older mark still showing**

***Note:** Painting is the preferred method, and flagging should only be used if painting is not possible*

Marking and Customer Communication

- 1 Mark all trees in accordance with the DIP using routine color for the given year.
- 2 Notify the customer in accordance with the DIP ensuring at least 3 attempts.



NOTICE OF TREE WORK

Tree work on your property is needed to ensure safe and reliable electric service. This work will be performed at no cost to you and will be done by one of our contractors. Work may involve pruning, felling, cutting to the ground and/or treatment of trees that may impact high voltage lines.

Property address:

Parcel ID:

Trees identified to be worked were marked with paint or colored flagging.

Color used:

- **Trees to be cut down:** Marked with a painted "X" or have flagging around the trunk.
- **Trees to be pruned:** Marked with a painted dot or flagging hanging on a branch.

TREE DIAMETER	EST. QUANTITY	SPECIES
Vegetation < 4"		
Tree(s) 4-11.9"		
Tree(s) 12-23.9"		
Tree(s) 24-35.9"		
Tree(s) 36-47.9"		
Tree(s) > 48"		

Inspector comments:

What to expect after tree work is completed:

- Wood larger than 4" diameter will be left on site in lengths to be determined by PG&E tree contractor.
- Foliage and wood less than 4" diameter will be chipped on site if accessible to a brush chipper. Chips may be left on site.
- When the site is not accessible to a brush chipper, material will be "lopped and scattered" and left on site.
- After the tree is cut down, stump(s) will be treated with an EPA-approved herbicide, where appropriate, to control regrowth.
- Tree stumps will not be removed.

*Pest material left on site will be left in accordance with fire regulations.

Have questions? Contact your PG&E representative:

Representation name:

Company:

Phone: Communication date:

Please visit pge.com/trees to learn more about trees and powerlines or call 1-800-PGE-5000.

For translated support in over 250 additional languages, contact PG&E at 1-866-743-6289.
Para ayuda en español, por favor llame al 1-800-440-4389.
普通话/普通话/普通话 - 普通话 1-800-493-9555
 mandarín/普通话/普通话/普通话, 普通话 1-800-298-8438

PG&E is a Pacific Gas and Electric Company, a subsidiary of PG&E Corporation, 5000 Pacific Ave. and Northern California Air Quality Control District, 2001, 2002, 2003.

- Any inspector, whether TRAQ Qualified or not, is able to verify that an above ground facility or tree is no longer present.
- **TAT ABATE cannot** have assigned work changed, i.e., a removal cannot be changed to a trim
- Only TRAQ VMI can change work (no work or change work prescribe) for Vegetation Points with a TAT other than Abate. Decision must be documented with a completed Basic Tree Risk Assessment Form
- Reinspection results must all be documented in the system of record.
- All other requirements of DIP must be followed



Quiz questions for TRI

Scan the QR code shown on the screen- complete questions



Vegetation Management

Operational

Mitigation(VMOM) Training

VEGM-0114





Vegetation Management Operational Mitigation

Vegetation Management Operational Mitigation (VMOM) provides procedures for performing inspections on Enhanced Powerline Safety Setting (EPSS) capable electric facilities.

VMOM activities are performed when EPSS-enabled circuits experience vegetation-related outages.

These activities are divided into two types of projects: Proactive Inspection Projects and Reactive Inspection Projects

Reminder:

VMOM is Attachment 8 of the DIP TD-7102P-01

All expectations and requirements of the DIP must be followed

VMOM Reactive Projects:

Patrols and tree work at the locations of vegetation caused EPSS outages.

Includes all trees with similar symptoms and conditions as the tree that caused the outage and prescribe work to mitigate all vegetation (categorized as either a whole tree or portion of tree) that has a likelihood of impacting PG&E electric facilities (excluding service drops) during the next 15 months.

VMOM reactive patrols are conducted on electric distribution facilities at a minimum of five spans in **all directions** from the location of the tree that caused the EPSS outage.

VMOM Proactive Projects:

Patrols of the entire Circuit Protection Zone (CPZ) identified by the Vegetation Assets Strategy and Analytics (VASA) team. Proactive projects address historic vegetation-caused outages. The scope of work for Proactive Projects is determined by the tree failure history for the circuit.

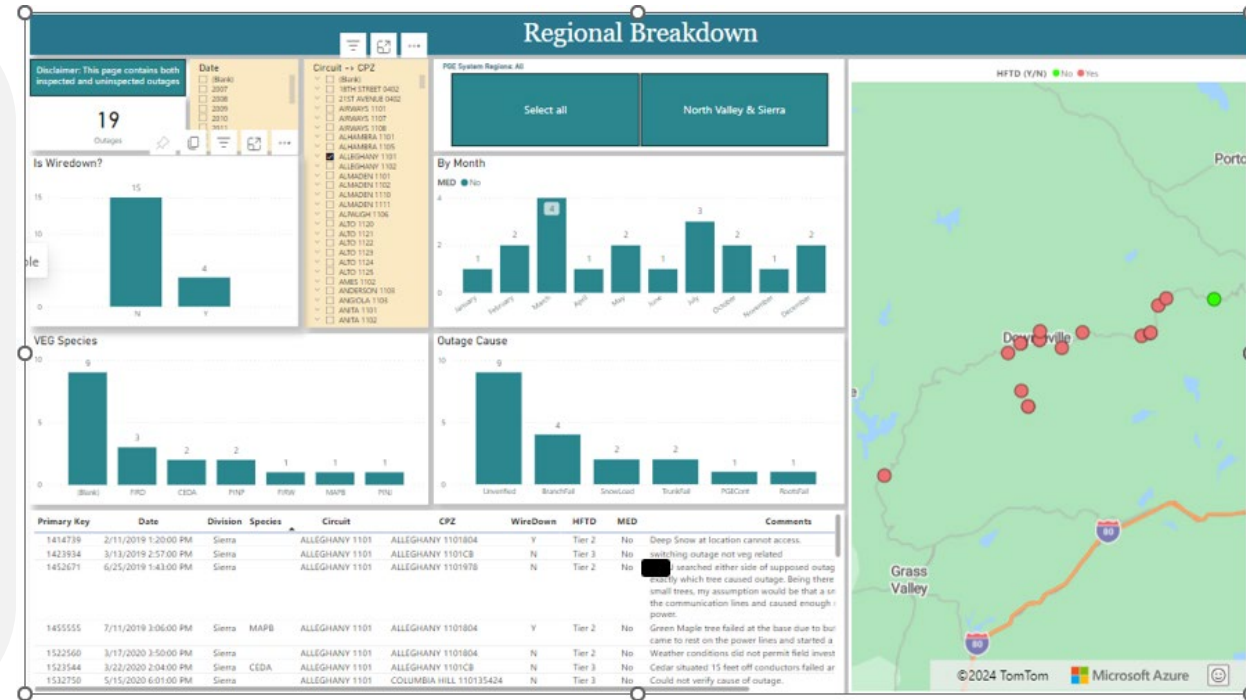
- Vegetation Management Inspectors (VMI and SVMII)
- Vegetation Program Managers
- Execution Supervision

Qualified VMI that has one of these qualifications:

- TRAQ,
- Certified Arborist,
- Registered Professional Forester (RPF),
- VMI who has either 1 year Utility Vegetation Management experience plus bachelor's degree, 2 years Utility Vegetation Management experience plus associate degree, or 3 years of Utility Vegetation Management experience



- All individuals must complete the PG&E Academy training required for inspections prior to performing this procedure. Training expectations are available at [Training Expectations](#).
- Gather and review the following information:
 - Review work assignment
 - Pre-Patrol Report
 - Power Bi to help inform inspection.
- Gather the assigned paint color for marking.





