BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

Order Instituting Rulemaking to Implement Electric Utility Wildfire Mitigation Plans Pursuant to Senate Bill 901 (2018).

Rulemaking 18-10-007 (Filed October 25, 2018)

PACIFICORP'S QUARTERLY REPORT ON 2020 WILDFIRE MITIGATION PLAN FOR JUNE 12, 2020 THROUGH SEPTEMBER 9, 2020

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September 9, 2020

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PacifiCorp d/b/a Pacific Power ("PacifiCorp" or "company") submits this Quarterly Report on 2020 Wildfire Mitigation Plan for June 12, 2020 through September 9, 2020 ("Quarterly Report"). This Quarterly Report addresses the Class B conditions set forth in Resolution WSD-002 and Resolution WSD-008 issued by the Wildfire Safety Division (WSD) and ratified by the California Public Utilities Commission (Commission) on June 11, 2020.

Introduction

In making a conditional approval of PacifiCorp's 2020 Wildfire Mitigation Plan, the Commission required PacifiCorp to address aspects of the plan that the Wildfire Safety Division determined required additional information or monitoring through Quarterly Reports. WSD-002 sets forth a number of guidelines which apply to all utilities, and WSD-008 sets forth the guidelines applicable to PacifiCorp only. The resolutions require that Class B Deficiencies be addressed in Quarterly Reports. (Ordering Paragraph No. 8, WSD-002 at 45; WSD-008 at 4.) Class B Deficiencies are described as the result of "insufficient detail or justification provided in WMP." (WSD-002 at 17; WSD-008 at 4.) Each Deficiency has a corresponding set of detailed

Conditions. In this Quarterly Report, PacifiCorp responds to each of the Class B deficiencies and corresponding Conditions.

I. <u>PacifiCorp's June 12-September 9, 2020 Quarterly Report Responds to All Class B Deficiencies and Corresponding Conditions.</u>

Resolution WSD-002 identified ten Class B Deficiencies applicable to all utilities, including:

Guidance-1, Lack of risk spend efficiency (RSE) information

Guidance-2, Lack of alternatives analysis for chosen initiatives

Guidance-4, Lack of discussion on PSPS impacts

Guidance-5, Aggregation of initiatives into programs

Guidance-6, Failure to disaggregate WMP initiatives from standard operations

Guidance-7, Lack of detail on effectiveness of "enhanced" inspection programs

Guidance-9, Insufficient discussion of pilot programs

Guidance-10, Data issues – general

Guidance-11, Lack of detail on plans to address personnel shortages

Guidance-12, Lack of detail on long-term planning

WSD-008 identified five additional Class B Deficiencies applicable to PacifiCorp specifically, including:

- PC-1, PacifiCorp's WMP does not report adequate planning for climate change
- PC-2, PacifiCorp has not demonstrated effective weather station utilization
- PC-3, PacifiCorp did not explain how it would track effectiveness of its covered conductor initiative
- PC-4, PacifiCorp's WMP lacks a QA/QC program for inspections
- PC-6, PacifiCorp does not have a specific data governance wildfire mitigation program

Each of these Class B Deficiencies, and the correlating Conditions specified with respect to each individual Deficiency, are addressed in detail below. This filing also includes the following attachments:

Attachment A – Alternatives to Initiatives (Guidance 2 Worksheet)

Attachment B – Initiative Level Detail (Guidance 5 and 6 Worksheet)

Attachment C – WSD GIS Data Schema Status Report

Attachment D – PacifiCorp Weather Stations

Attachment E – PacifiCorp Slides 2020 Wildfire Mitigation Plan GIS and Data Schema Guidance-1, Lack of risk spend efficiency (RSE) information

General Response to Deficiency: PacifiCorp agrees that a risk spend efficiency analysis is beneficial in determining whether resources are effectively allocated to initiatives that provide the greatest risk reduction benefits per dollar spent. Indeed, efficiently reducing wildfire risk is the top priority in PacifiCorp's wildfire mitigation efforts. PacifiCorp understands the WSD's desire for additional information to evaluate the efficacy of various mitigation strategies. To this end, PacifiCorp is developing new, more granular risk assessment tools and methodologies that will support more concrete and element-comparable risk spend calculations. The methodologies to be used in making those calculations are discussed at greater length below, in response to the specific conditions related to this Guidance-1. In context, however, certain over-arching issues are appropriately addressed first.

The risk spend efficiency analysis is rooted in certain assumptions, which may change as new and better information is obtained, including through this iterative process led by the WSD. The Guidance-1 conditions themselves capture the core considerations in a risk spend efficiency analysis. As indicated in conditions (i) and (ii), to complete any reasonable RSE assessment, we must be able to answer two fundamental questions:

- How much does an initiative reduce the probability of an ignition?
- If a potential ignition is avoided, how much damage is avoided?

While the initial questions themselves are relatively easy to frame, we would be remiss to suggest that such questions are easily answered. Earlier iterations of PacifiCorp's wildfire mitigation plans and General Rate Case filings and supporting documents have been cautious in

asserting risk spend efficiency conclusions in mathematically certain terms, precisely because of this difficulty.

Above all, despite the universal desire to bring numerical certainty to the risk spend calculations, PacifiCorp must emphasize that some degree of qualitative judgment has to be employed in making certain assumptions. In other words, there is some 'art' behind any calculations realistically envisioned in a risk spend efficiency analysis of various wildfire mitigation initiatives. Considering the complexity of the questions presented (and in many cases, the lack of history to support precise calculations), this is unavoidable.

As a threshold issue, there is limited data on actual ignitions and/or near-misses to support conclusions solely based on ignition data. As recognized by the WSD, it will take years to build more meaningful data sets on ignitions. For PacifiCorp, this issue is compounded by having a smaller data set generally, compared to other utilities. Fortunately, there have been few utility-related ignitions in PacifiCorp's California service territory compared to other areas of the state. PacifiCorp takes each ignition seriously but is also hesitant to overstate the statistical significance of an individual ignition event in such a small data set. Localized vegetation conditions, unique weather conditions and availability of response personnel, including fire suppression resources, make a huge difference. So too does chance itself.

Inclusion of near-miss events is important for building these data sets, and PacifiCorp appreciates the efforts to further refine the meaning of near-misses. Nonetheless, recognizing that any spark could result in an ignition depending on where and when it lands, many "near-misses" will remain unrecorded simply because there was no durable (or enduring) physical evidence of the near-miss. Even assuming these complex variables can be modeled – which PacifiCorp is attempting to do with ever-increasing sophistication and granularity – the significance of chance

remains daunting, reinforcing the need for longer-term and more broadly developed data before placing too much weight on any particular available data set.

In addition, even if there is reliable data showing clear trends in ignition risk, attributing those trends to a particular initiative can be difficult at best (and misleading at worst); we must be cautious about inferring correlation and causation relationships that have limited concrete evidence. There is limited availability of lab-developed data using proven scientific methods designed to assess the effectiveness of a specific mitigation strategy. In real world applications, there are often many variables in play, including environmental factors and other mitigation work. Even assuming data is accurate and robust, caution would be warranted in drawing conclusions based on changes in one variable in a complex system. Some initiatives might make attribution somewhat easier to formulate than others, but there will often be some overlap, making it difficult to draw any conclusions.

As a hypothetical example, suppose that a specific type of equipment failure was recognized as a specific source of ignition. Presumably, we might be able to correlate an initiative targeted specifically at this ignition type with an observable reduction in the ignition risk of that type. Thus, if a concerted program to replace such equipment with a different equipment type preceded a notable reduction in specific ignition events, we might reasonably assume a causal nexus between the initiative and a reduction of ignition risk. Nonetheless, further investigation might support an argument that the change in equipment type did not have any beneficial impact, because the reduced number of equipment failures was actually attributable to an improved inspection method able to detect the potential for failure in that specific piece of equipment. As variables are added, any correlation becomes less conclusive.

These examples are not just hypothetical. If there are a reduced number of ignition and near misses (however it is ultimately defined) associated with vegetation contacts, might that be more properly associated with vegetation management efforts or improvements in protection devices? And if covered conductor is employed, are any reductions properly attributed to other mitigation strategies?

For all of these reasons, PacifiCorp uses multiple data sets and analytical approaches to estimate the reduction in ignition risk. Because of its larger data set, reference to outage history remains meaningful, in addition to known ignition events and near-misses. Moreover, some amount of reasoned engineering judgment is employed to estimate the proper association between a reduction in ignition risk and a particular initiative. Finally, PacifiCorp does not pretend to have the only answer. While there are different perspectives, especially realizing that there are different geographies at issue, reference to the larger data sets produced by utilities with larger California service territories is sensible. PacifiCorp remains willing to adjust and refine its calculations, especially as the WSD helps develop a knowledge base related to these issues.

In addition, because of these many challenges in assembling and processing real data, it is appropriate to rely heavily on risk reduction modeling and reasoned application of engineering knowledge about how electrical equipment functions.

Along these lines, PacifiCorp is developing more advanced modeling tools to assess ignition risk, including the effectiveness of particular technologies and processes to reduce ignition probabilities.

Likewise, any calculations of the consequences of a potential wildfire remains extremely challenging. An ignition in the same exact spot can have dramatically different consequences on one day as compared to the next. It is well understood that environmental conditions, specifically

wind conditions at the time of an ignition, can have a dramatic impact. This alone is very difficult to model. Again, complex systems are implicated. For example, whether the wind is blowing east or west can have just as dramatic an impact as whether the wind is blowing at all. Indeed, conditions prevailing 24 hours after ignition can dictate whether a wildfire was contained without great consequence versus erupting into a high magnitude event. As discussed in its earlier response to WSD-008 Guidance-3 in its Remedial Compliance Plan, PacifiCorp is engaging with leading fire scientists to have better models of fire behavior, together with more localized risk assessments tied to specific sections of utility infrastructure. As referenced in response to condition (ii) below, these ongoing efforts will have a dramatic impact on estimates of wildfire consequence.

Finally, even after modeling the potential perimeters of a wildfire, damage can be difficult to quantify. Impact is mostly assessed by factoring the number of acres which have a probability of being burned in an area and the population density of that area. Even assuming that fire spread models are accurate predictors of actual fire spread (which is a challenging science in and of itself), other factors beyond population density may not be captured in existing methodologies. In individual circumstances, areas with a similar propensity to burn and comparable population densities could actually result in very different damage scenarios. First, even assuming that loss of life and personal injury can be properly estimated using established actuarial tools, it is incredibly difficult to predict with a high degree of certainty, the confluence of events which lead to suboptimal response, such as an unsuccessful evacuation. Second, structures in some areas tend to be much larger and more expensive than in other areas. Third, defensible space efforts work. If a community has made a concerted effort to employ aggressive and meaningful defensive space strategies, the damage predictions should be substantially lower

as compared to a community that fails to engage in those types of efforts. PacifiCorp is supportive of developing more sophisticated models which consider these factors (and others), and the company's modeling efforts are progressing towards these goals.

In summary, PacifiCorp appreciates the WSD's strident efforts to push for objectivity in the risk spend efficiency analysis. To that end, PacifiCorp is developing more sophisticated models to better calculate reasonable estimations of ignition risk reduction and wildfire consequence avoidance.

Response to Conditions:

Condition (i): "calculated reduction in ignition risk for each initiative in its 2020 WMP"

Response: PacifiCorp is in the process of calculating an estimated reduction in ignition risk for each initiative. This calculation is highly inter-related with the work being done for the next generation wildfire risk assessment, which PacifiCorp plans to refine for integration into its 2021 WMP, as discussed in response to Guidance-03. (See PacifiCorp's 2020 Wildfire Mitigation Plan Remedial Compliance Plan, filed July 27, 2020.) In that filing, PacifiCorp outlined its plan to accomplish more localized and granular risk assessments by assigning a specific risk assessment score at the grid module level. (As explained in the response to Guidance-03, a module is a section of a circuit that can be isolated by a control operation, or more precisely, as outlined in PacifiCorp's WMP, a module is bounded by a sectionalizing or automated grid control device.)

To accomplish this task, PacifiCorp is developing six risk quantification layers. Three of these layers directly implicate ignition risk reduction, namely available arc energy and short circuit ignition likelihood, utility ignition fault risk, and utility fire and equipment. These layers influence the risk assessment score for a grid module by reflecting the ignition risk associated

with the character of the facilities themselves (versus the wildfire conditions in the environment immediately surrounding the grid module). Therefore, this layer will capture the risk reduction associated with any initiative performed on that grid module. In other words, estimating the ignition risk reduction associated with each initiative will be a central part of completing this risk assessment. The use of three layers reflects a methodology focused on three component parts: section fault likelihood, equipment failure likelihood and potential fault/arc energy release. Wildfire mitigation initiatives will impact those three components to varying degrees, and the conclusions reached to complete those adjustments will correlate with the calculated risk reduction for each initiative.

Condition (ii): "calculated reduction in wildfire consequence for each initiative in its 2020 WMP"

Response: Again, this calculation is highly inter-related to the work being performed for the localized risk assessment described in the Remedial Compliance Plan and in response to Guidance-03. PacifiCorp must, however, stress one clarification regarding how this particular condition is framed. A reduction in wildfire consequence can be correlated to an initiative only after also factoring for location. While PacifiCorp intends to calculate, at a program level, the effectiveness of an initiative in reducing ignition risk, a reduction in wildfire consequence is most directly related to the specific location of a potential ignition. In other words, the wildfire consequence is driven by location, not solely initiative, and a reduction of wildfire consequence at a particular location will hold constant, regardless of which initiative brought down the ignition probability.

Along these lines, the work being done on the localized risk assessment can also be purposed to estimate the wildfire consequence associated with an initiative at a program level.