1.0 Preparing to Inspect

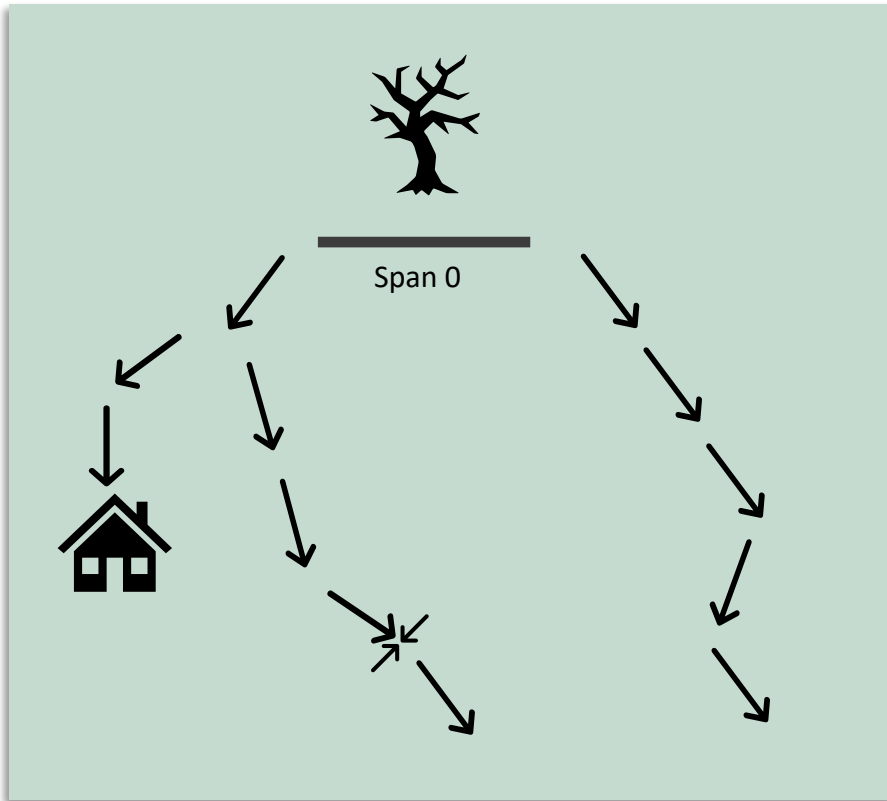
VMOM is an additional patrol attachment to the DIP therefore, as with all distribution inspections, the following applies

Always inspect and report Priority hazard trees according to the Priority Tag Procedure
TD-7102P-17

Always Inspect and report Abnormal Field Conditions following the Abnormal Procedure
TD-7102P-09

2 Performing Reactive Projects

2.1 What to Inspect for Reactive Patrols



- ① Inspect the tree that caused the EPSS outage.
 - If the outage-causing tree cannot be located, perform further investigation of the Integrated Logging Information System ((ILIS) and contact the restoration specialist to determine the starting point.
- ② Perform a Level 1 visual inspection on all trees within the determined patrol area that extends from the location of the outage-causing tree.
 - The patrol area starts at the outage-causing tree and extends **at least 5 primary and secondary spans** in **all directions** from the outage-causing tree.
 - If necessary, the local VPM or VMI can use their professional judgement to extend the patrol.
- ③ If patrols reach an **intersection** then extend patrols an equal number of spans in all directions and/or to an appropriate stopping point (i.e., end pole, end of tree stand, grass field, Recloser or other source side device).

2 Performing Reactive Project Inspections

2.2 Inspecting Vegetation

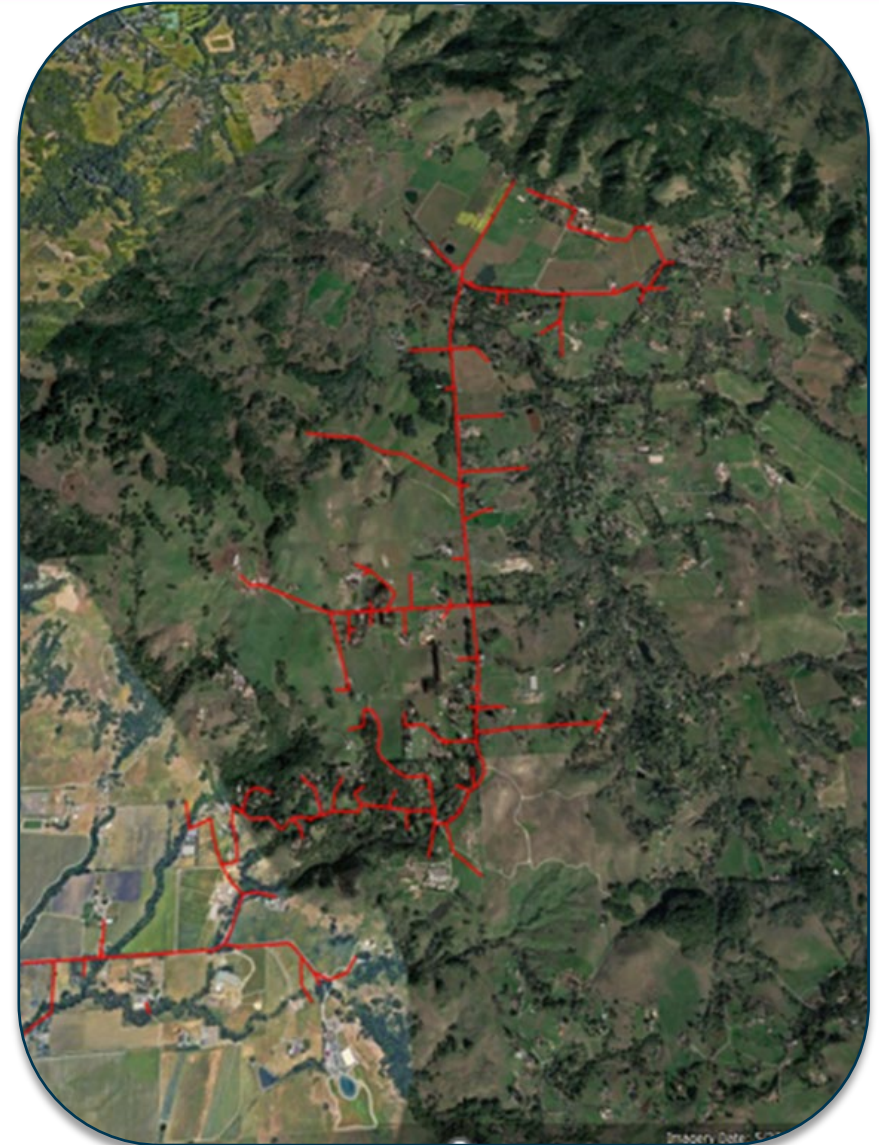


1. Go to the tree failure location
 1. **Identify the tree** that caused the outage
 2. Conduct a Level 2 assessment of that tree
2. Perform a level 1 visual inspection for **all trees** that extend from the outage location within the determined patrol area
3. If during your Level 1 Inspection you see or suspect a tree with defects or site conditions as stated in the “Hazard Trees/ Vegetation Clearance” section of the Cal Fire Power Line Fire Prevention Field guide perform a **Level 2 inspection**

3 Performing Proactive Project

3.1 What to Inspect

- The defined work area is the assigned section or entire CPZ
- Vegetation (categorized as either a whole tree or portion of tree) that has the **likelihood to impact** PG&E electric facilities.
 - Likelihood to Impact: When determining the likelihood of impact to PG&E electric facilities, the inspector should consider factors including tree height, lean, weight distribution, and whether the tree has a path to the conductors. If a tree cannot impact PG&E electric facilities during reasonably foreseeable conditions, it is not hazardous to it.



3 Performing Proactive Project Inspections

3.2 Inspecting Vegetation

- ① Go to the **assigned CPZ** and perform a **Level 1** inspection of all vegetation surrounding the facilities
- ② If you see or suspect a tree with defects or site conditions as stated in the “Hazard Trees/ Vegetation Clearance” section of the **Cal Fire Power Line Fire Prevention Field Guide** and perform a **Level 2** inspection





3 Performing Proactive Project Inspections



**3.3 Conduct a Level 2 assessment
on ALL overhanging trees**

4.0 Prescribing Work

- Using the information gathered during inspection and applying professional judgement
 - Use a **15 month** time frame to inform all prescriptions
 - Follow the prescribing work section of the Distribution Inspection Procedure



Marking a Tree – SAME Distribution

The VMI must mark the tree using either (1) Painting or (2) Flagging

1 Painting

- Spray the paint **near the base of a tree** using one of the following shapes



A dot for pruning



An "X" for removal

- When Painting a mark, use the following guidelines
 - The best location for marking is **above surrounding vegetation** (grass and bushes) and **above any expected snowline**
 - The best location for marking is **on the side that a tree crew will likely see first**
 - Spray **new marks over any marks from previous years**, but with some of the **older mark still showing**

***Note:** Painting is the preferred method, and flagging should only be used if painting is not possible*



Marking Standard and Customer Communication

1

Mark all trees in accordance with the DIP using routine color for the given year.

2

Notify the customer in accordance with the DIP, ensuring at least 3 attempts.



PG&E

NOTICE OF TREE WORK

Tree work on your property is needed to ensure safe and reliable electric service. This work will be performed at no cost to you and will be done by one of our contractors. Work may involve pruning, felling, cutting to the ground and/or treatment of trees that may impact high voltage lines.

Property address: _____
Parcel ID: _____

Trees identified to be worked were marked with paint or colored flagging.

Color used:

- **Trees to be cut down:** Marked with a painted "X" or have flagging around the trunk.
- **Trees to be pruned:** Marked with a painted dot or flagging hanging on a branch.

TREE DIAMETER	EST. QUANTITY	SPECIES
Vegetation < 4"		
Tree(M) 4-11.8"		
Tree(M) 12-23.9"		
Tree(M) 24-35.9"		
Tree(M) 36-47.9"		
Tree(M) > 48"		

Inspector comments: _____

What to expect after tree work is completed:

- Wood larger than 4" diameter will be left on site in lengths to be determined by PG&E tree contractor.
- Foliage and wood less than 4" diameter will be chipped on site if accessible to a brush chopper. Chips may be left on site.
- When the site is not accessible to a brush chopper, material will be "lopped and scattered" and left on site.
- After the tree is cut down, stump(s) will be treated with an EPA-approved herbicide, where appropriate, to control regrowth.
- Tree stumps will not be removed.

*Hazard material left on site will be left in accordance with the regulations.

Have questions? Contact your PG&E representative:

Representative name: _____
Company: _____
Phone: _____ Communication date: _____

Please visit pge.com/trees to learn more about trees and powerlines or call 1-800-PGE-5000.

For translated support in over 250 additional languages, contact PG&E at 1-844-763-4289.
Para ayuda en español, por favor llame al 1-800-660-4789.
お問い合わせ先: 1-800-893-7052
お問い合わせ先: 1-800-298-8438

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Summary of the Two Projects

Work is conducted on EPSS enabled circuits

Identify and Prescribe work for all risk trees

Conduct a Level 1 inspection of assigned work area (DIP conformance)

Use a 15-month timeframe to inform Level 2 prescriptions

Reactive Project Inspection

Looks at current outage causing trees

Minimum of 5 spans in all directions of the outage span

Level 2 inspection of all same species with similar symptoms **and** conditions as the outage tree

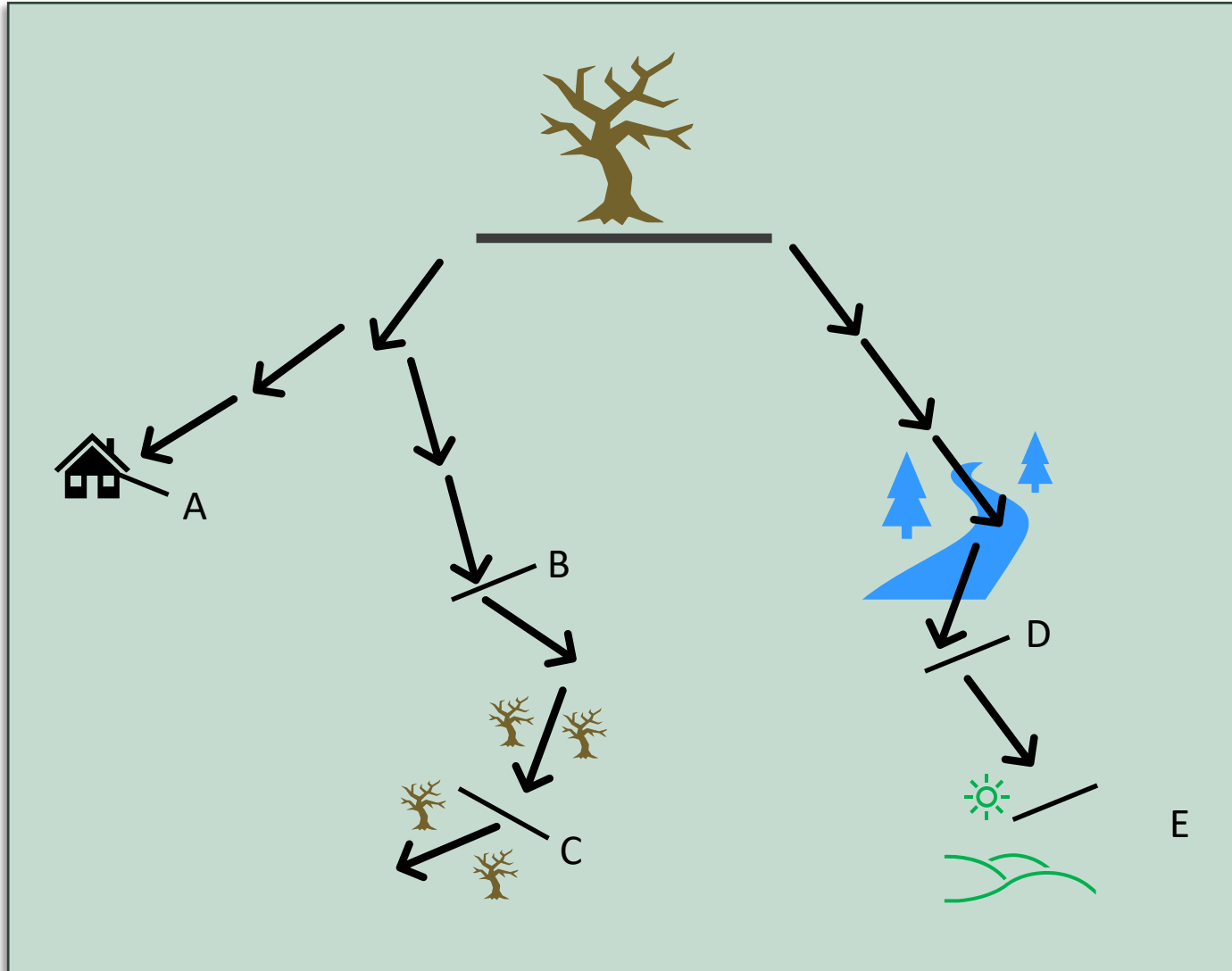
Proactive Project Inspection

Looks at historical outage data found at Outage Power Bi

Entire Circuit Protection Zone (CPZ)

Level 2 inspection of all overhanging trees

Knowledge Discussion



Define patrol area:

All trees within **AT LEAST** 5 spans ALL directions of the outage tree

What would be an appropriate stopping point?

- Grassy field? SSD? End of Tap? Terrain feature?



Quiz questions

Quiz questions for VMOM

Scan the QR code shown on the screen



Constraints Management





Constraints Management

Agenda

1. Constraints Management Team Overview
 - Purpose, Goals
2. Constraints Management
3. Safety, Customer Service, Record Keeping
 - Procedures
3. Constraints Management within One VM - Overview
4. Constraints Categories and Subcategories within One VM
5. Constraints Field Use
6. Documenting Contact Attempts
7. Viewing Constraints in the Back Office
8. Managing a Constraint
9. Main Takeaways and Q&A



Constraints Management Team

CMT PURPOSE AND GOALS

Primary Goals



Establish standardized constraint resolution processes and procedures, including the escalation processes



Maintain ownership over all constraints reporting and analytics



Serve as the LOB liaison for other PG&E partners including Environmental, Customer Outreach and more



Serve as a support resource for Vegetation Operations

Secondary Goals

- Permitting support including field, packet creation and more



2. Constraints Management

Safety & Compliance

- Ensuring that we are working trees that have been identified as needing work in a timely manner
- Completing work in the right way

Customer Service

- Maintaining and improving relationships with customers
- Ensuring we notify customers of upcoming work and communicate the reasons why we need to perform this necessary work

Record Keeping Requirements and Best Practices

- We need to show what steps we are taking to resolve constraints



2. Constraints Management

Procedures/Bulletins

TD-7102P-16 – VM Riparian Review Procedure

- Ensure compliance with local, state, federal, and tribal environment laws and regulations

TD-7102P-04 – VM Interference Procedure

- Provides step-by-step instructions to follow when a customer/property owner interferes with Vegetation Management work.

TD-7110P-01 – VM Bird Nest Procedure

- Informs Pacific Gas and Electric Company (PG&E) personnel of their responsibilities for carrying out protection measures, notification, and approval processes when working near nests

TD-7102P-01-B038 – VM Encroachment Permit Bulletin

- Discusses how to request a site-specific encroachment permits which can be required for work on Caltrans and railroad agency managed lands that are not included in annual permits



3. Constraints Management in One VM - Overview

Within One VM, you can:

- Create constraints from the field
- Manage constraints from the back office/desktop
- Document customer interactions and other actions taken on constraints cases
- See summary reports, list views, and overviews of local constraints

5. Constraints Field Use

Constraint Field Use

Creating Constraints in the Field

There are multiple ways to create a constraint using a mobile device, depending on your role and One VM persona:

- On a parcel
- On a veg point (tree) prescription
- On a Veg Work Item (Tree Crew work)



NOTE: You can have more than one constraint per veg point. For example, if you are working on Bureau of Land Management (BLM) land and identify a nest on a tree in a waterway, you will have three constraints (Agency, Nest, Riparian).