From the start, each grid module is assessed with respect to a weighted average iUTI¹ score for the module, which itself is a model designed to reflect one estimation of potential wildfire consequence (based on fire weather history, terrain, assumed fuel moisture content and inventory of available fuels, without consideration for fire suppression efforts). The three remaining risk quantification layers being used to calculate risk assessment scores for individual grid modules, namely fire weather risk, fire weather fire spread risks and tree canopy coverage, capture concepts surrounding the potential spread of a wildfire as the result of an ignition at any particular location. This modeling, combined with the weighted average iUTI score, will more accurately predict relative wildfire consequence for a specific location.

Working from that starting point, then, a reduction in wildfire consequence can be correlated to a particular initiative, based on whether work is either completed or planned for a particular location. Significantly, the initiative's effectiveness in reducing the probability of ignition, as calculated in reference to condition (i) above, combined with the location of the initiative, will then drive how much the particular initiative reduces wildfire consequence.

Stated differently, an initiative which is very effective at reducing ignition probability will reduce wildfire consequence proportionate to that reduction (holding location constant). But, in a real world application, even a significantly effective initiative will reduce wildfire consequence very little when deployed in certain areas, such as over a fundamentally non-burnable surface, like a large asphalt parking lot. Factoring location of an initiative, combined with the potential wildfire consequence associated with that location, then allows a more accurate calculation of the reduction of wildfire consequence associated with a particular

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¹ iUTI (integrated utility threat index) is a concept that was developed during the CalFIRE-led statewide fire threat mapping initiative as outlined at https://www.cpuc.ca.gov/FireThreatMaps/. The company has adopted this concept as a foundation for ranking fire risk at a granular level.

initiative. PacifiCorp will estimate reduction in wildfire consequence attributable to an initiative by bringing together: (a) reduction in ignition probability; (b) the probability of destructive fire spread from a particular location; and (c) the actual or planned deployment of a particular initiative at a particular location.

Finally, PacifiCorp recognizes that there is another very significant variable: time of ignition. An ignition which occurs during elevated wildfire conditions has a remarkably different risk profile as compared to an ignition which occurs immediately after a rainstorm. Some ignition types, and related initiatives, can be correlated to heightened wildfire weather conditions. Above all, wind is a driving force behind wildfire spread. And certain types of faults (reflecting potential ignition events) are more likely to occur when there is wind, especially extreme wind. To adjust for this reality, PacifiCorp will use a multiplier to reflect the anticipated impact on wildfire consequence. Consequently, initiatives that reduce the probability of wind-related ignitions will show greater wildfire consequence reduction. As a result, hardening assets to be more resilient to wind events will be valued more highly.

Condition (iii): "the risk models used to calculate (i) and (ii) above"

Response: As explained more thoroughly above, the risk assessment models that will be used to calculate (i) and (ii) above are substantially the same models that are being used to complete a localized risk assessment and assignment of risk assessment scores at the grid module level (as described in the Remedial Compliance Plan in response to Guideance-03). When that work is complete, the cost of the initiative can then be factored to complete the risk spend efficiency analysis. (For spend amounts associated with a particular initiative, see below and the response to Guidance-05.)

Guidance-2, Lack of alternatives analysis for chosen initiatives

General Response to Deficiency: In responding the specific conditions below, PacifiCorp has systematically identified alternatives with respect to each grid hardening or vegetation management initiative. Before evaluating alternatives on individual initiatives, however, it is appropriate to consider "alternatives" at a more macro level.

First, regardless of specific design types of overhead construction, conversion to a multi-grounded system is a priority. The company intends, as it reconstructs its facilities, to construct them with multi-point grounding systems to ensure that the network is sufficiently sensitive to detecting and operating during fault conditions. Because the majority of PacifiCorp's facilities are governed by the National Electric Safety Code (NESC), which transitioned much of the underlying grounding practices in the late 1970s, the company has substantial familiarity, training and work processes with this approach. Thus, various mitigation measures must be viewed through that general lens. Additionally, the multi-grounding priority influences the logical deployment of re-conductoring activities.

Second, a preference for a general design type can have a dramatic impact on the evaluation of component parts. There are three primary design types to consider in relation to utility-related wildfire risk:

- (1) **Enhanced Traditional Design** Continue to use standard bare wire overhead design, but mitigate ignition risk by employing advanced protection schemes, excellent inspection programs, non-expulsion devices, aggressive vegetation management, asset replacement, and other initiatives designed to make standard design safer.
- (2) **Covered Conductor Design** Covered conductor has a significantly lower ignition risk, because wires are covered (but do not have shielding to properly be categorized as insulated) to prevent incidental arcing that can occur if contacted by a foreign object.
- (3) **Underground Design** Underground construction has very little associated ignition risk, because insulated wires are located below ground.

At a macro level, PacifiCorp's preferences amongst individual alternative initiatives must be taken in context with PacifiCorp's general conclusion that **covered conductor design** is the preferred general mitigation strategy in geographic areas of highest wildfire risk. Assessing alternatives at the micro, individual initiative level can be misleading without taking this macro level preference, and combined mitigation benefits, into account.

PacifiCorp endorses the fundamental proposition that traditional design can be a safe and efficient alternative. In particular, many of the individual initiatives described in PacifiCorp's WMP are specifically intended to reduce the ignition risk associated with standard bare overhead facilities. And PacifiCorp will continue to apply this general approach throughout much of its service territory. Even when facilities are properly installed and well-maintained, however, standard bare wire design will carry some degree of ignition risk. Even when operating exactly as designed – which is all that can be expected from an engineering perspective – energized wires exposed to the air have an arc-induced heat potential that could start a fire whenever there is contact with a foreign object. Covered conductor mostly eliminates this risk. Thus, covered conductor is highly preferred for wildfire risk mitigation in the highest risk area.

While the cost associated with covered conductor is significant, the avoided potential wildfire consequences warrant such an investment in the areas with the highest wildfire risk. Therefore, because of the well-known catastrophic consequences of large wildfires in northern California over the past several years, the investment in covered conductor is warranted in the designated Tier 3 areas in PacifiCorp's service territory. This has been the first WMP priority. As the work discussed above in response to Guidance-1 proceeds, PacifiCorp will continue to evaluate whether system hardening measures should be deployed in Tier 2 areas; this evaluation implicates a more difficult risk spend efficiency analysis. Moreover, this assessment is not static.

Especially as forward-looking climate change scenarios are factored into more granular risk modeling (see response to PC-1 below), the company is concerned that certain areas designated as Tier 2 may well emerge with localized risk assessment scores that warrant mitigation involving aggressive system hardening and covered conductor installations. If necessary, PacifiCorp will include these zones/modules in its hardening plans and update the WMP as appropriate.

PacifiCorp acknowledges and embraces the mitigation potential of underground design. PacifiCorp has concluded, however, consistent with other utilities, that the economic efficiency of covered conductor warrants its application over the underground design option. The ignition risk for covered conductor, deployed together with other mitigation initiatives, is comparable to the ignition risk for underground design. But the cost of underground construction is much greater than the cost of converting to covered conductor. Consequently, covered conductor is preferred as the least cost option for customers, while yielding similar mitigation benefits. Understandably, there is a separate aesthetic benefit associated with underground design. For the past several decades, many communities have decided, based on this benefit alone, to bear the additional cost of underground construction. To be clear, when there are projects involving conversion of existing facilities to covered conductor, PacifiCorp is ready and willing to convert to underground if the community is willing to bear the incremental cost. Indeed, during early conversations with community leaders about the company's mitigation plans, conversations regarding undergrounding as an option took place, and the company communicated its willingness to work with these communities to utilize Electric Tariff Rule 20 funds (as well as additional funds communities might contribute) to targeted viewscapes.

Finally, in reference to a general discussion of alternatives contemplated by Guidance-2, there is one general alternative approach that ought to be acknowledged, even though it plays a small role in most plans. Throughout these proceedings, little attention, by any party, has been given to the potential of radical right-of-way management. Regardless of how well electric infrastructure is designed or maintained, it has minimal ignition risk when located over nonburnable surfaces. Vegetation management is a topic receiving considerable attention, but its focus is on preventing vegetation contact with power lines, not generally on managing the surface of the land below the lines. Pole-clearing requirements around equipment poles is a notable exception, indicative of a wholly different strategy: removal of the fuel at the point of potential ignition. A similar strategy on a much grander scale is possible. While technically feasible, there can be, however, a significant social cost in changing the landscape. That cost appears to make such alternatives highly disfavored in most circumstances. For example, even if it were economically feasible to lay asphalt under a line, the majority of people in the community are generally opposed to such dramatic alterations to the wildland environment. Thus, alternatives such as this typically do not show as "alternatives considered" in response to condition (i) below.

Nonetheless, certain applications related to this general approach are either implemented or under consideration. First, the easier application is at the design stage of new facilities. If there are alternatives between routing new facilities over wildland vegetation versus over impervious surfaces or well-irrigated lands, designers are instructed to factor associated wildfire risk. This does not mean that no new facilities will be built in wildland areas, but, moving forward, there will be a conscious effort to avoid building new facilities in difficult to access, high-fuel areas.

Second, PacifiCorp is exploring the potential of voluntary programs to reduce risk on the

distribution system. In conjunction with efforts to promote defensible space (which can greatly mitigate potential damages), landowners are encouraged to keep areas under lines green and free of fuel build up. Taken individually, such decisions have minimal impact, but in the aggregate, they can be an important tool to reduce risk. Third, PacifiCorp is exploring more encompassing options in relation to certain transmission corridors. Coordination with public land managers may prove critical in these efforts.

Response to Conditions:

Condition (i): "all alternatives considered for each grid hardening or vegetation management initiative in its 2020 WMP"

Response: for each initiative in the 2020 WMP, PacifiCorp has identified specific alternatives to that initiative, listed in column E of <u>Attachment A</u>: Alternatives to Initiatives, (Guidance-2 Worksheet).

Condition (ii): "all tools, models, and other resources used to compare alternative initiatives"

Response: PacifiCorp recognizes the importance of considering alternative initiatives to ensure optimal delivery of the right mix of mitigation measures. To provide a general understanding of the alternatives that the company would normally consider, it has outlined program alternatives for specific initiatives. As part of this analysis, however, any particular alternative needs to be considered, more often than not, in conjunction with other variables at issue in deployment at any particular location. Along these lines, it may not make sense to assume that one initiative can be compared to another initiative on a wholesale basis, without factoring those many other variables. Consequently, the company incorporates a qualitative analysis to identify, at a program level, the general alternatives and criteria that might elevate an alternative in certain circumstances.

Condition (iii): "how it quantified and determined the risk reduction benefits of each initiative"

Response: Many "alternatives" are themselves factored as an initiative or a portion of an initiative, and so the risk spend efficiency discussion in the response to Condition (i) of Guidance-1 is incorporated here. In addition, any independent alternatives will be assessed with the same methodology described in the response to Condition (i) of Guidance-1.

Condition (iv): "why it chose to implement each initiative over alternative options"

Response: PacifiCorp chose to implement one alternative over another because the chosen alternative should more efficiently reduce wildfire risk. With respect to each particular initiative, the company's qualitative rationale for selecting the preferred alternative is expressed in column G of Attachment A. As the risk spend efficiency analysis matures, in conjunction with more granular and localized risk assessments, PacifiCorp will continue to closely re-evaluate alternatives and challenge prior conclusions. Because of the many variables factored into the analysis, as discussed above, the company does not anticipate that the qualitative assessments will be replaced. Instead, the risk spend efficiency analysis contemplated in response to Guidance-1 will add a layer of sophistication to the evaluation of alternatives at a particular location.

Guidance-4, Lack of discussion on PSPS impacts

General Response to Deficiency: PacifiCorp welcomes the opportunity to discuss its efforts to reduce PSPS impacts. First, to date, there have fortunately been very little impacts associated with PSPS to the communities in PacifiCorp's service territory. Because PacifiCorp has not had to implement a PSPS event, the only impacts to date center on the planning activities

around PacifiCorp's PSPS program.² Second, PacifiCorp remains committed to implement a PSPS only if the benefits of risk reduction outweigh the harms, including the harms to the community at large. Third, by executing the initiatives described in its 2020 WMP (and barring significant changes in future risk assessments), PacifiCorp plans to greatly reduce the potential need to implement PSPS, as currently envisioned, in its California service territory.

After the planned covered conductor installation are complete, it is extremely unlikely that a PSPS would be warranted (especially on any kind of wide-scale scope or duration). PacifiCorp cannot, of course, control fire weather conditions, so the emergence of even more extreme wildfire conditions could frustrate this goal. Nonetheless, PacifiCorp is optimistic that any need for PSPS will be drastically minimized, if not eliminated entirely by the aggressive system hardening efforts outlined in the WMP and the company's vision for wildfire mitigation.

Moreover, PacifiCorp plans to stage work between now and 2023 to reduce, as much as possible, any potential impacts due to PSPS. These efforts largely track PacifiCorp's plan for installation of covered conductor.³ High winds are the driving force behind a PSPS event, leading to uncontrollable fire spread and potentially causing utility-related ignitions. The best mitigation strategy against the risks associated with high winds is covered conductor. As discussed previously, no matter how well-designed or maintained, bare energized wires can result in ignition if foreign objects blow into the lines. Good vegetation management can reduce

² Considering the inherent potential for loss of power (i.e. due to storms, etc.), these planning activities have been good in many respects for both the company and customers. Regardless of whether an outage is a proactive PSPS event or the result of some uncontrollable weather event, the community needs to be prepared to respond to an emergency, even when the power is down. Thus, these impacts can be viewed as mostly positive, even if they divert some planning time and resources.