4. Constraints Categories

Within One VM Numerous Constraint Categories and Subcategories Exist:

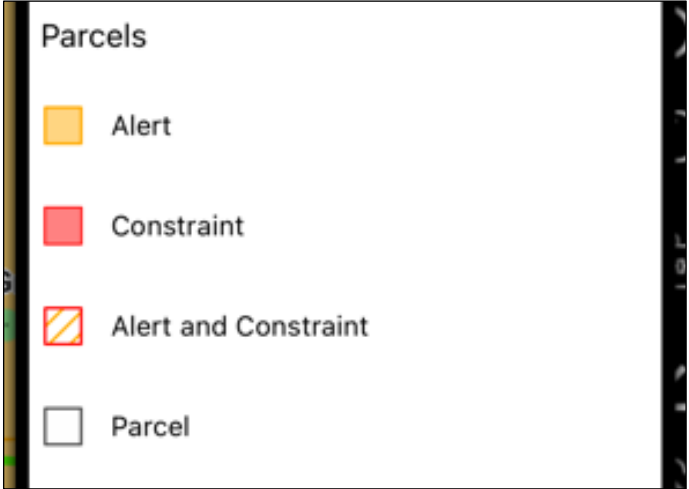
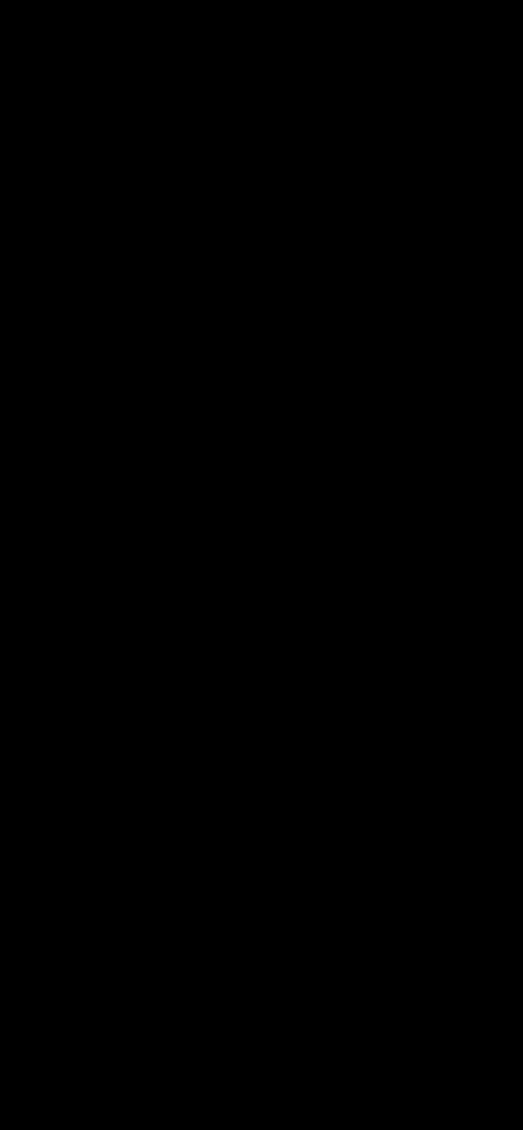
- Customer
 - Work Refused, Hire Own Contractor
- Agency Managed Lands
 - USFS, State Parks, Caltrans, City/County
- Environmental Review
 - Nest, Riparian
- Operational
 - Clearance Request

[Utility Vegetation Management - TRA-0034-V03-One-VM-Constraints-Management-Reference-Guide.pdf - All Documents \(sharepoint.com\)](#)

Agency Managed Lands		
Constraint Category	Constraint Sub Type	Applicable Object
Agency Managed Lands	USFS	Parcels, Veg Work, Prescription
	NPS	Parcels, Veg Work, Prescription
	BLM	Parcels, Veg Work, Prescription
	BOR	Parcels, Veg Work, Prescription
	State Parks	Parcels, Veg Work, Prescription
	Coastal Commission	Parcels, Veg Work, Prescription
	Open Space/Regional Parks	Parcels, Veg Work, Prescription
	Utility/water districts	Parcels, Veg Work, Prescription



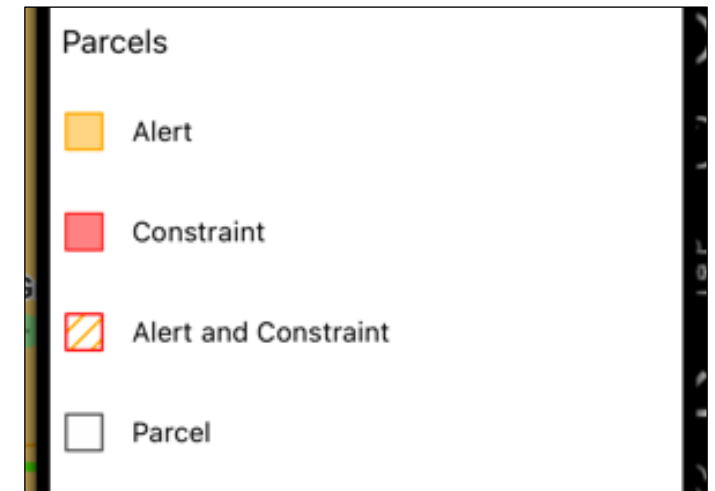
5. Constraints Field Use – Creating a Parcel Constraint



5. Constraints Field Use – Creating a Parcel Constraint

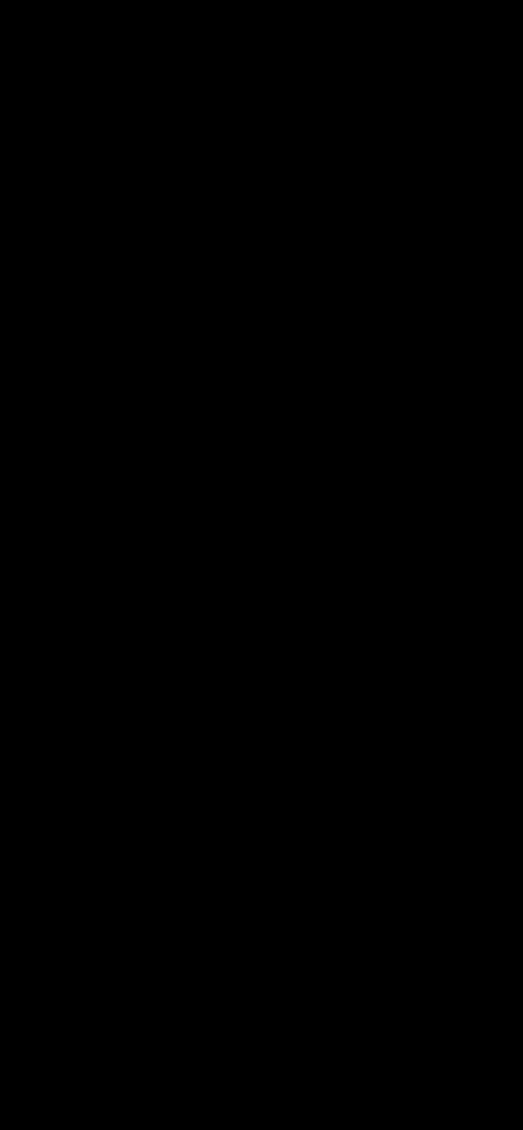
Key Takeaways

- Ensure the correct layers are turned on (e.g. Parcels)
- Initial Assignee - Select 'Assign to Me'
Allows for in-field management and/or effective back office management
- Constraint Comments is important –
What is the main issue here?
- Pay attention to symbology on parcels






5. Constraints Field Use – Creating a Prescription Constraint




Veg Points

Veg Point Prescription

 Constrained

 Rejected

 Inspected, No Work

 Inspected, Prescribed

 Prescription Approved

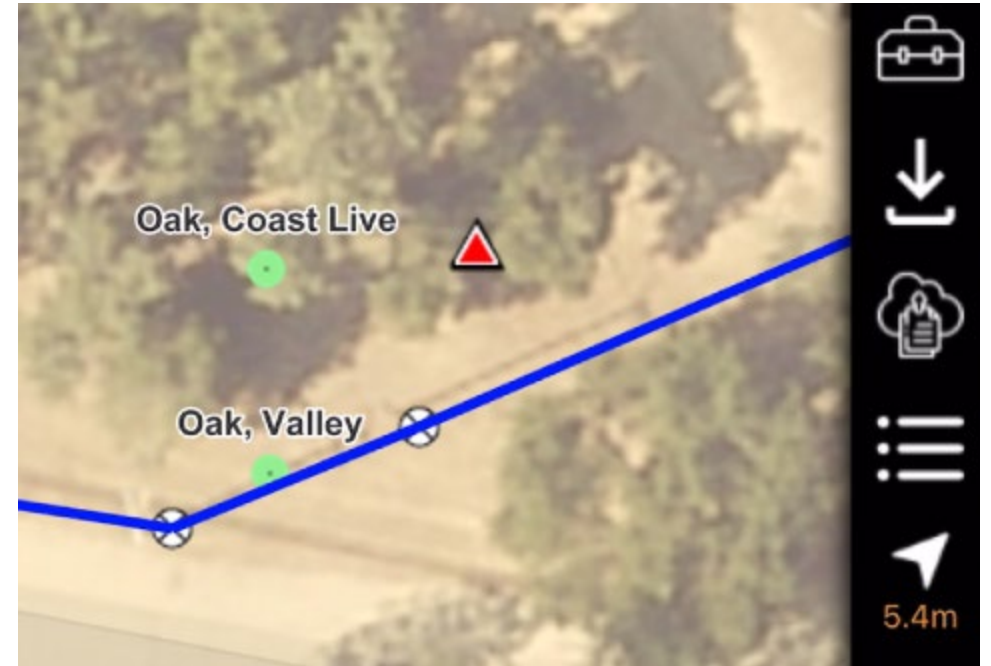
 Veg Work Scheduled

 Veg Work Completed

5. Constraints Field Use – Creating a Prescription Constraint

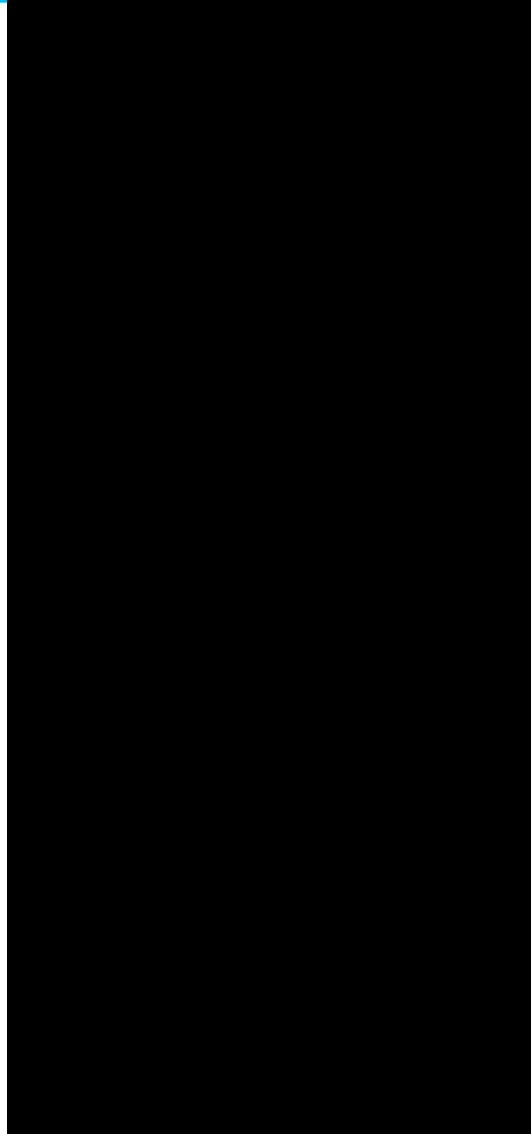
Key Takeaways

- Initial Assignee - Select 'Assign to Me' Allows for in-field management and/or effective Back Office management
- Constraint Comments is important – What is the main issue here?
- Pay attention to symbology on prescriptions





6. Documenting Contact Attempts



6. Documenting Contact Attempts

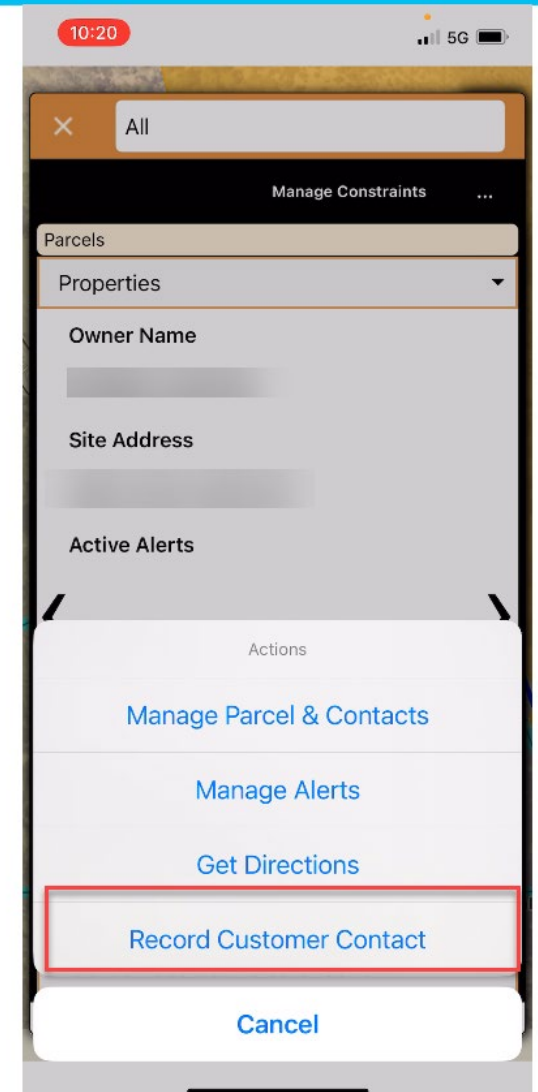
Key Takeaways

- Record every Customer Contact attempt
- Enter detailed and specific notes

NOTE: At minimum, an ideal record should include:

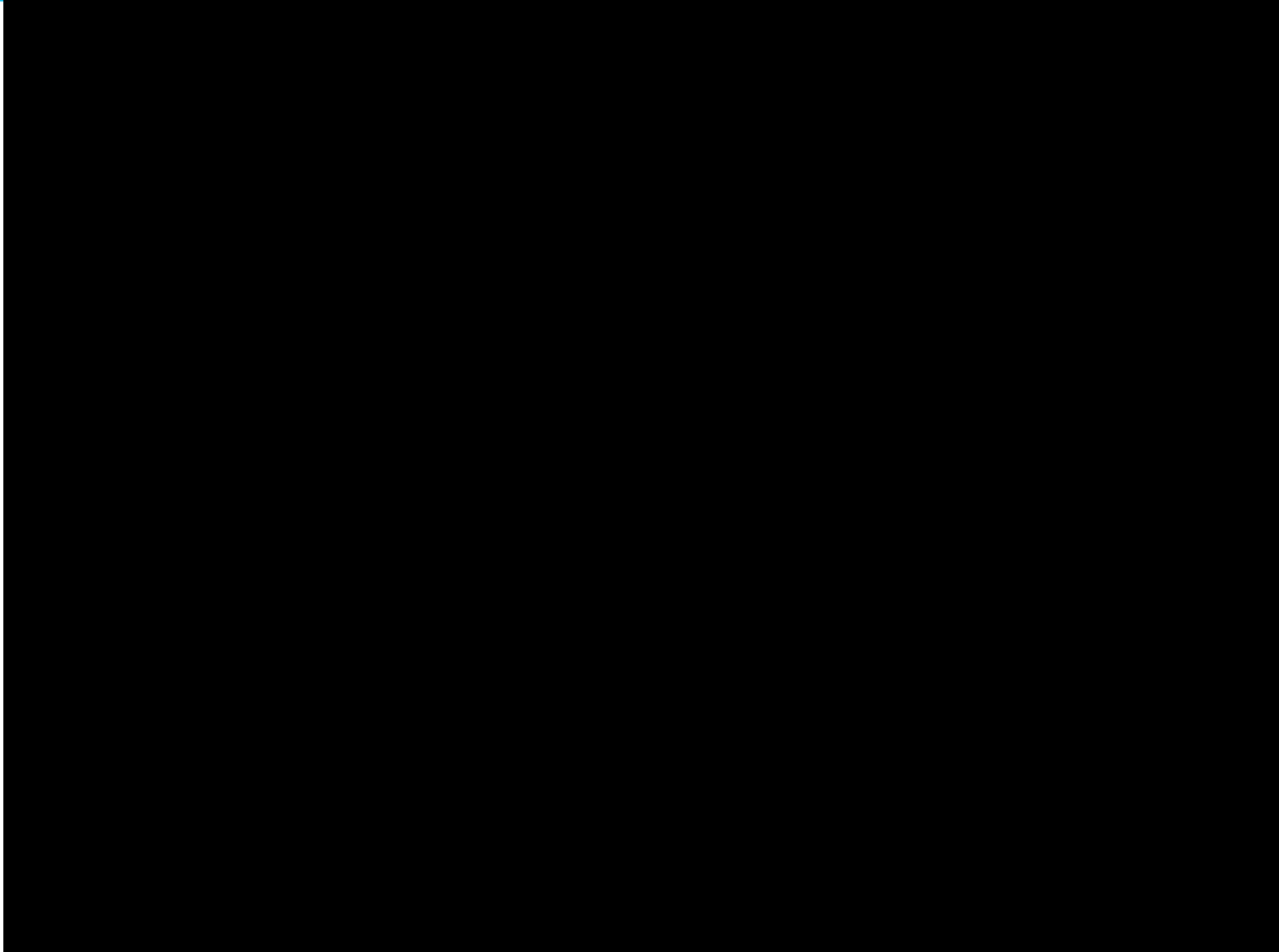


- **Who** you attempted to contact
- **When** you attempted contact (date)
- **What** method of contact was used, what was discussed, and what the outcome was