³ As outlined in PacifiCorp's WMP, covered conductor is not installed in complete isolation; such installation integrates other initiatives, including multi-grounding, with such work done most efficiently at the time of covered conductor installation. In other words, the installation of covered conductor reflects implementation a suite of initiatives, with the covered conductor itself at the center of that effort.

the risk of blow-in, either by high risk trees or broken limbs. But even the best vegetation management cannot prevent all vegetation contact. Covered conductor, on the other hand, virtually eliminates the risk of blown-in foreign object contact, whether it be tree branches, mylar balloons, or plastic swimming pools. Stated succinctly, it is extremely unlikely that PacifiCorp would determine that it was necessary to implement a PSPS on a zone of protection where covered conductor installation is complete.

A concrete example best illustrates the approach PacifiCorp is taking to reduce the impact of PSPS. PacifiCorp has identified the Weed - Mt. Shasta - Dunsmuir corridor for potential implementation of PSPS. The most important hospital in the area is located in Mt. Shasta. In its covered conductor program, PacifiCorp's first priority is the segment of line from the substation to the hospital. As part of this project, covered conductor installation will be completed to the existing line-recloser, located slightly downstream from the hospital. With that project completed, PacifiCorp will be able to definitively commit that the hospital will not be taken out of service during a PSPS in the area. This same project will keep gas stations near the I-5 corridor powered during a potential PSPS event. Subsequent projects have similar objectives, prioritizing the most critical facilities and the highest number of customers impacted within the umbrella of protected space afforded by the covered conductor installations.

Reducing the impacts and minimizing the effects on the communities of a potential PSPS has been a central, if not the most central, factor in prioritizing the work schedule for PacifiCorp's wildfire mitigation initiatives.

Response to Conditions:

General Response: PacifiCorp respectfully submits that a reference to each individual initiative is problematic to associate with the impact on PSPS. There are over eighty potential

initiatives identified in the WMP master template, but the effect on PSPS is most material when multiple initiatives are working in conjunction with each other. The potential for PSPS is reduced when there is a composite reduction in risk across the entire spectrum of ignition potentials. Thus, the risk reduction properties of individual initiatives are the best marker of that individual initiative's impact on PSPS. Again, however, the centrality of covered conductor in PacifiCorp's wildfire mitigation program should be stressed in relation to reducing the potential of PSPS.

Condition (i): "affects its threshold values for initiating PSPS events"

Response: The word "initiate" implicates two distinct concepts. In PacifiCorp's PSPS program, certain weather measurements act as threshold values which trigger the activation of PacifiCorp's emergency operations center (EOC) and its evaluation of a potential PSPS event. In other words, hitting the thresholds "initiate" the PSPS process. Completion of mitigation work outlined in the WMP does not impact these threshold values, at least in this function. If weather conditions warrant, PacifiCorp will activate its EOC to evaluate current circumstances and determine whether moving forward in the PSPS process is warranted, including by communicating a notice externally and ultimately by de-energizing. In evaluating the circumstances, the EOC will continue to pay particular attention to the same weather measurements and those "threshold values" used to activate the EOC. If conditions warrant, PacifiCorp may "initiate" an actual PSPS event by proactively de-energizing a circuit or a section of a circuit. But the decision to de-energize is not controlled solely by the weather measurements. Real-time feedback from the field and public safety partners is considered, as well as the condition of the facilities potentially subject to a PSPS. Completion of mitigation work outlined in the WMP can impact the decision of whether to initiate an actual PSPS event. If a mitigation measure has been completed on a section of system which reduces its risk, the emergency operations center may explore options to allow it to remain energized during periods of more severe fire weather conditions.

Condition (ii): "is expected to reduce the frequency (i.e. number of events) of PSPS events"

Response: As discussed above, each mitigation activity is expected to have an incremental impact in reducing the frequency of PSPS events. Where installation of covered conductor is complete, implementation of a PSPS event, as currently envisioned, is highly unlikely.

Condition (iii): "is expected to reduce the scope (i.e. number of customers impacted) of PSPS events"

Response: As discussed above, with reference to the first project and the Mt. Shasta hospital, PacifiCorp's work schedule is specifically prioritized to reduce the scope of PSPS events. As projects are completed, line segments will be taken out of scope, meaning that customers served from those lines will remain in power during a potential PSPS event in the area.

Condition (iv): "is expected to reduce the duration of PSPS events"

Response: For the same reasons that mitigation helps reduce the potential for triggering a PSPS event to begin with, mitigation should reduce the duration of PSPS events.

Condition (v): "supports its directional vision for necessity of PSPS, as outlined in Section 4.4 of its WMP"

Response: This approach directly supports PacifiCorp's directional vision related to the necessity of PSPS. In Section 4.4 of the WMP, PacifiCorp identified five discrete PSPS zones, all in Tier 3 or electrically connected to Tier 3 fire threat areas. By completing mitigation work, the company will be able to effectively remove line segments from the PSPS zone. As more and

more line segments are removed from scope, entire PSPS zones may be removed from PSPS consideration.

Guidance-5, Aggregation of initiatives into programs

General Response to Deficiency: As noted below, PacifiCorp is complying with Guidance-5 condition by fully disaggregating each initiative. PacifiCorp understands the WSD's desire for uniformity, so that "apples-to-apples" comparisons can be made with respect to individual initiatives. We will merely note, as also implicated in the more expansive discussion in response to Guidance-1 above, that certain initiatives are more effective at mitigating wildfire risk when combined rather than when considered individually. Consequently, there may be circumstances where the functionality of a combination of initiatives needs to be taken into consideration, and PacifiCorp will attempt to distinguish that issue when appropriate.

Response to Conditions:

Condition (i): "break out its programs outlined in section 5.3 into individual initiatives" Response: PacifiCorp has disaggregated all programs into individual initiatives, which each are listed by separate line item in Attachment B: Initiative Level Detail (Guidance 5 and 6 Worksheet).

Condition (ii): "report its spend on each individual initiative"

Response: The dollar spend on each initiative in the 2020 WMP is listed in column M of Attachment B. Due to long-standing accounting practices which precede the WMP, the spend listed on certain initiatives required some degree of approximation based on a percentage of a larger accounting designation.

Condition (iii): "describe the effectiveness of each initiative at reducing ignition probability or wildfire consequence"

Response: See response to Conditions (i) and (ii) of Guidance-1 and PacifiCorp's Remedial Compliance Plan addressing Guidance-03. When that work is complete, the dollar amount of an initiative expenditure can then be factored into the equation, to complete the risk spend efficiency analysis.

Condition (iv): "list all data and metrics used to evaluate effectiveness described in (iii), including the threshold values used to differentiate between effective and ineffective initiatives"

Response: See response to Conditions (i) and (ii) of Guidance and PacifiCorp's Remedial Compliance Plan addressing Guidance-03. When that work is complete, the dollar amount of an initiative expenditure can then be factored into the equation, to complete the risk spend efficiency analysis.

Condition (v): "provide the information required for each initiative in section 5.3 of the Guidelines"

Response: PacifiCorp's 2020 WMP did provide such information, except as is required to complete the risk spend efficiency analysis. Upon completion of the work described in response to Guidance-1, PacifiCorp will provide the information required for each initiative in section 5.3 of the Guidelines.

Guidance-6, Failure to disaggregate WMP initiatives from standard operations

General Response to Deficiency: To help frame this response, some historical context is useful. Over the past decade or so, there have been a number of reforms or initiatives that have integrated a number of wildfire mitigation concepts and transformed "standard" utility practice. Largely as a result of the state-wide mapping project, there are also distinctly different meanings for standard operations, including construction, inspection and maintenance, dependent on the geographic location of a facility. Consequently, it is difficult to precisely define standard practice without also making some reference to time and place. In particular, there were some substantial

amendments to the General Order regulations made and/or implemented during drafting stages of the original 2019 wildfire mitigation. At the time that those amendments became effective, they were perceived as "new" programs which augmented existing, standard programs. Even a short time later, there is an appreciation that the amendments are part of the "standard" program. Likewise, place is important. From the perspective of wildfire mitigation, what is "standard" in downtown Crescent City is no longer standard in the high fire threat districts (HFTD). Principles of regulatory cost recovery also come into play, such that initiatives, no matter how effective or innovative, can be construed as "standard" if there is an existing cost recovery mechanism in place (i.e. covered in base rates).

In responding to the conditions below, PacifiCorp is applying a broad definition of standard, meant to encompass the reality that many existing mitigation efforts are part of existing, standard operations. Specifically, any actions which are required by regulation are treated as "standard" (including requirements applicable to the HFTD only). In addition, any program that has its costs already included in the prior general rate case is treated as "standard."

In making such distinctions, however, PacifiCorp encourages all parties to remember that this distinction is most relevant from a cost recovery perspective. In particular, "standard" does not necessarily equate to either better, or worse, wildfire mitigation.

First, if certain effective practices became part of a company's standard operations earlier in time, this does not make them any less effective, even if they are now "standard." PacifiCorp has had a very low rate of reportable ignitions over the past five years. Very low ignition numbers for the past several years are the result of many years of efforts (beginning in the early 2000s through the Governor's Declared Drought Emergency and beyond) to mitigate against wildfire risk, while still holding down costs for customers.

Second, new "standard" practices reflect many thoughtful improvements of regulatory requirements which result in mandating a certain type and level of wildfire mitigation. In many circumstances, the regulatory process had to balance risk reduction efforts against the impact on customer rates. PacifiCorp believes that the Commission has made a good faith effort and been successful at balancing those interests. As we collectively gain more insight, experience and information, the Commission, and stakeholders, may come to a different determination. And, additional measures may be warranted in the future. In the meantime, however, the "standard" established by current regulatory requirements is an important reference point, reflecting a reasoned outcome in a deliberative process.

PacifiCorp stresses this distinction because the company's "standard operations" include critical wildfire mitigation efforts. Standard-done-well is the first line of defense against the wildfire risk. The company is optimistic about the potential of new programs to augment what has been done in the past. In embracing that optimism, however, PacifiCorp will also remain committed to trying to improve on what has worked well in the past.

Response to Conditions:

Condition (i): "clearly identify each initiative in Section 5.3 of its WMP as 'Standard Operations' or 'Augmented Wildfire Operations'"

Response: For each initiative in Section 5.3 of PacifiCorp's 2020 WMP, the company has designated the initiative as "Standard Operations" or "Augmented Wildfire Operations," as shown in column E of <u>Attachment B</u>.

Condition (ii): "report WMP required data for all Standard Operations and Augmented Wildfire Operations"

Response: PacifiCorp understands it did provide such data, except as is required to complete the risk spend efficiency analysis. Upon completion of the work described in response to Guidance-1, PacifiCorp will report additional WMP required data.

Condition (iii): "confirm that it is budgeting and accounting for WMP activity of each initiative"

Response: Budgeting and accounting information for each 2020 WMP initiative, where available, is included in Attachment B.

Condition (iv): "include a 'ledger' of all subaccounts that show a breakdown by initiative"

Response: For each WMP initiative, accounting information in Attachment B is reflective of either the subaccount for that specific initiative or of a reasonable estimate of the initiative-related amounts in the most detailed subaccount relative to that initiative.

Guidance-7, Lack of detail on effectiveness of "enhanced" inspection programs

General Response to Deficiency: PacifiCorp agrees with the WSD's determination that there has been some confusion regarding the meaning of 'enhanced' inspection programs, because this term has been used by different parties in different ways throughout these proceedings. There is a linguistic and conceptual issue which the Guidance-7 discussion helps to clarify. In its description of the deficiency, the WSD questions whether "numerous 'enhanced' programs are incrementally effective over routine patrol and detailed inspections." Such language is strongly suggestive that an "enhanced inspection" should be distinctly separate from the "routine inspections" performed consistent with GO 95/165. In one sense, this seems obvious. On the other hand, it is understandable that there has been some confusion. If one does something to improve the efficacy of a "routine inspection," it would be reasonable to call an improvement an "enhancement" of the existing inspection process. For example, if inspectors

use an electronic tablet to enter condition data onsite, this is typically viewed as an "enhancement." But we would not typically track the use of the tablet as a separate "program" or "initiative."

The use of the word "patrol" is also a little nuanced, especially used in conjunction with "inspection." Patrol has a relatively technical meaning in reference to the systematic visual inspections performed as part of a formal inspection program under GO 165. The word "patrol" is, however, frequently used in other contexts. For example, after an outage has been remedied, operations personnel may patrol a line before re-energizing the line to confirm that no other section of the line was damaged. Such a "patrol" is also an "inspection" – whenever operations personnel visually inspect the facilities, they are assessing the line to confirm it is working satisfactorily and looking for any observable conditions which would disrupt the normal operation of the lines. Likewise, even the term "visual inspection" can often be used to reference a patrol done outside of the formal GO 165 program.

Finally, scheduling efficiencies could justify "mixing" two otherwise severable activities. It would be very common, for example, for any enhanced inspection of a line to also entail a visual inspection of the same line. Visual inspections are, after all, relatively low tech, relying on experienced line workers, not on equipment. When personnel walk, drive, or fly a line – while looking at the facilities – they are performing a "visual inspection" (remembering, however, that someone trained to spot conditions will likely spot more conditions). Moreover, travel time is a key consideration in PacifiCorp's large geographic service territory. It can often be efficient to perform two (or more) tasks on one trip. For these reasons, it is understandable why two activities can sometimes be described as if they were part of a single program.

Thus, a few points of clarification are in order because of overlap between these terms.

First, because vegetation inspections have a distinct initiative category in the WMP template, and "enhanced" vegetation inspection activity is not being addressed in this response to Guidance-9, which PacifiCorp understands is centered on the asset management and inspections program category. Second, PacifiCorp is not including the special patrol inspections performed by operations personnel during elevated risk periods, such as PSPS watch and restoration activities. Although such patrols can spot conditions (and arguably, then, a type of enhanced inspection), those activities are best addressed through the more specific PSPS discussion. Third, other patrol activities performed by line crews working in coordination with system operations are not included in this response to Guidance-9. Those activities remain best categorized in the grid operations and protocols program category.

All of this being said, for the purpose of clarifying what PacifiCorp is <u>not</u> including in this response, PacifiCorp appreciates the WSD's rationale in drawing a distinct line between "routine" inspections and "enhanced" inspections. In sum, it is useful to make a clear separation as we seek to determine whether a new inspection initiative is cost justified. For clarity, PacifiCorp will not use the term "enhanced" in reference to any activity undertaken as part of the formal inspection program administered under GO 165. Instead, PacifiCorp will use the term "enhanced inspection program" only for an initiative that is distinct and separate from the program as specified in GO 165. Along these lines, PacifiCorp will also categorically place any "enhancement" of the GO 165 program in the specific initiative category for "improvement of inspections."

In hindsight, use of the term "enhanced" at all has perhaps become more problematic than helpful. Perhaps the differentiation between standard and augmented, as required under Guidance-6, would be sufficient to distinguish various inspection initiatives.

The distinction, however, should not rob whatsoever emphasis from the importance of "routine" inspections. The GO 165 inspection program is a core, bedrock tool for identifying issues with equipment that could lead to safety consequences or impact reliability. Routine inspections work. They identify conditions, which then results in corrective work. Routine inspections keep equipment in good working order; they save lives; and they mitigate against the risk of utility-initiated fires.

With this understanding of "enhanced inspection program," PacifiCorp clarifies that the sole "enhanced inspection program" currently actively employed by PacifiCorp is the Infrared (IR) inspections of transmission electric lines and equipment initiative described in Section 5.3.4.5 of PacifiCorp's 2020 WMP. PacifiCorp's evaluation of the incremental effectiveness of that program is addressed in the response to the conditions below. Other initiatives potentially implicating enhanced inspection programs (i.e. using LiDAR, infrared or radio frequency technology) are best categorized as pilots, and are discussed in response to Guidance-9.

As a point of clarification, scheduling of patrol and detail inspections should have any bearing on the whether the IR initiative is incrementally effective. The IR initiative has proven effective, regardless of the frequency of routine inspections. Above all, the IR initiative is geared to identifying conditions which are not (and typically cannot be) identified through routine inspections.

Response to Conditions:

Condition (i): "the incremental quantifiable risk identified by such 'enhanced' inspection programs"

Response: Infrared technology is being used in an attempt to identify certain "hot spots" indicative of a condition. The infrared sensor identifies an unusual release of heat energy, which can be indicative of a problem with equipment; to be clear, however, heating can also be indicative or loading conditions, and thus too much attention to this parameter would yield an unacceptable number of false positives. This technology's application is a distinct initiative from normal patrols, because this approach attempts to identify conditions which would not normally be observable by the human eye. In addition, because these inspections are being conducted from the air, they provide a different angle of observation, as compared to a ground-based observation (and are different in other ways from the air-based patrols from helicopter which sometimes are used to complete regular patrol inspections). At a basic level, PacifiCorp is tracking the number of conditions that are identified through this process, as well as the costs incurred through the initiative. In addition, PacifiCorp is evaluating the significance of the conditions which may be spotted through this process and whether they reflect a greater incremental risk compared to other conditions. PacifiCorp is evaluating what impact the timing of the inspection has on its effectiveness in identifying conditions of this character.

Condition (ii): "whether it addresses the findings uncovered by 'enhanced' programs differently than findings discovered through existing inspections"

Response: On one level, PacifiCorp treats the identification of a condition similarly, regardless of what type of inspection was used to identify the condition. The condition is recorded in PacifiCorp's facility point inspection (FPI) system, and corrective work is scheduled. On a more nuanced level, however, PacifiCorp is evaluating the infrared inspection findings differently. These inspections reflect a different condition type (namely, a condition resulting in a release of heat energy), so PacifiCorp is evaluating what information or conclusions can be

drawn from identifying such a condition. For example, should they be treated with higher priority? Do they correlate with specific environmental factors or weather events?

Condition (iii): "a detailed cost-benefit analysis of combining elements of such 'enhanced' inspections into existing inspection programs"

Response: By clearly delineating between PacifiCorp's single enhanced inspection initiative and PacifiCorp's existing inspection programs, this condition does not apply.

Guidance-9, Insufficient discussion of pilot programs

General Response to Deficiency: PacifiCorp appreciates the opportunity to provide additional detail regarding its pilots programs and clarify issues unaddressed in the 2020 WMP.

Response to Conditions:

Condition (i): "all pilot programs or demonstrations identified in its WMP"

Response: There are 13 individual pilot programs discussed below. Considering the unique nature of a pilot program, each condition associated with Guidance-9 is answered in separate parts, organized around each individual pilot program.

Pilot Program No. 1

Name of Pilot Program: LiDAR Pole Loading Assessment Pilot Program

2020 WMP Section Reference: 5.3.3.13

Brief Description: Pole loading to accommodate safety factors and necessary specifications are included in PacifiCorp's engineering and construction standards. LiDAR data collection allows for highly accurate 3-Dimensional (3D) depictions of pole assets. These results can be used to identify potential pole loading concerns. Upon validation in the field, corrective work can be scheduled.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: At this time, PacifiCorp has piloted the use of LiDAR to create structural models to calculate pole loading capacity. The pilot loading project was completed, and PacifiCorp observed positive results through improved identification of poles with pole loading concerns. The company is currently evaluating wider application of the technology and considering how to integrate this technology into other asset strategies (i.e. asset health index development).

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: The LiDAR Pole Loading Assessment Pilot produced usable and reliable structural information. While PacifiCorp has historically not experienced pole failures in its California service territory, resilient poles are an important element of a resilient electric system and reduce future ignition probability due to pole failure.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: Results from the pilot were incorporated into the company's pole replacement initiative.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: PacifiCorp is evaluating use of LiDAR pole strength modeling in compiling an asset health index.

Pilot Program No. 2

Name of Pilot Program: LiDAR Vegetation Inspection Pilot Program

2020 WMP Reference: 5.3.4.7

Brief Description: LiDAR data collection allows for highly accurate 3D modeling of vegetation in close proximity to utility assets. The modeled presentation of such data can be used to identify potential compromised clearances and evaluate vegetation threats. The identification of these hazards can help prevent fault scenarios and reduce ignition risk. However, full deployment and application remains unclear. Therefore, PacifiCorp developed and implemented a pilot project to scan and model a select subset of assets using LiDAR technology.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: At this time, using LiDAR for vegetation inspection has not yet proved to be a viable mitigation initiative. PacifiCorp is currently doing additional pilot activities, particularly leveraging legacy LiDAR data to potentially improve functional application.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: PacifiCorp observed a high degree of false positives when field verified. It is unclear whether such results were due to data processing, flight specifics or other input details that can be adjusted. When data from different vendors regarding similar locations was compared, there were substantially different results; these variances undermined faith in the results.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: Elimination of tree intrusion and removal of high risk trees reduces the potential of vegetation contact faults (and, to some degree, potential fuel sources).

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: At the current time, PacifiCorp expects that the first application of this technology in its vegetation management program will be the validation of proper clearances. The next use case will likely be identification of deciduous versus coniferous trees. From a long-term perspective, the company hopes that the technology can be applied to organize and inform queuing up of cycles for "just in time" vegetation management work.

Pilot Program No. 3

Name of Pilot Program: Vegetation Management Data Analytics

2020 WMP Reference: 5.3.4.7

Brief Description: This pilot looks to use publicly available information to create a foundational, coarse 'inventory' of vegetation in proximity to equipment. The purpose of this pilot is to determine whether or not locations with higher risk of vegetation contact and/or increased need for vegetation maintenance can be identified via analysis of low-cost data layers.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: The pilot is in early stages. PacifiCorp has loaded the first version of data analytics, which are now available and operational within company software tools. This first version is for exploring the potential analysis of public vegetation data sets for all of PacifiCorp's territory. A secondary analysis using higher resolution data for a small region west of Yreka is scheduled to begin in September 2020. In addition, the company plans to explore the potential application to identify certain trees as fast growing candidates for chemical maintenance.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: Feasibility will be assessed by checking correlations between vegetation data characteristics for particular circuits or sub-circuit modules to historic vegetation maintenance and faults.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: The pilot is anticipated to inform long-term risk, rather than highlighting immediate concerns. Refining the analysis and incorporating results into operational practices is expected to be an iterative process performed in consultation with vegetation management.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: If the initial work is successful, the approach could be expanded by incorporating higher resolution and more frequently updated vegetation models.

Pilot Program No. 4

Name of Pilot Program: Vegetation Management Database Pilot Program

2020 WMP Reference: 5.3.5.6

Brief Description: PacifiCorp is planning to pilot the use of the utility's existing electronic database programs to identify, plan, track, and record completion of vegetation management activities. Foresters will begin working with the GIS department to secure digital maps consistent with the company's master version and use electronic forms and records to capture activities. This will facilitate additional granularity in reporting, additional record retention, and enhanced analytics.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: The program (MapIt Fast) is currently in use in PacifiCorp's California service territory. Assuming the pilot proves beneficial, the program will continue to be implemented, with full adoption in 2021.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: The program allows for tracking of data, including the location and number of prunes, removals, herbicide use, pole clearing activities, exceptions, outage investigations, and property owner refusals. Tracking such data facilitates audits and management of crew deployment.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: The program is used to track work flow, including post inspection findings and exceptions. In some cases, exceptions may pose an ignition risk. Exceptions are identified in the program and are immediately available to the tree contractor to review, correct the exception, and track to completion.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: PacifiCorp will continue to refine the program through implementation and use.

Pilot Program No. 5

Name of Pilot Program: Radio Frequency (RF) / Infra-red (IR) for Line Patrolman

2020 WMP Reference: 5.3.3.10 (also noted in 5.0.E)

Brief Description: This pilot involves the use of new tools (IR and RF sensors) to supplement traditional visual inspections and incorporate the capture and use of empirical data

and measurements into condition identification. Traditionally, a human inspector has assessed assets visually. These tools will give the inspector additional "eyes" with the expectation to better identify a wider range of conditions.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: The pilot is in the early stages of implementation. PacifiCorp has obtained the equipment which will be used by line patrolmen and has completed the data collection forms for mobile application. The company conducted the first training sessions virtually on August 25, 2020. Line patrolmen will engage the new RF and IR tools on targeted local transmission lines over the next couple of months. After the first trials and as employees gain experience, the company will likely make modifications to sensitivity levels, equipment usage, data collection and analysis methods.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: Similar pilots for airborne applications have yielded results in detecting leakage current for pole fire mitigation. PacifiCorp expects that this pilot will yield results over the next quarter.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: Early detection of latent conditions will result in avoided fault operations that have a direct impact on ignition probability.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: If successful, the company intends to outfit all line patrol personnel with detection equipment. Depending on the pilot's results, PacifiCorp may engage in further studies regarding applications on the distribution network.

Pilot Program No. 6

Name of Pilot Program: Sophisticated Protection Control Settings

2020 WMP Reference: 5.3.3.9

Brief Description: This pilot evaluates the optimal approaches in using sensitive and sophisticated device settings to reduce wildfire risk (and improve reliability). Devices, including relays, reclosers and fuses, all have methods by which they are programmed to operate in response to a fault condition. If there is limited coordination between devices, it can increase the probability of equipment damage, which reflects an ignition risk.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: PacifiCorp developed advanced distribution line settings that were piloted in several areas the company serves (including Weed, CA and Lincoln City, OR). After experimenting and making some minor modifications, the company has adopted those settings as the company's standard. The settings profiles include normal (fast trip followed by reclosing attempts), elevated risk (fast trip followed by single reclose attempt after sufficient time to limit persistence of heat), extreme risk (no reclose attempt), and safety hold (for line worker usage during line operations where no reclosing occurs). Furthermore, the company is piloting the use of mirrored-bits (or radio communications) between substation relays and first zone line reclosers. This pilot is aimed to reduce device to device coordination time, which reduces arc energy. Initial results indicate this approach is highly valuable in locations where coordination delays are needed for proper device coordination. The goal is to maintain a high level of

reliability while still reducing potential arc ignition time or magnitude. The company has also piloted high impedance fault detection, which is currently configured to alarm upon detection.

As the company gains more experience with alarming versus device operation, settings will be modified.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: PacifiCorp has used the alternate settings developed through this pilot in recent elevated risk events. While no line operations occurred during that time, the settings were available to perform protective function. A handful of high impedance faults have been recorded (not in the high fire threat area) resulting in tuning of the algorithm.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: Analysis of protective device settings is part of PacifiCorp's standard operating practices. Either field engineers, relay support personnel or protection and control team members evaluate the operations to ensure that protective devices function as expected. Those reviews determine whether there should be any subsequent changes to the network, which could include targeted inspections, device settings changes, training or further engineering analysis.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: PacifiCorp plans to expand its use of advanced settings in Tier 2 areas, depending on the results of localized risk assessment scores (as discussed in response to Guidance-3 and PacifiCorp's Remedial Compliance Plan). As equipment is replaced for any reason, PacifiCorp plans to further incorporate the advanced settings protocols.

Pilot Program No. 7

Name of Pilot Program: Fault Detection/Line Monitoring

2020 WMP Reference: 5.3.3.9

Brief Description: This pilot explores the use of continuous monitoring sensors, including both line sensors and station relays, for fault identification and detection.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: The company has completed approximately 1/3 of transmission relays with fault detecting relays (and has outlined plans for the remainder to be completed); line sensor piloting (LineScope) has been completed and been found to be valuable in minimizing risk while maximizing reliability results; further installations are scheduled for Q3 & Q4, in addition to lower priority locations being completed during 2021. Single ended traveling wave is being piloted in four locations on three local transmission lines; the first installation's design was completed in late August and is to be constructed during Q3 2020.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: Substantial benefits have been experienced with the fault detection devices that have been placed, however no widespread metrics have yet been created due to the recent nature of the installations.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: As addressed in Sophisticated Protection Control Settings, the device's event data is analyzed to guide response and correction actions.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: The company will continue to advance its multiyear installation plan. Further, the company will expand its use of fault detection equipment in areas where elevated risk scores are identified as it completes its element (zone of protection/module) analysis. As equipment is replaced due to its asset health indexing processes or when reactive reliability improvements are needed it will further incorporate viable fault detection equipment.