8. Managing a Constraint – Adding Customer Contact Attempts and Details





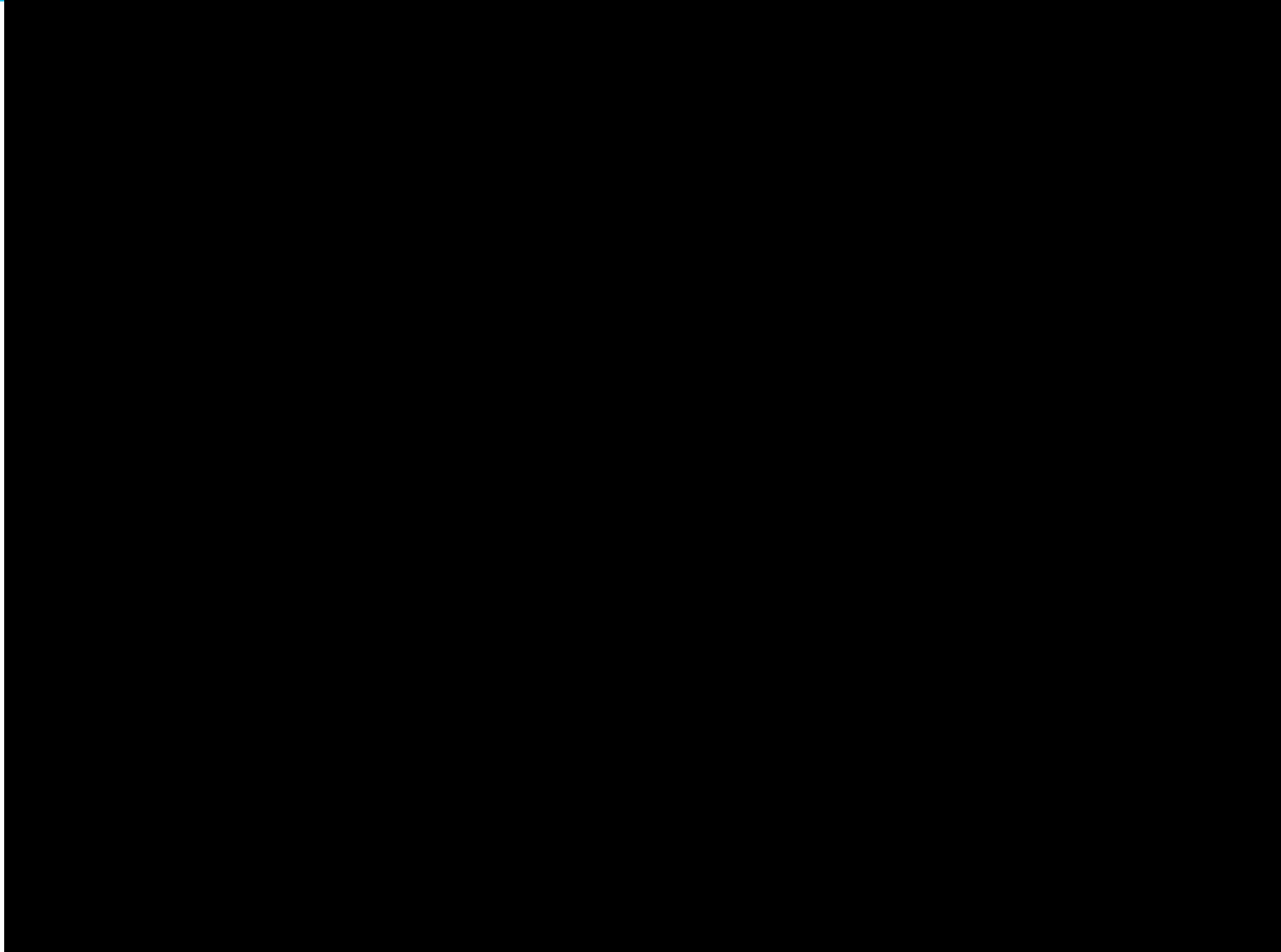
8. Managing a Constraint – Adding Customer Contact Attempts and Details

Key Takeaways

- Create a “New Task” to record each update to a constraint
 - Don’t use the “feed” tab
- Look through “Open Activities” and “Activity History” to review past updates
- **Be as thorough and detailed as possible**



8. Managing a Constraint – Uploading Documents





8. Managing a Constraint – Uploading Documents

Key Takeaways

- Upload **all** relevant documents
 - Any letter sent to a customer
 - Any land rights documents
 - Any long, written communications (e.g. emails)
- Label documents clearly

9. Key Takeaways

- **Main Takeaway 1**
 - Document, document, document
- **Main Takeaway 2**
 - One VM has powerful yet complex tools for constraints management
- **Main Takeaway 3**
 - **Constraints Management Team is here to support you**



9. Key Takeaways, Q&A

Immersive Reader

Share

One VM Info Hub

Published 1/17/2024

Vegetation Management (VM) Technology has embarked on a project to deliver a new, single software platform that incorporates all VM work management systems into one. Called One VM, it will provide map-based work execution, monitoring, and validation application available on iOS mobile devices.

The One VM Project is part of the Strategic Priorities List for VM Leadership Wildfire Mitigation Program centralized vegetation inventory system.

One VM User Access Live Help line (650) 985-1213; 6 a.m. - 4 p.m. Mon-Fri (bi-lingual)

- Password resets, get access (back office and/or field), unlock account, set up of SFS Mobile app with the correct URL, install Salesforce Authenticator and connecting it with SFS Mobile, and install Lemur and registering.

What's New?

12/20/23: Enhancements and fixes deployed to One VM. For details, refer to the One VM Enhancements Release Tracker in Quick Links.

9/25/23: Phase 2 Completed, Vegetation Control (VC) is "Live" in One VM. VC Tech Field Crews began using One VM Oct. 9.

One VM User Adoption Dashboard

One VM Update: Sandbox and Production Access Login Support Sessions.

VM Support is available to assist with trouble-shooting user access to One VM for the implementation of the Routine and Tree Mortality programs. Four sessions a week are available. You must register in advance to attend.

Quick Links

- Get Access to One VM & Training Requirements
- Routine & 2nd Patrol User Guides, Videos**
- Vegetation Control User & Training Guides
- One VM Enhancements Release Tracker
- SMM Mobile Device Requirements (12/2/22)
- Need help? Contact VM Support

One VM Power BI

- Available on VM Operations website, Reports
- One VM Power BI Report Job Aid (10/2023)
- One VM Power BI Reporting Glossary (10/2023)



One VM Routine & 2nd Patrol: User Guides, Videos, & more

What's here:

- User Guides, Glossary, Quick Reference Cards
- Frequently Asked Questions (FAQs)
- How-To Videos (English and Spanish versions)

Note: Information on this page applies only to **Routine Distribution & Second Patrol programs**.

One VM User Access Live Help line (650) 985-1213 6 a.m. - 4 p.m. Mon-Fri (bi-lingual)

- Password resets
- Get access (back office and/or field)
- Unlock account
- Set up of SFS Mobile app with the correct URL
- Install Salesforce Authenticator and connecting it with SFS Mobile.
- Install Lemur and registering

One VM Installation Guides

- PG&E Sandbox Access via MEA (10/5/22)
- SFS & Lemur Apps Sandbox Install (1/17/24)
- SFS and Lemur Apps Production (11/13/23)
- Lemur Pro Read-Only Access: Production (6/16/23)

Tree Crew Training Guides

- Tree Crew Field Guide (8/2/2023)
- Foreman Practice Activity Guide (English 3/20/2023)
- Gen Foreman Practice Exercises for Sandbox
- Video: Assigning Work to Tree Crews Using Practi...
- Foreman Practice Activity Guide (Spanish 3/29/23)
- Tree Crew: Video QR codes (6/12/23)

User Guides

- One VM Desktop Reference Guide (12/3/23)
- Constraints Management Reference Guide...**
- VMI Constraints & Alerts User Guide (11/13/23)

Instructor/Participant Training Guides

- One VM Training Agenda VEGM9105 ILT for...
- One VM Instructor/Participant Training Guides
- One VM Training Documents by Role (10/5/22)

Quick Reference Cards (QRCs)

- Map Layers & Symbolology (11/13/23)

Additional Guides

- One VM Tool Glossary of Terms (10/13/2023)
- Mobile Synchronize User Guide (7/5/23)
- One VM Power BI Report Job Aid (10/2023)



9. Q&A

Any questions?

Thank you!

Annual Refresher VEGM-9073



One VM Adoption

Implemented in the following programs

- Routine
- Second Patrol
- Vegetation Control

Additional programs continue to be added





Procedure Revision

Our document governance team was very active in 2023 revising many of our procedures and guidance documents.

It is important to always work from an electronic document to ensure you are using the most recent version.