Pilot Program No. 8

Name of Pilot Program: Distribution Fault Anticipation (DFA) and Wave Form

Analysis

2020 WMP Section Reference: 5.3.2.2

Brief Description: PacifiCorp is pursuing the use of distribution fault anticipation (DFA) technology through piloting with Texas A&M. In addition, the company is investigating application of waveform analytics with Oakridge National Lab (ORNL) through the Department of Energy's Grid Modernization Lab Consortium partnership. While PacifiCorp did not identify continuous monitoring sensors as an initiative in its WMP, both of these technologies can be considered "continuous monitoring sensors."

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: PacifiCorp has contracted with Texas A&M to facilitate the DFA pilot, and the first installation at Weed substation (on two circuits) is in design. PacifiCorp plans to issue a construction bid package in mid-September 2020, with construction planned for Q4 2020. The collaboration with ORNL regarding wave form analytics is in early scoping stages.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: No results have yet been produced. The first results are expected at Weed substation no sooner than second quarter 2021.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: If DFA delivers the expected early detection of wave form deviations, PacifiCorp anticipates this technology to be highly effective at reducing fault operations, which consequentially reduces ignition probability.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: If successful, PacifiCorp will install DFA when replacing substation/circuit relays where communication networks exist. Depending on the result of the pilot, PacifiCorp may consider near-time replacements. For those portions of the network with limited communications options, alternative communications strategies will be considered.

Pilot Program No. 9

Name of Pilot Program: Arc Energy Fault Modeling

2020 WMP Reference: 5.1.2

Brief Description: The pilot uses time current characteristic modeling capability, within a load modeling tool and under a variety of fault conditions, to evaluate protective devices and their settings that result in fault current (amps) for a period of time (seconds) for a length of conductor (feet). Such results create a range of arc energy risks that can then be minimized by re-coordinating the protection control systems for the given circuit.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: PacifiCorp completed the pilot in PSPS areas described in the WMP. Based on a review of the pilot results and system records, certain equipment has been updated. PacifiCorp

expanded the pilot to other HFTD during 2020, with long term adoption intended over the next five years.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: The results of the pilot were used to identify locations where the fault potential (based on the similarity to modeled configurations) reflected a higher risk of damaged equipment or ignition.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: PacifiCorp used the modeling results to identify locations where there was a higher risk of a fault. Use of this information allows for system network changes to preempt such a risk condition.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: PacifiCorp plans to focus pilot expansion on elevated risk areas. As the company develops risk assessment scores for individual grid modules, it will use these results to prioritize areas for study of arc energy risks. Long term, the company anticipates incorporating the methodology into its planning study process.

Pilot Program No. 10

Name of Pilot Program: Pyregence Ignition Modeling

2020 WMP Reference: 5.3.1.2-5.3.1.5

Brief Description: As part of the California Energy Commission's Next Generation

Utility Wildfire Toolset, PacifiCorp has supported the grant development and participated in a technical advisory committee role to create practical tools for utility operations and engineering

personnel to deploy as part of their wildfire mitigation and risk management activities. The Pyregence Ignition modeling tool employs "match drop" simulation along specific corridors. This tool will allow a utility to strategically target the wildfire risk associated with particular assets over a forecast period (up to five days) in support of operational decisions, including PSPS segmentation designs.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: The pilot project is in trial use and expected to migrate to widespread application over the next two quarters. The pilot product was first shared with technical advisory committee (TAC) members in March, 2020. Since that time, PacifiCorp has rendered the forecast products into its engineering and operations environment.

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: A designated PacifiCorp platform has been created and network characteristics, including circuit zones of protection-level details has been provided to the Pyregence team, which is overlaying its calculation engine onto this base data.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: The modeling process allows for short-term analysis of risk events within the electrical network. Such information will be used to elevate operational actions within the network in alignment with those areas which signal elevated risk.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: As results are assessed and company tools modified to rapidly incorporate the results of analysis, the information will be broadly shared across the business to allow a common

perspective of elevated wildfire risk areas at any given point in time. Such information also facilitates effective deployment of local resources in response to the elevated risks.

Pilot Program No. 11

Name of Pilot Program: Advanced weather monitoring and weather stations

2020 WMP Reference: 5.3.2.1

Brief Description: This pilot focuses on exploring of the benefits of RAWS (remote automatic weather system) stations versus micro weather stations. The company is installing multiple RAWS station, to participate in the RAWS weather network and to calibrate RAWS stations with previously-deployed microstation. Participation in the RAWS weather network may enhance coordination with public safety partners and utility situational awareness. In particular, improved situational awareness may support modifications of system operations in response to risk periods that are weather dependent. Calibration between public and private weather systems may improve correlation between weather systems and their sensitivities to specific patterns, notably improving coordination between NIFC (National Interagency Fire Center) and USFS (United States Forest Service) and utility situational awareness.

Condition (ii): "status of the pilot, including where pilots have been initiated and whether the pilot is progressing toward broader adoption"

Response: PacifiCorp has received RAWS stations and microstations and plans to complete installations during the month of September, 2020. Weather stations are being placed in Klamath Glen, Smith River, Cave Junction/Patricks Creek, Hornbrook, Fort Jones/Scott Valley, McCloud, Alturas, and Montague. (See response to PC-2 and Attachment D for graphic illustration.) PacifiCorp is installing two RAWS stations in its California service territory, at Klamath Glen and Smith River. (PacifiCorp is also installing additional RAWS stations in Oregon, including two just north of the state line in Grants Pass area.).

Condition (iii): "results of the pilot, including quantitative performance metrics and quantitative risk reduction benefits"

Response: Good results with initial base system of microstations informing risk and enhancing operational response during elevated risk periods.

Condition (iv): "how the electrical corporation remedies ignitions or faults revealed during the pilot on a schedule that promptly mitigates the risk of such ignition or fault, and incorporates such mitigation into its operational practices"

Response: The pilot for weather station placement doesn't correlate to ignitions or faults; insight into weather patterns as detected by the company's weather station has allowed for strategic actions of its operational plans including modifying system protection settings, pre-risk line and vegetation patrols and strategic siting of line personnel during elevated risk periods.

Condition (v): "a proposal for how to expand use of the technology if it reduces ignition risk materially"

Response: While the company has not yet identified an ideal weather station density it expects to continue to enhance its weather network, particularly as it evaluates the RAWS to microstation correlations.

Pilot Program No. 12

Name of Pilot Program: Risk Modeling Pilot

2020 WMP Reference: 5.3.1.2

Brief Description: The purpose of this pilot is to develop new methodologies in wildfire risk assessment. The project, including status, results, and a wide range of potential applications, are described in greater detail in PacifiCorp's response to Guidance-3, as set forth in the Remedial Compliance Plan, filed July 27, 2020.

<u>Guidance-10, Data issues – general</u>

General Response to Deficiency: PacifiCorp appreciates the willingness of the WSD to consider some of the logistical challenges in providing GIS data. Consistent with the Wildfire Safety Division (WSD) Geographic Information System (GIS) Data Reporting Requirements and Schema for California Electrical Corporations, PacifiCorp has prepared its WSD GIS Data Schema Report, which is provided as Attachment C: WSD GIS Data Schema Status Report.

In its WSD GIS Data Schema Report, PacifiCorp completed all of the required fields and identified where GIS data is currently available and was submitted in the 2020 WMP, as well as areas where creation of required GIS data requires translation and extraction from other data repositories, changes to data capture policies and processes, or completion of a physical inventory to compile required data with subsequent data extraction and translation efforts to follow. Data currently available in GIS format will be translated to the new WMP data schema and provided with the company's 2021 WMP filing. Where significant effort and dedicated resources are required to develop and implement data extraction and translation, PacifiCorp anticipates additional dialogue with the WSD regarding how compliance can be accomplished in the most efficient manner. Along the same lines, efforts focused to inventory assets or compile additional data will follow.

Guidance-11, Lack of detail on plans to address personnel shortages

General Response to Deficiency: PacifiCorp does not have a personnel shortage that would frustrate completion of the planned wildfire mitigation activities in its California service territory, not is it currently forecasting any personnel shortage. The company is confident that it has adequate current personnel to accomplish the planned mitigation initiative objectives in the 2020 WMP, and it will update plans appropriately if that assessment changes.

With respect to line construction services needed to complete WMP initiatives, the company will deploy internal and external resources. For line services performed by company personnel, the close proximity of the company's more densely populated Oregon and Washington service territories alleviate any personnel shortage concerns (if there were any). In its California service territory, PacifiCorp has dedicated craft line personnel in the following numbers: 20 Linemen, 3 Communication Technician, 2 Relay Technician, and 3 Substation Wiremen. In juxtaposition to those numbers, PacifiCorp has craft line personnel in Oregon and Washington available to support California operations, in the following numbers: 219 Linemen, 13 Communication Technicians, 20 Relay Technician, and 36 Substation Wiremen.

Construction activity is supplemented through the use of contract line resources, as needed. And a large percentage of vegetation management activities are performed by contracted resources. In Section 5.5 of the 2020 WMP, PacifiCorp outlined that qualified contractor resources are an "area of concern." PacifiCorp will continue to monitor this issue. At this time, however, contractors are sufficiently available for the construction activities associated with the California wildfire mitigation efforts. The concern is more squarely focused on cost, because the abundance of work will have a direct impact on the price bid by contractor. It also has an impact on cost through the use of overtime and extended travel time.

Response to Conditions:

Condition (i): "a listing and description of its programs for recruitment and training of personnel, including for vegetation management"

PacifiCorp's recruitment and training strategies for key positions rely on collaboration with stakeholders, including local management, labor relations and community relationships.

With respect to the recruitment and training of craft personnel, PacifiCorp has multi-year apprenticeship programs. This approach ensures that a pipeline of trained employees are ready to

either backfill vacant positions or expand the internal workforce as needed. An apprenticeship includes classroom and job site training, with mandatory assessments before successfully completing the program. PacifiCorp currently has 44 apprentices, in the following numbers: 24 Linemen, 2 Relay Tech, 8 Estimators, and 10 Metermen.

With respect to vegetation management, PacifiCorp's recruitment and training strategies focus on management of the contractual relationship with independent contractors. PacifiCorp's vegetation management program is a 100% contracted front-line resource, managed by internal management and the company's eight utility foresters. PacifiCorp requires that its utility foresters are certified arborists and certified utility specialists by the International Society of Arboriculture (ISA). PacifiCorp is not directly responsible for the training of the vegetation management workforce who are employees of an independent contractor. All of PacifiCorp's master contracts with vegetation management service providers, however, include contractual requirements for contractors to provide qualified and trained individuals to safely accomplish the work. This includes International Society of Arboriculture (ISA) certification for working in proximity to energized conductors.

Condition (ii): "a description of its strategy for direct recruiting and indirect recruiting via contractors and subcontractors"

PacifiCorp works with contractors to evaluate the work volume on the planning horizon that is available for contractors to bid. Visibility into available work in a geographical area allows the contractors to effectuate their own recruitment and retention strategies. Specific to vegetation management, Pacific Power has master level agreements with three vendors based on region. This allows resource flexibility as the three vendors have resource pools that extend beyond PacifiCorp's service territory. In 2020, PacifiCorp was able to increase the number of

vegetation management crews working in its western state territories (California, Oregon, and Washington) to 129, of which 27 are dedicated to work in California.

Condition (iii): "its metrics to track the effectiveness of its recruiting programs, including metrics to track the percentage of recruits that are newly trained, percentage from out of state, and the percentage that were working for another California utility immediately prior to being hired"

PacifiCorp regularly reviews the effectiveness of participation in California-specific career fairs, such as the annual Northwest Lineman Career Fair in Oroville, California, and online recruitment opportunities that target local communities. Adjustments to outreach efforts are made based on the number of qualified applicants received from specific sources. The company regularly researches new opportunities to notify qualified individuals of career opportunities. The company tracks the recruitment process primarily through the following metrics: number of applicants; number of qualified applicants; number of qualified minority, women, disabled and veteran applicants; number of declined offers; length of employment; training delivered to newly hired employees; training delivered to all employees; and internal employee movement (e.g. from one job classification to another or from one location to another).

Guidance-12, Lack of detail on long-term planning

General Response to Deficiency: PacifiCorp agrees with the WSD that a more detailed discussion of utilities' long-term wildfire mitigation plans would be useful, including in assessing how particular initiatives align with a utility's long-term plan. From a long-term perspective, there has been an emphasis on wildfire mitigation for at least a decade. But the pace undeniably accelerated in recent years, and the long-term vision can quickly evolve in that type of environment. Against the background of the 2017 and 2018 fire seasons, through significant legislative action and regulatory action including the opening of two rulemakings on the wildfire issue, considerable energy has been devoted to planning immediate and near-term mitigation

activities which include execution of initiatives detailed in utilities' 2019 and 2020 WMPs. While a long-term vision has been influencing PacifiCorp's planning process every step of the way, the company will make a greater effort to share the details of that long-term vision, and how individual initiatives align with it, in future WMP filings.