TECHNICAL INFORMATION LIBRARY

Document Number: td-71

NEW UPDATED BULLETIN HAS HAS BULLETIN

Hide FRO Documents: Show New Documents: Show Updated Documents: Line of Business: All

Document Number	Publication Date	Document Title
TD-7110P-01-AB01	12/15/2023	Attachment 1 - General Information
TD-7115P-01-AB01	09/06/2023	Attachment 1 - Remote Sensing Project Template
TD-7116P-01-AB01	10/23/2023	Attachment 1 - Wood Management Marking Guidelines
TD-7101M-02	07/05/2023	Chapter 2 - Vegetation Management Tree Risk Assessment
TD-7110P-01-JA01	12/15/2023	Documenting Bird Nests in VMPI, ITS, and VMD
TD-7101M-02.6-01	07/05/2023	Field Companion - Hand Pull Testing
TD-7110P-01-JA02	12/15/2023	Identifying Bird Nests
TD-7102P-16-JA01	12/15/2023	Identifying Riparian Areas
TD-7102P-16-AB01	12/15/2023	Riparian Programmatic ERTC Thresholds
TD-7101M-02.6	07/05/2023	Safety Supplements - Tree Risk Assessment
TD-7103P-11-JA02	12/20/2023	Transmission Vegetation Management Annual LIDAR Mileage Reporting
TD-7103S	09/22/2023	Transmission Vegetation Management Program
TD-7110P-01	12/15/2023	Vegetation Management Bird Nest Procedure
TD-7102P-12	11/21/2023	Vegetation Management Customer Care and Billing (CC&B) Case Procedure
TD-7102P-06	08/10/2023	Vegetation Management Distribution Inspection Mapping Procedure
TD-7115P-01	09/06/2023	Vegetation Management Distribution Remote Sensing Detection Procedure
TD-7115S	09/06/2023	Vegetation Management Distribution Remote Sensing Detection Standard

The technical information library or the guidance document library should be used as the source of truth for all PG&E published procedures and documents.



Core Share contains convenience copies of guidance documents and other resources.

Core share allows for the downloading of documents for offline use.

Useful for field locations without cell coverage.



Revised Procedures

- Many operational procedures were revised to continually improve on our efforts to better provide safe and reliable energy to our hometowns
- Some revised procedures are:
 - TD-7102P-01 Distribution Inspection Procedure
 - TD-7103P-01 Transmission Inspection Procedure
 - TD-7102P-16 Riparian Review Procedure
 - TD-7110P-01 Bird Nest Procedure
 - TD-7102P-04 Interference Procedure

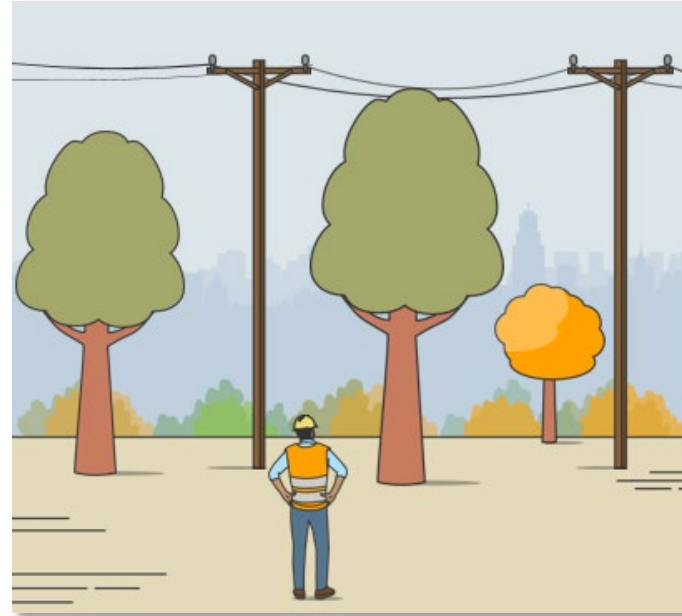


Industry Standard Practices

Both the Transmission and Distribution Inspection Procedures reference arboriculture industry standard practices including using level 1 and level 2 tree inspections.

If while conducting a level 1 inspection an inspector suspects a tree may have one or more of the qualities in the guide, then the inspector must perform a Level 2 assessment of that tree

- References the use of the Hazard Trees/Vegetation Clearance section of the California Power Line Fire Prevention Field Guide Produced by the California Department of Forestry





New Notice of Tree Work Form

NOTICE OF TREE WORK

Tree work on your property is needed to ensure safe and reliable electric service. This work will be performed at no cost to you and will be done by one of our contractors. Work may involve pruning, trimming, cutting to the ground and/or treatment of trees that may impact high-voltage lines.

Property address: _____
Permit ID: _____

Trees identified to be worked were marked with paint or colored flagging.
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Tree(s) > 48"		

Inspector comments:

What to expect after tree work is completed:

- Wood larger than 4" diameter will be left on site in lengths to be determined by PG&E tree contractor.
- Foliage and wood less than 4" diameter will be chipped on site if accessible to a brush chopper. Chips may be left on site.*
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Phone: _____ Communication date: _____

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Para ayuda en español, por favor llame al 1-800-443-4799.
客戶電話/電話服務熱線: 請撥 1-800-892-9525
客戶電話/電話服務熱線: 請撥 1-800-290-8138

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The Notice of Tree Work forms were updated and converted into a large door hanger.

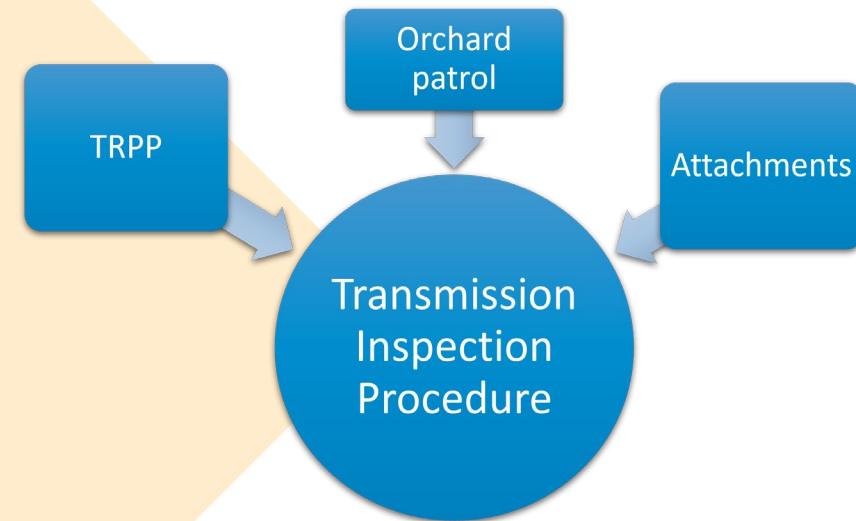
Customers are now notified of the tree work and signatures are no longer required.



TIP changes

Many of the previously existing transmission documents were revised and compiled into the new Transmission Inspection Procedure including the orchard patrol procedure.

- TD-7103P-01, “Transmission Non-Orchard Routine Patrol Procedure,” rev. 2, 10/01/2016
- TD-7103P-02, “Transmission Orchard Patrol Procedure,” rev. 2, 10/01/2016
- VEG-2001P, “Transmission Routine Non-Orchard Patrol Procedure,” rev. 1, 06/18/2014
- VEG-2002P, “Transmission Orchard Patrol Procedure,” rev. 1, 06/18/2014



Riparian Reviews Changes



VMI will determine if a riparian area exceeds Riparian Programmatic ERTC Thresholds

- Factoring in
 - Canopy shade
 - Location of tree within bed/bank/channel
 - Amount of ground disturbance
- Supervisor or VPM will review and submit the permitting request package when necessary




Bird Nest Procedure TD-7110P-01 Updates


PG&E **Identifying Bird Nests** TD-7110P-01-JA02
Publication Date: 12/15/2023, Effective Date: 02/15/2024, Rev: 1

European Starling

- About 7.5 to 8 inches tall. Black with iridescent green-purple gloss, white spots, and a yellow bill.
- Cavity nester and may nest in natural (i.e., trees) or artificial (i.e., buildings or pipes) holes. Nests are constructed of grasses and twigs. May nest alone or in groups.
- Found in cities, fields, orchards, and woodlands.
- Between 4-8 eggs (average 6), 1 inch in length with blue-white or green-white shell.



European Starling: Mike Rochford, 2021



European Starling Nest

New Job aid to help identify nests of exempt species and signs of activity

Simplifies outcomes for most nest scenarios

The addition of new Avian Protection Program Manager position who must be notified when nests might be disturbed by emergency work.

The nest is an inactive non-raptor nest or the nest of an exempt species per TD-7110P-01- JA02 "Identifying Bird Nests".

The nest is an eagle nest, raptor nest, colony/rookery, or active non-raptor nest and the worksite IS or IS NOT located close enough to remove or disturb the nest.

Training Update





New VM Basics courses

A new curriculum of web-based trainings has been developed to provide the most updated learning experience

The new courses aligns with the procedural changes and quick reference guides to support on the job development and training.

All new employee or existing inspectors will be profiled with this curriculum.