PacifiCorp stresses that any long-term view needs to be, first and foremost, flexible and adaptive to new information and emerging technologies. PacifiCorp's long-term planning is rooted in developing a reliable "framework" for future decision making, rather than a long-term plan based on absolute numerical certainty. For this reason, PacifiCorp was hesitant to set forth specific 10 year figures in many template boxes in the 2020 WMP. Even now, the company is unable to identify definite projects beyond the current timeline for completion of finite Tier 3 hardening projects currently scheduled for completion in 2023. PacifiCorp can, however, do a better job of describing the framework that the company expects to use in making future decisions on a long-term basis. There are a number of factors which influence this decision-making framework.

First, a critical area compelling flexibility in long-term planning is the evolving nature of wildfire risk assessment, both with respect to ignition probability and consequence probability. As discussed in PacifiCorp's prior response to Guidance-03, in its Remedial Compliance Plan, the company is at an important juncture in adding another layer of sophistication to utility wildfire risk assessments, by developing a more granular and localized risk assessment associated with specific utility assets. Based on the good work of the state-wide mapping process (itself a long and deliberative process), PacifiCorp's wildfire mitigation emphasis in the last two years has been to implement transformative system hardening in the Tier 3 areas of PacifiCorp's service territory. These are impactful mitigation activities and significantly reduce any risk of a

catastrophic event. As discussed in response to Guidance-04 above, PacifiCorp further anticipates that these efforts will drastically reduce, if not essentially eliminate the potential for PSPS (as currently conceived) in those Tier 3 areas.

PacifiCorp does not, however, believe that it will be appropriate to simply copy this Tier 3 approach and replicate it across the entirety of its Tier 2 area. Instead, PacifiCorp anticipates that more localized and granular wildfire risk modeling may identify pockets of higher profile risk areas in Tier 2, reflecting Tier 3 type risk in those isolated areas of Tier 2. In other words, certain circuits or segments of circuits may be identified for system hardening work similar to what PacifiCorp is doing in Tier 3 under the WMP. In addition, more granular risk assessments may even offer insight into whether particular initiatives might be more effectively applied in certain areas versus other areas (or even at certain times versus other times). In sum, our evolving understanding of wildfire risk assessment is going to be a significant factor in the framework for long-term wildfire mitigation planning.

Second, PacifiCorp will continue to evaluate the effectiveness of individual initiatives. For example, from a dollar perspective, the conversion of existing lines to covered conductor reflects the highest magnitude of mitigation activity. While the basic technology has been around for a long time, very recent improvements in its performance and durability have fundamentally altered the dynamics of the design. Ongoing assessments of actual performance in the field will provide critical information about these deployments. At this time, as discussed in response to Guidance-2 above, PacifiCorp strongly believes that covered conductor has emerged as a highly effective wildfire mitigation technology. It also carries significant reliability benefits, giving it a dual purpose advantage. Accordingly, covered conductor conversions are an important part of PacifiCorp's long-term wildfire mitigation vision, including in certain Tier 2 areas (with

locations of such applications to be determined by the more advanced risk assessment work currently being done). If, however, the underlying conclusions of the effectiveness of this strategy are drawn into question, PacifiCorp is not "locked" into supporting this technology at the level currently anticipated. Especially because the development of covered conductor with additional layers of sheathing and its widespread application as a wildfire mitigation strategy is relatively novel, the company plans to continue its evaluation and its risk spend efficiency analysis of covered conductor. Historically covered conductor was deployed mostly to improve reliability, particularly to reduce incidental contact from vegetation and wildlife, not as a wildfire mitigation strategy. As these proceedings continue to explore the issue, PacifiCorp remains interested in lessons other utilities and stakeholders are able to share. In short, the preferred initiatives may change based on new information.

Third, PacifiCorp will continue to evaluate the potential for new initiatives suitable for wide spread application. If a new technology or new process emerges as an effective wildfire mitigation strategy, it could have a lasting impact on the entire long-term plan. Most wildfire mitigation strategies work in coordination with other strategies. And certain strategies (e.g. covered conductor) can reduce the incremental effectiveness of a different strategy (e.g. enhanced vegetation inspections), as compared to looking at that strategy in a vacuum. As discussed in response to Guidance-09, PacifiCorp is currently engaged in a number of pilot programs, each of which has the capacity to be proven effective for widespread application in a manner which could greatly impact long-term planning. The universe of potential new initiatives is not, however, limited by those specific pilots discussed in the response to Guidance-09. PacifiCorp is closely observing what the other utilities in California are doing. As those utilities adapt to the greater challenges posed by Santa Ana and Diablo winds, PacifiCorp believes that

innovations pushed forward by those companies can be excellent indicators of strategies that PacifiCorp can evaluate for application in the climate and environment of its northern California service territory. The company also continues to monitor developments outside the state of California, both in the United States (e.g. Texas) and internationally (e.g. Australia). Indeed, the pilot programs discussed in response to Guidance-09 have been heavily influenced by these observations and collaboration with experts in other jurisdictions.

Fourth, PacifiCorp is intrigued by the potential impacts to wildfire mitigation of other trends in the electric utility industry. The rapidly shifting electric utility landscape makes normative and inflexible long-term planning difficult – but, at the same time, the pace of change offers intriguing potential benefits in developing a responsive and flexible long-term planning framework. Furthermore, while PacifiCorp may not always be able to predict exactly how and when the electric utility landscape will change, the company's long-term vision for wildfire mitigation includes the ability to consider trends and adapt, where appropriate, to the changing grid topology and associated power flow.

Response to Conditions:

Condition (i): "its expected state of wildfire mitigation in 10 years, including 1) a description of wildfire mitigation capabilities in 10 years, 2) a description of its grid architecture, lines, and equipment"

Response: While PacifiCorp wants to remain flexible in its long-term planning, enough work has been done over the past decade to sketch an outline of how the 10 year plan is likely to look. From a nuts and bolts perspective, PacifiCorp will again emphasize the importance of doing "standard" well, no matter what new information and new technologies emerge. It may be perceived as business as usual, but tried-and-tested programs have a history of working. Over the past decade, PacifiCorp has focused on these programs to both mitigate against the wildfire risk

and to improve reliability. A critical aspect of PacifiCorp's 10 year program is to continue these gains. For example, the inspect and correct program will return better mitigation (and reliability) returns when it is repeatedly emphasized year-after-year, versus ever being in a situation where it has to make up ground from a lack of emphasis in prior years.

Moving from the "standard" to the "augmented" programs, PacifiCorp anticipates that it will likely be pursuing similar strategies in the years after 2023, as were employed in Tier 3 areas from 2019-2023. The core of these strategies will include: (i) multi-point grounding to ensure sensitivity to fault conditions; (ii) additional reclosers and other sectionalizing equipment, allowing for isolation strategies and wildfire mitigation relay settings; (iii) fuse coordination, including with deployment, where appropriate, of non-expulsion devices; and (iv) covered conductor conversions, including pole replacements and other line elements as necessary. The specific locations will be highly dependent on the more localized and granular risk assessments that PacifiCorp is currently developing (as described in response to Guidance-03).

Condition (ii): "a year-by-year timeline for reaching these goals"

Response: PacifiCorp plans to complete its more localized and granular risk assessments prior to the filing of the 2021 WMP and, leveraging that work, will conduct more sophisticated risk spend efficiency analysis, as discussed in response to Guidance-1. This work will be essential to setting a timeline for additional discrete projects within the 10 year timeframe.

Condition (iii): "a list of activities that will be required to achieve this end goal"

Response: Recognizing the value of having a framework for making decisions in the long-term planning process, PacifiCorp's 10 year outlook stresses process activities versus project-specific timelines. From this perspective, the wildfire mitigation plan itself has been proven to be the most important activity. As discussed above, one major activity required to

facilitate long-term planning is completion of the more localized and granular risk assessments contemplated in response to Guidance-03. PacifiCorp plans to have risk scores for every individual grid module in the HFTD. (A module is a section of a circuit that can be isolated by a control operation; a module is bounded by a sectionalizing or automated grid control device.)

Condition (iv): "a description of how the electrical corporation's three-year WMP is a step on the way to this 10-year goal"

Response: Above all, as discussed in response to prior Guidance conditions, completing the work contemplated in the 2020 WMP will have a profound impact by dramatically reducing the risk profile in the Tier 3 areas of PacifiCorp's service territory. This work itself is a major component of the 10-year goal, and mitigation of the Tier 3 risk will then facilitate greater resource allocation to Tier 2 areas. In the 2021 WMP and beyond, PacifiCorp will apply its continuously maturing risk assessments, to identify discrete projects planned for the extended 10-year timeframe. As reflected in the response to condition (iii) of this Guidance, the WMP itself is a key activity in the framework for making long-term decisions. As part of the WMP process, utilities complete a progress check on stated project goals and timelines. Preparation of a WMP allows for considerable reflection on programs and re-evaluation of priorities. Above all, the plan requires an annual assessment of the effectiveness of wildfire mitigation initiatives, which is critical information for framing future long-term planning.

The section below is responsive to the five Class B deficiencies and correlating conditions of WSD-008, applicable to PacifiCorp specifically.

PC-1, PacifiCorp's WMP does not report adequate planning for climate change

General Response to Deficiency: To address this deficiency, PacifiCorp will clarify certain elements in its 2020 WMP. As indicated in the previous discussion, PacifiCorp perceives

climate change as a top macro trend of concern. Indeed, PacifiCorp identified climate change as the *number one* macro trend of concern. (*See* Table 19 of PacifiCorp's 2020 WMP.) PacifiCorp does not, however, perceive that this issue necessarily implicates a separate planning process. Instead, the company believes that the impacts of climate change are assessed through the same risk assessment tools and fire modeling work utilized to develop the WMP.

To clarify its earlier comments, PacifiCorp recognizes climate change as likely being the greatest driving force behind revisions in upcoming risk assessments. As reflected in the term, "climate change," the phenomenon of increased levels of greenhouse gases in the atmosphere is changing the climate. Thus, when Section 5.3.1.2 of the 2020 WMP outlines PacifiCorp's initiative for climate-driven risk map modeling, climate change is at the center of the process.

In its 2020 WMP, PacifiCorp agrees it could have been more explicit in the role of climate change in ongoing climate-driven risk map modeling. PacifiCorp is deeply concerned that climate change could result in stronger Santa Ana winds in its service territory (also called Diablo winds in the northern part of the state). As discussed elsewhere in these responses, PacifiCorp is proud of its history of relatively few utility-related ignitions over the past many years. (And the company believes that this is objective, data-driven support for continuing solid standard operational practices.) With humility, however, PacifiCorp recognizes that dealing with fierce Santa Ana or Diablo winds presents a level of challenge that PacifiCorp has not historically had to face. In PacifiCorp's service territory, high winds are typically experienced simultaneous with substantial precipitation, changing the fire risk paradigm substantially. The utilities serving the large areas subject to Santa Ana or Diablo types of winds have had greater challenges.

PacifiCorp ranked climate change the top macro trend, and focused on wind speeds in its 2020 WMP Section 5.3.1.2, because climate change induced increases in wind severity could radically impact PacifiCorp's risk assessments. PacifiCorp is also painfully aware that other climate change impacts could significantly increase wildfire risk. For example, Table 19 noted the impact to live and dead fuel moisture levels, as well as to tree mortality. As the forests of northern California become drier due to climate change, PacifiCorp's wildfire risk is seriously exacerbated, particularly if it coincides with changing weather patterns for when high winds impact its service territory.

If climate change continues to increase the wildfire risk, PacifiCorp is also worried about the customer impact of its cost of service. PacifiCorp has a massive geographic territory relative to number of customers.⁴ A large geographic territory equates to many line miles per customer. With the notably expensive characteristic of aggressive wildfire mitigation, PacifiCorp is deeply concerned that increased winds and drying forests, caused by climate change, could dramatically impact customer costs. If the more extreme risk continues to move north, the length of lines to serve more remote areas becomes an even larger issue. As the cost to install and maintain lines per mile increases, there are fewer customers to share that incremental increase in cost.

On a positive note, PacifiCorp is encouraged about advancements in fire science modeling, and a key component of those advancements is a better understanding of long-term climate forecasting. Along these lines, PacifiCorp is participating in the Pyregence initiative, discussed more below. A better understanding of climate change will impact and better inform the entire risk assessment process. And better information allows for better wildfire mitigation planning.

⁴ PacifiCorp's service area has a population density of approximately four customers per square mile.

To this end, however, PacifiCorp will also voice a comment. Considerable work was done to complete the state-wide mapping process, resulting in an objective delineation of the Tier 2 and Tier 3 areas in the HFTD. PacifiCorp is hesitant to break from this process based on any future trend projections. While PacifiCorp disagreed with others regarding certain discrete issues that arose during the mapping project (particularly as it calibrated the effect of these approaches on its legacy fire history), as a whole it was very positive process and established a baseline set of expectations, particularly since it was coupled with many rule changes in existing General Orders. It reflected a deliberative process which allowed a large variety of stakeholders to make input. For all of the reasons discussed in the response to Guidance-03 in the Remedial Compliance Plan, PacifiCorp understands that it may make some individualized adjustments to this framework based on ongoing risk assessments of an increasingly granular and localized nature. When talking about such a macro trend such as climate, we also need to be thinking, however, about the potential of an update to the state-wide wildfire risk assessment map.

Response to Conditions:

Condition (i): "describe how it incorporates climate change into risk models"

Response: Climate change has always been a central factor in PacifiCorp's risk models, precisely because climate is a central input in those models. Admittedly, those models have typically focused on the "current state" of risk. Therefore, the modeling captures the impacts of climate change already realized. As utilities and stakeholders alike have tried to develop better and more sophisticated models as well as implement the first stages of aggressive wildfire mitigation, PacifiCorp believes that the focus on the current state has been appropriate. As our tools and understanding have improved, however, PacifiCorp recognizes the value to incorporating additional forward-looking models to better aid long-term planning efforts.

To this end, PacifiCorp is energetically participating in the Pyregence Consortium⁵ which is developing and facilitating new, cutting-edge wildfire risk modeling tools to aid forwardlooking mitigation planning. Heide Caswell, PacifiCorp's Director of Transmission & Distribution Asset Performance/Wildfire Mitigation, is on the Pyregence Technical Advisory Committee. On the specific issue of climate change, there is an entire workgroup devoted to this issue. In fact, "Climate Change & Fire" is one the four workgroups (the other three are: "Extreme Weather," Fire Science," and "Fire Forecasts"). More information about the climate change workgroup is available at: https://pyregence.org/scenario-analyses. PacifiCorp expects that these efforts will integrate a forward-looking understanding of potential climate change impacts into future iterations of PacifiCorp's wildfire risk modeling and wildfire risk assessment. Finally, as this work matures, PacifiCorp intends to incorporate a changing underlying fire risk approach which accounts for credible climate change scenarios. The company outlined in its prior response to Guidance-03, its roadmap for fire risk quantification, which allows for electric equipment and the appropriate topology to be overlaid against a variety of risk influencers to allow for quantification and prioritization of mitigation measures. PacifiCorp anticipates climate change scenarios will weigh more heavily in those future risk assessments.

Condition (ii): "outline in detail how it plans to use these risk models to deploy wildfire initiatives"

Response: Application of the risk models is somewhat dependent on the results of the future modeling efforts. If next generation fire science models yield similar results, there would be little cause to change current planning initiatives. More and better information is good – but it might not be different. If that modeling confirms that risk is best perceived from a "flat

⁵ <u>https://pyregence.org/</u>

perspective" – meaning a relatively uniform geographic treatment irrespective of seasonal weather variation – PacifiCorp will likely deploy initiatives consistent with the current plan (absent, of course, technological improvements, etc., outside the risk modeling efforts). If, on the other hand, modeling developments reveal concrete and reliable variations of risk on both or either (i) a more localized and granular level or (ii) a time-sensitive level, then PacifiCorp will evaluate whether initiatives can be deployed to maximize efficiencies in risk reduction based on that risk modeling. Finally, we must recognize the unfortunate reality that future risk modeling may predict even more severe wildfire risk than currently projected. In that case, the risk spend efficiency analysis for many initiatives would presumably shift towards justification of more aggressive initiative deployment, whose cost, higher or lower, would be justified due to the incremental reduction in risk.

PC-2, PacifiCorp has not demonstrated effective weather station utilization

General Response to Deficiency: As indicated in the WMP, PacifiCorp plans to install 10 additional weather stations in 2020. When the WMP was filed, PacifiCorp had not yet finalized the locations for these weather station installations. Accordingly, the locations for 2020 installations were not included in the 2020 WMP document. PacifiCorp can now report that, in the interim, final locations were selected for the 2020 and that the locations chosen by PacifiCorp align extremely well with the guidance provided by WSD in PC-2.

Response to Conditions:

Condition (i): "explain in detail how it chooses to locate its weather stations and explain gaps or areas of lower weather station density"

Response: Because of the importance of localized, real-time weather data to any PSPS program, PacifiCorp's main priority in 2019 was locating weather stations in and around defined proactive de-energization zones. PacifiCorp's service territory, especially its territory in the

HFTD, is sparsely populated, and much of the area is state, federal and tribal lands. There is limited amount of developed infrastructure, including weather stations. Prior to the siting of PacifiCorp's 2019 station installations, only a handful of National Weather Station and National Interagency Fire Stations existed, and they weren't generally located proximate to the populations which would have been impacted by PSPS. As result, peppering those stations in the vicinity to support situational awareness for PSPS was deemed highest priority.

The company engaged REAX to provide input regarding the best placement of stations, considering topography and climate trends. After the target locations were established, PacifiCorp reviewed those locations with the National Weather Service office in Medford, Oregon (which supports Siskiyou County, California for much of its weather forecasting). All data collected by these stations is communicated into MesoWest (operated by the University of Utah), which aggregates all climate data and makes it publicly available, on a 10 minute refresh.

Going into 2020, PacifiCorp's perspective was very similar to comments expressed in PC-2, and PacifiCorp has focused on better coverage across its whole service territory and near populated communities bordering Tier 2 areas. PacifiCorp is expanding the system to establish a more macro understanding across its service territory, including outside the PSPS areas.

PacifiCorp has continued to work with REAX to determine the most efficient locations. The analysis uses distance and elevation change from a particular circuit zone to the closest weather stations in the area to determine locations reflecting data gaps. Thereafter, the company engaged weather experts, including at the National Weather Service and participants of the Pyregence project, and fire response professionals, including at the Bureau of Land Management (BLM) and the National Interagency Fire Center, to consider the proposed locations. The company is also integrating the use of BLM's RAWS network (by installing 10 stations throughout

California, Oregon and Washington) to provide information within its operational awareness rubric, in addition to informing the National Interagency Fire Council's understanding of weather inputs.

The actual 2020 weather station installations are in process and should be complete within weeks of filing of these responses, before the end of September 2020. The location of those weather stations is shown on Attachment D: PacifiCorp Weather Stations. As displayed in the map, new stations being installed in 2020 cover Scott's Valley, Hornbrook and the greater Yreka operating area. Other population clusters near Tier 2 boundaries are addressed, including Alturas. For clarity, however, it is worth noting that there is no plan to extend PSPS to such areas. The expansion of the weather station network is solely intended to expand PacifiCorp's general situational awareness, improve risk modeling efforts in those areas, and, as suggested by the WSD, develop a better understanding of how weather systems are moving across the entire territory.

As indicated in the 2020 WMP, PacifiCorp plans to install 15 more weather stations in 2021-23. The company will engage in a similar process to that used in 2020, looking to topography, climate trends, and the proximity of other stations to continue to fill any gaps in the territory wide network.

Condition (ii): "provide a cost/benefit analysis of the impact of having a higher density of weather stations across its territory"

Response: In juxtaposition against the societal costs of PSPS, the direct costs of weather modeling with poor or insufficient data, and the benefits of more informed risk assessments, PacifiCorp has determined that the installation and maintenance costs to have a higher density of weather station across its territory is justified. As risk assessment becomes more granular and localized, as discussed previously in reference to Guidance-03, the company will continue to

evaluate the cost/benefit of additional weather stations in its service territory. The company anticipates that additional stations will be recommended as that work matures.

PC-3, PacifiCorp did not explain how it would track effectiveness of its covered conductor initiative

General Response to Deficiency: PacifiCorp intends to track the effectiveness of the covered conductor program exactly how suggested in the statement of the correlating condition. This omission was simply an oversight in the 2020 WMP.

Response to Conditions:

Condition: "present and explain a methodology for tracking and measuring the effectiveness of its covered conductor installations at reducing the frequency and probability of (1) outages for top 10 outage causes based on best available historical data, and (2) ignitions for all CPUC reportable ignitions"

Response: PacifiCorp agrees that referencing (1) the top 10 outage causes based on best available historical data and (2) ignitions for all CPUC reportable ignitions is the best way to track effectiveness.

PC-4, PacifiCorp's WMP lacks a QA/QC program for inspections

General Response to Deficiency: This issue implicates some of the same questions regarding "standard operations" versus "augmented wildfire operations" discussed in response to Guidance-6. In the WMP, PacifiCorp indicated that it did not "have a specific asset management and inspections program for wildfire risk mitigation that is focused on quality assurance/quality control of inspections." More precisely, PacifiCorp does not have a separate QA/QC program administered outside of the normal inspection process and budget. In other words, it does not track associated costs in a separate memorandum account. Accordingly, the QA/QC program is labelled as a standard operation and supported by the normal inspection budget.

This administrative treatment should not, however, dictate a particular conclusion about the QA/QC program, and its support of wildfire mitigation goals. Again, the standard operations are not = weak on wildfire mitigation. The basic QA/QC program is appropriate; field-verifying randomly selected inspection results is best practices, in any industry. And PacifiCorp does feel a heightened sense of urgency in administering its inspection program generally, including in performing QA/QC on the inspection results. For example, data is reviewed continuously to confirm that inspections in the HFTD are meeting acceptable standards of performance.

Response to Conditions:

Condition (i): "provide details in specific asset management and inspection quality control, including providing planned spend information for these initiatives"

Response: Like many similar programs at other utilities, PacifiCorp's QA/QC of inspections is completed by selecting an appropriate percentage of inspection results, with locations determined at random from all zones to ensure coverage across PacifiCorp's entire service territory, and then field-checking the facility points at question. Because there are additional inspections occurring in the HFTD, there are then necessarily (although randomized over time) more QA/QC reviews of inspections in the HFTD. This approach is consistent with standard QA/QC methodology and statistical science. The planned spend information for this initiative is listed in column M of Attachment B: Guidance-5&6 Worksheet.

PC-6, PacifiCorp does not have a specific data governance wildfire mitigation program

General Response to Deficiency: Considerable data is stored in regularly maintained systems, which are used for a variety of functions. The company will coordinate with the WSD to assemble data in a manner which addresses the WSD's needs. It may be technically feasible to translate and extract all data relevant to wildfire mitigation initiatives from these systems into a centralized repository to support WMP efforts. As this process moves forward, however, the

company urges the WSD to keep in mind that PacifiCorp has only roughly 45,000 customers, who have to bear the cost of developing new data software solutions tailored to a specific purpose, and that a narrowly and precisely defined data structure will reduce flexibility in evaluating alternative correlations within data sets. As such, substantial governance around processes which need to be flexible to new theories and analysis may not be the optimal approach. In the interest of controlling costs passed to customers, PacifiCorp attempts to manage transitions to new data management processes using a deliberative and efficient approach.

PacifiCorp engages in collaborative research on utility ignitions. As a threshold issue, PacifiCorp supports the WSD's efforts to compile data on observed ignitions related to electric facilities, including near-misses, and looks forward to further collaboration regarding this data. PacifiCorp is also cautious, however, about over-emphasizing the statistical significance of observed ignitions in the field, especially at this early stage. As discussed in response to Guidance-1, PacifiCorp has a very small data set to evaluate. Even with larger data sets of actual ignitions from other utilities, there are scale issues with placing too much weight on that type of data. Along these lines, PacifiCorp believes that lab-based and computer modeled ignition research is most valuable. To that end, PacifiCorp has focused collaborative ignition research efforts on evaluating new technologies that show potential to reduce ignition probability. A number of examples are discussed in the response to Guidance-9. Moreover, PacifiCorp remains ready and willing to participate in additional collaborative research efforts with other electric utilities in California. Some degree of formal process can be useful to help facilitate such efforts. Technical workshops focused on the exchange of research on utility ignitions is an effective procedure to disseminate such research.

Response to Conditions:

Condition (i): "list and describe its data collection and governance policies"

Response: On July 21, 2020, PacifiCorp made a presentation of its 2020 Wildfire Mitigation Plan GIS Data and Schema, in which the company outlined and explained the multiple data collection, processing, and storage systems that are used in support of wildfire mitigation work. For convenience, a copy of the presentation slides is provided as Attachment E: PacifiCorp Slides - 2020 Wildfire Mitigation Plan GIS and Data Schema. In summary, PacifiCorp has robust systems for collecting and storing data. These systems were historically developed to support operation of the transmission and distribution electrical network.

Appropriate units of the company are able to access data in conjunction with those operations, and PacifiCorp personnel working on WMP activities are able to access that data as needed.

PacifiCorp looks forward to working with WSD to provide data in the formats requested by the WSD.

Condition (ii): "describe how it plans to track key aspects of WMP data"

Response: PacifiCorp plans to track data in the manner described in its 2020 Wildfire Mitigation Plan GIS Data and Schema. As outlined in response to Guidance-10, PacifiCorp anticipates working with the WSD to accomplish data sharing goals in an efficient manner. In summary, PacifiCorp plans to collect and store data in its well-developed systems designed to support ongoing transmission and distribution operations. At regular intervals, and as otherwise needed, the company will pull and assemble data to support risk assessment activities, plan future wildfire mitigation projects, track project progress, and evaluate the effectiveness of various wildfire mitigation initiatives.

Conclusion

PacifiCorp submits these responses to each of the Class B Deficiencies and associated

Conditions in both WSD-002 and WSD-008.