- VEGM-0155** **Intro to VM**
- VEGM-0161** **VM Patrol Safety**
- VEGM-0165** **PG&E Electrical Facilities**
- VEGM-0170** **Tree Basics (Evaluating Tree Risks)**
- VEGM-0175** **Tree Risks to Facilities (Identifying Tree Risks)**
- VEGM-0180** **VM Inspection Fundamentals**
- VEGM-0185** **Prescribing Tree Work**
- VEGM-0190** **Abnormal Field Conditions**
- VEGM-0195** **MWS Exemptions**
- VEGM-0198** **Customer Relations**



SLP transitioned to My Learning Profiling

Structured Learning Path is being replaced by MyLearning Profiling System

- This will enable tracking of compliance and completion dates. Additional Instructor Led Training courses, How To Videos, and Refresher trainings will now be utilized.

VMI Audits & Development Checklist replaced with Supervisor Onboarding Checklist and Monthly Development Check-in Process



ISA Learning and CEU opportunities



As part of our commitment to professional development, we want to help everyone strive towards learning more about arboriculture and obtaining their Arborist Certification

More of our calls, Trainings, and benchmarks will have pre-approved CEU credits available.

- Weekly Safety Calls
- Quarterly Benchmarks
- Other In Person Trainings

The training team is also partnering with the ISA to provide more opportunity for TRAQ courses

Helpful Inspection Guides and Tools





Quick Reference Guides QRGs



Vegetation Management

Tree Inspection & Prescribing Work Quick Reference Guide (QRG)

The Tree Inspection and Prescribing Work Quick Reference Guide is a summary of this document in chronological order of how an inspector may encounter field reference document to support the procedures as well as the web-based Tree Defects, Inspection Fundamentals, and Prescribing Tree work.

It can be used by any VM employee or contractor conducting inspections at facilities as a training tool. Supervisors are encouraged to use this as a reference document via the CORE app for the most current version as it is intended to

This guide **does not** replace published procedures or guidance documents in their entirety and take precedence. Contact your supervisor with questions.

Prepare for each Work Packet or Service Appointment

- Review **ALL** parcels for alerts, comments, access instructions, specifications
 - Notify and coordinate access for LG, AX, BD, DG, NF, and PI-NF
 - Enterprise Alert Level 1 - DO NOT enter property without assistance
 - Enterprise Alert Level 2 – Call-ahead customers or other critical situations
 - Plan travel routes and identify Level 1 alerts or safety issues to coordinate
- Review current inspection maps, pre-patrol reports, and historical data for specific challenges that may be encountered during an inspection.
- Review the Agency Layers to determine if your work locations may be impacted.
- Review the Environmental layers: Cultural Resources, Distribution V Constraints, VM Limited Operation Periods, and the species and habitat.
- Review the Habitat Conservation Plan (HCP) layers to determine if you are in a Map Book Zone (MBZ) or a Hot Book Zone (HBZ) which may require a permit.
- Review Programmatic and Site-Specific Environmental Release to Construction.
- Identify the Fire Responsibility areas for the work locations and the fire risk.
- Review cell phone coverage maps to identify areas without cell reception.
- Identify the closest hospitals, medical services, and fire departments.

Includes best practices collected from around the system and help provide alignment as we execute our work.

These guides do not replace the procedures but are a helpful tool to help understand how procedures interact with each other.

These guides were developed as a tool for new learners but are encouraged to be used by all field personnel. They are living documents that will be updated as our programs evolve.

Available on VM SharePoint and the Core Share application.



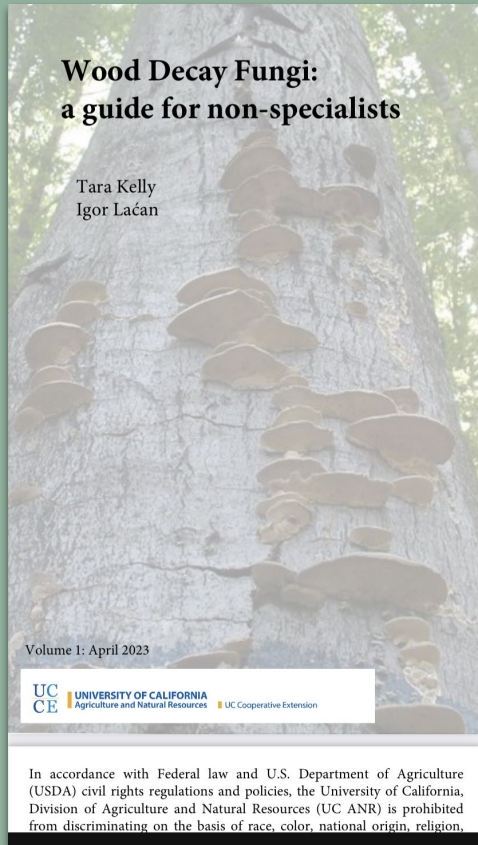
Tree Species and Wood Decay Fungi Guide



UNIVERSITY OF CALIFORNIA
Agriculture and Natural Resources | UC Cooperative Extension



CAL POLY



PG&E partnered with industry leaders and California Universities to develop guides to support knowledge of trees in our service territory.

These guides help you familiarize yourself with the species of trees and common wood decay fungi

The most updated versions of these guides can be found on the Core Share application.



Tree Identification Resource Guide

Select a Region:

- Bay
- Central Coast
- Central Valley
- North Coast
- North Valley
- Sierra

This guide is intended to help you recognize the tree species common in each region. Some of the most common trees (based on pruning data) are listed for each region.

Select a region, then select a tree to view details on the Cal Poly SelecTree website.

This document also provides a guide for

Wood Decay Fungi Guide

Tree Host Key


Conifer Specific usually not on broad-leaf trees



Veiled polypore
Cryptoporus volvatus, page: 24




Red belt fungus
Fomitopsis pinicola, page: 30



Quinine fungus
Laricifomes officinalis, page: 31



Velvet top
Phaeolus schweinitzii, page: 35



Red ring rot
Porodaedalea pini, page: 37

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Prompt Action Recommended if Any of These Fungi Are on a Standing Tree

"Veiled polypore"
Page: 27



Yellow, brown, or white golf ball-like conks

"Cramp balls"
Page: 28



Black globe-like balls

"Split-gilled fungus"
Page: 29



Small hairy white-brown brackets

"Turkey tails"
Page: 30



"Turkey tail." Shelf-like, tough and leathery, multi-colored to pale gray

Inotus andersonii, Page: 31



Sulfur yellow to pale sheet-like mat

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"Veiled polypore" "Pouch fungus" *Cryptoporus volvatus*



Concern Level: Very High
Prompt Action recommended - tree part is dead



C. volvatus

Identifying Features
Small, round golf-ball shaped conks with pores and no stem. Initially a yellow-brown color that fades to white or brown with age.




C. volvatus on a Douglas Fir *C. volvatus* on a conifer

Notes
Fruiting bodies appear on dead tree parts and likely indicate tree mortality.

Common on conifers:
Ponderosa pine, Douglas fir

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Commonly found in:
Fire damaged forests, Mixed conifer forests, North Coast, Sierras, Southern CA

Partnering with industry experts the wood decay fungus guide can better help you determine the species and the risk hazard related to the fruiting body of the fungi you may find during inspection.

The guide includes many of the common fungi species that are a detriment to tree health and some helpful identification characteristics

To help identify a fungi, there is a small map of California for each fungi showing the likely hood of finding that fungi in a specific area.

Tree Identification Resource Guide

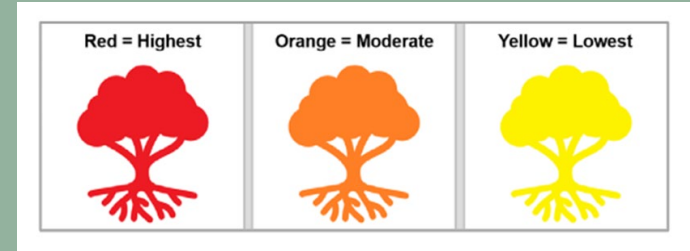
Acacia, Blackwood	
Cedar, Deodar	
Cypress, Italian	
Cypress, Monterey	
Eucalyptus, Blue Gum	
Fir, Douglas	
Laurel, California Bay	
Liquidambar (sweet gum)	
Madrone	
Oak, Black	
Oak, Blue	
Oak, Coast Live	
Oak, Tan	

UFEI

Enter a tree name...

TREE CHARACTERISTICS ▾

- Tree shape: Rounded
- Maximum tree height: 120 feet
- Canopy width: 30-80 feet
- Growth rate: ~36 in/year



Tree Identification Resource Guide

Select a Region:

- Bay
- Central Coast
- Central Valley
- North Coast
- North Valley
- Sierra

The tree species identification resource guide shows two key pieces of information. Tree growth / identification as well as tree failure profile:

Selecting each species will take you to the Cal Poly SelecTree site for more details regarding the growth rates identification and ecology of the species.

For tree failure, each tree shows a failure profile of where failure is likely: canopy, the trunk, or root system. With Red being a more likely location of a failure.

Data was obtained from our historical outage data and is unique by division.



Quiz Questions

Quiz Questions for Annual Refresher

Scan the QR code shown on the screen

Answer all questions