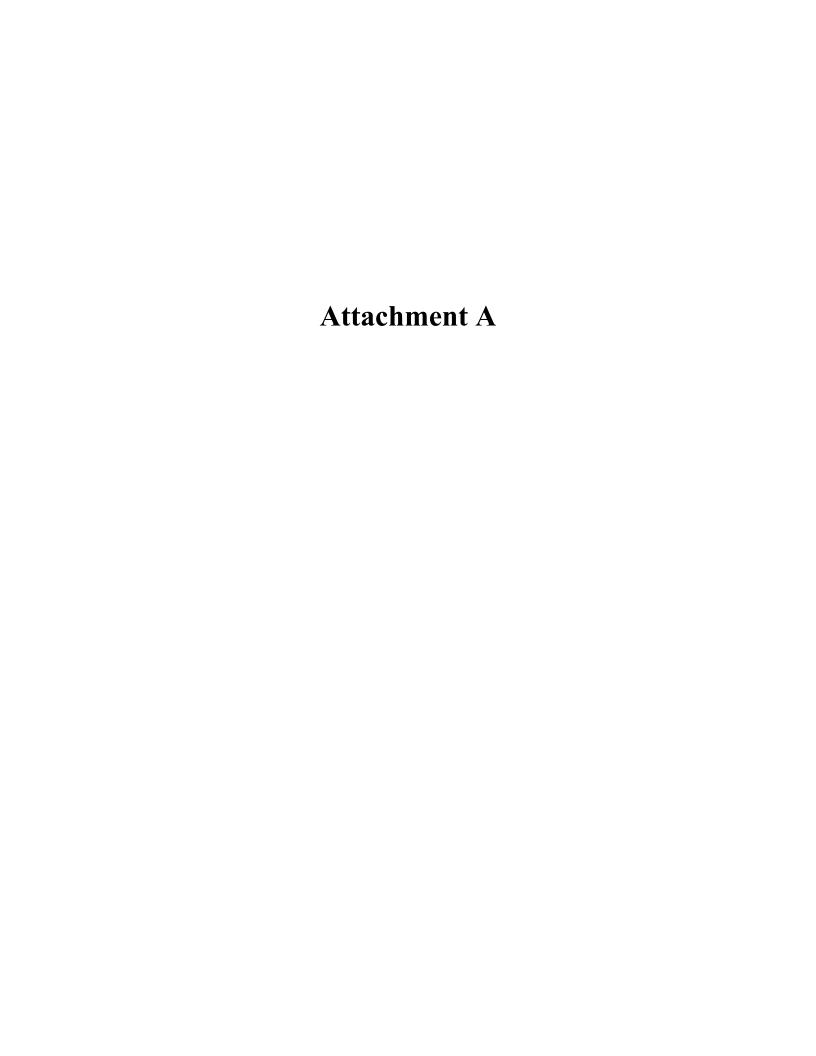
Respectfully submitted,

/s/ Tim Clark

September 9, 2020

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Attachment A: Alternatives to Initiatives (Guidance-2 Worksheet)

| INITIATIVE NAME AND DESCRIPTION | | | | | ALTERNATIVES TO INITIATIVES | | | | |
|---------------------------------|--------------------------------------|---|---|----|---|---|---|--|--|
| WMP Section Reference | Category | Initiative from WMP | PacifiCorp Applicable Initiative? [Yes/No] | | List of alternatives Considered | Notes | Rationale for Selection | | |
| 5.3.3.1 | Grid Design & System Hardening | Capacitor maintenance and replacement program | Yes | 1. | Infrastructure Upgrade (capacity) Voltage modification | Eliminate the need for capacitors through significant infrastructure capacity upgrade Use voltage modifications rather than line drop compensation to minimize placement of devices | Selection represents the lowest cost in the short/long term | | |
| 5.3.3.2 | Grid Design & System Hardening | Circuit breaker maintenance and installation to de- energize lines upon detecting a fault | Yes | 1. | Asset Replacement | Replace assets on first malfunction which would result in a large cost increase and resource requirement | Selection represents the lowest cost in the short/long term | | |
| 5.3.3.3 | Grid Design & System Hardening | Covered conductor installation – transmission | Yes | 1. | Underground Infrastructure | Underground systems | Selection represents the lowest cost in the short/long term | | |
| 5.3.3.3 | Grid Design & System Hardening | Covered conductor installation – distribution | Yes | 1. | Underground Infrastructure Covered conductor with crossarm construction | Underground systems Good alternative where impact loads are not expected, i.e. light incidental contact only | Selection represents the lowest cost in the short/long term | | |
| 5.3.3.4 | Grid Design & System Hardening | Covered conductor maintenance | No | | | | | | |
| 5.3.3.5 | Grid Design & System Hardening | Crossarm maintenance, repair, and replacement | No | | | | | | |

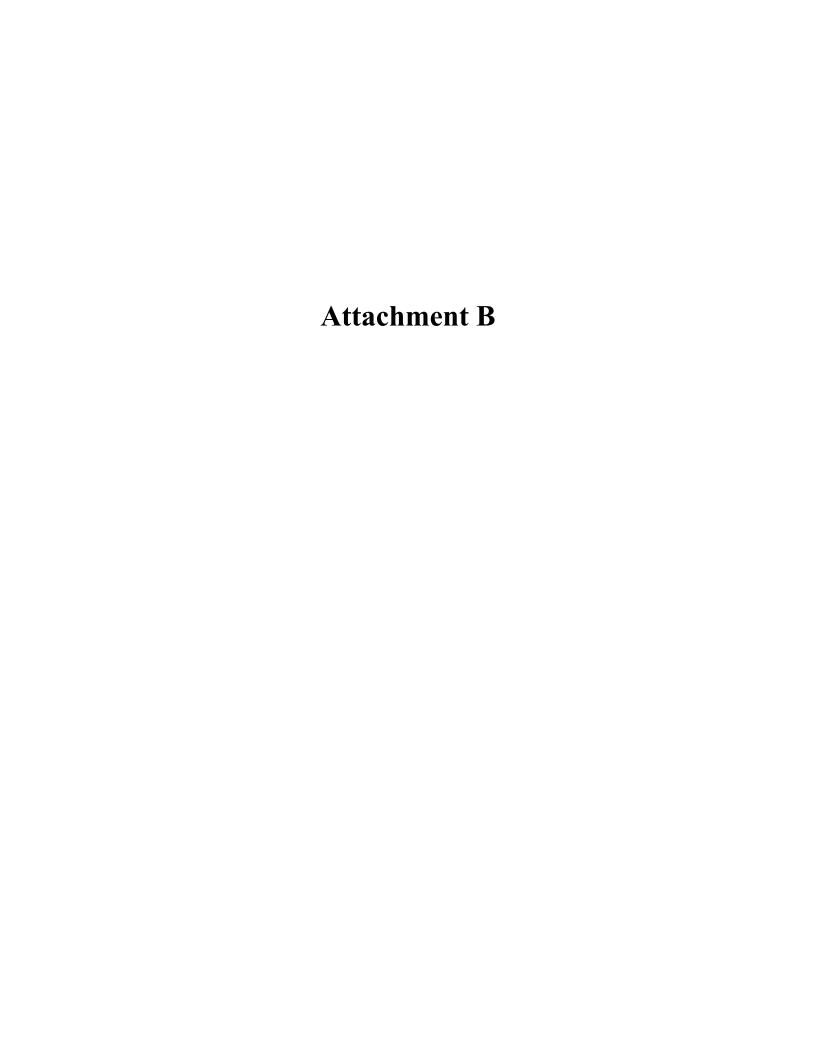
| 5.3.3.6 | Grid Design & System Hardening | Distribution pole replacement and reinforcement, including with composite poles | Yes | 1. 2. | Change in Policy Widespread system strength modeling program | Changes in Emergency Response practices to staff and stock additional materials and expedite restoration – expected to be high additional cost in comparison to acceleration of spend Snapshot of pole strength would quickly be outdated and generate backlog needing to be addressed | Selection represents the lowest cost in the short/long term |
|----------|--------------------------------------|--|-----|------------------------------------|---|--|---|
| 5.3.3.6 | Grid Design & System Hardening | Transmission pole replacement and reinforcement, including with composite poles | Yes | 1. | Change in Policy Widespread system strength modeling program | Changes in Emergency Response practices to staff and stock additional materials and expedite restoration - Extremely high additional cost in comparison to acceleration of spend Snapshot of pole strength would quickly be outdated and generate backlog needing to be addressed | Selection represents the lowest cost in the short/long term |
| 5.3.3.7 | Grid Design & System Hardening | Expulsion fuse replacement | Yes | 2. | Asset Relocation Installation of fast acting protective devices not operating on overcurrent, i.e. fusesaver | Remove fuses or move lines or fuses outside of the FHCA - Probably not practical given customer base and needs for P&C schemes/reliability In targeted areas expected to be optimal device, particularly when protective coordination curve options are limited | Selection best aligns with existing (or future) grid topology |
| 5.3.3.8 | Grid Design & System Hardening | Grid topology improvements to mitigate or reduce PSPS events | Yes | 1. | Expansion of PSPS Application | Instead of topology improvements, we could increase the scope of PSPS events | Selection reduces the need for PSPS related events |
| 5.3.3.9 | Grid Design & System Hardening | Installation of system automation equipment | Yes | 1. | Expansion of PSPS Application | System automation equipment supports faster detection of faults to reduce risk. Alternatively, the use of PSPS events could be expanded. | Selection reduces the need for PSPS related events |
| 5.3.3.10 | Grid Design & System Hardening | Maintenance, repair, and replacement of connectors, including hotline clamps | No | | | | |
| 5.3.3.11 | Grid Design & System Hardening | Mitigation of impact on customers and other residents affected during PSPS events | No | | | | |

| 5.3.3.12 | Grid Design & System Hardening | Other corrective action | No | | | | |
|----------|--------------------------------------|--|-----|----|---|--|---|
| 5.3.3.13 | Grid Design & System Hardening | Pole loading infrastructure hardening and replacement program based on pole loading assessment program | Yes | 1. | Expansion of PSPS Application Replace poles based on criteria rather than calculations | If we were not confident in pole loading, we may reduce PSPS thresholds or change the scope? Likely to overcompensate for "guidelines" and unnecessarily replacing specific poles, however may be an appropriate approach as patterns for calculation families become more established | Selection reduces the need for PSPS related events |
| 5.3.3.14 | Grid Design & System Hardening | Transformers maintenance and replacement | Yes | 2. | Infrastructure Upgrade (capacity) Install larger amounts of secondary conductor | An alternate, in certain cases, may be to increase the capacity of transformers so that the loading experienced is incredibly light, extending the life of the transformer and perhaps limiting maintenance requirements (or at least reducing the frequency) Where customer densities support such a tradeoff may be appropriate | Selection represents the lowest cost in the short/long term |
| 5.3.3.15 | Grid Design & System Hardening | Transmission tower maintenance and replacement | No | | | | |
| 5.3.3.16 | Grid Design & System Hardening | Undergrounding of electric lines and/or equipment | No | | | | |
| 5.3.3.17 | Grid Design & System Hardening | Updates to grid topology to minimize risk of ignition in HFTDs | No | | | | |
| 5.3.3.18 | Grid Design & System Hardening | Other - Replace small size Cu conductor | Yes | 1. | Installation of additional fuse locations Expansion of PSPS Application | Will also result in additional ignition risks unless new fuse locations are non-expulsion Without the ability of the infrastructure to support advanced protection and control, PacifiCorp may have to expand PSPS applications due to heightened risk | Selection best aligns with existing (or future) grid topology |

| 5.3.5.1 | Vegetation Manageme nt & Inspections | Additional efforts to manage community and environmental impacts | Yes | 1. | Change in Policy | Electing not to participate in this joint effort would results in the projects not being completed and is contrary to the goals underpinning SB901 and the company's WMP | Selection best aligns with existing (or future) grid topology |
|---------|---|---|-----|----------|----------------------------------|--|---|
| 5.3.5.2 | Vegetation Manageme nt & Inspections | Detailed inspection of vegetation around distribution electric lines and equipment | Yes | 1. | Alternate Method/Technology | Current pilot project not yet viable as a replacement to visual inspections, whether LiDAR, satellite data or drone usage | Alternatives not yet technical feasible/market ready |
| 5.3.5.3 | Vegetation Manageme nt & Inspections | Detailed inspection of vegetation around transmission electric lines and equipment | Yes | 1. | Alternate Method/Technology | Current pilot project not yet viable as a replacement to visual inspections whether LiDAR, satellite data or drone usage | Alternatives not yet technical feasible/market ready |
| 5.3.5.4 | Vegetation Manageme nt & Inspections | Emergency response vegetation management due to red flag warning or other urgent conditions | No | | | | |
| 5.3.5.5 | Vegetation Manageme nt & Inspections | Fuel management and reduction of slash (from vegetation management activities) | Yes | 1. 2. | Asset Replacement Biofuel | Alternatively, additional lines could be rebuilt with "fire-proof" materials As consumers of slash become more obvious may be a possible outlet of the leavings | Selection represents the lowest cost in the short/long term |
| 5.3.5.6 | Vegetation Manageme nt & Inspections | Improvement of inspections | Yes | 3. | None - Compliance Requirement | Compliance Requirement - No alternatives considered | Compliance Requirement |
| 5.3.5.7 | Vegetation Manageme nt & Inspections | LiDAR inspections of vegetation around distribution electric lines and equipment | No | | | | |
| 5.3.5.8 | Vegetation Manageme nt & Inspections | LiDAR inspections of transmission electric lines and equipment | No | | | | |
| 5.3.5.9 | Vegetation Manageme nt & Inspections | Other discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations | No | | | | |

| 5.3.5.10 | Vegetation | Other discretionary | No | | | | |
|----------|---------------|--|-----|----|-------------------|---|------------------------------|
| 5.3.5.10 | | | NO | | | | |
| | Manageme | inspection of vegetation | | | | | |
| | nt & | around transmission | | | | | |
| | Inspections | electric lines and | | | | | |
| | | equipment, beyond | | | | | |
| | | inspections mandated by | | | | | |
| | | rules and regulations | | | | | |
| 5.3.5.11 | Vegetation | Patrol inspections of | No | | | | |
| | Manageme | vegetation around | | | | | |
| | nt & | transmission electric | | | | | |
| | Inspections | lines and equipment | | | | | |
| 5.3.5.12 | Vegetation | Patrol inspections of | No | | | | |
| 3.3.3.12 | Manageme | vegetation around | 110 | | | | |
| | nt & | transmission electric | | | | | |
| | Inspections | lines and equipment | | | | | |
| F 2 F 12 | | | Yes | 1 | Nama Camadianaa | Companie as a dispess as a singuistra as a second | Commission on Bosseline mont |
| 5.3.5.13 | Vegetation | Quality assurance/ quality control of | res | 1. | None - Compliance | Supports compliance requirements - no alternatives considered | Compliance Requirement |
| | Manageme | | | | Requirement | alternatives considered | |
| | nt & | inspections | | | | | |
| | Inspections | | | | | | |
| 5.3.5.14 | Vegetation | Recruiting and training | No | | | | |
| | Manageme | of vegetation | | | | | |
| | nt & | management personnel | | | | | |
| | Inspections | | | | | | |
| 5.3.5.15 | Vegetation | Remediation of at-risk | No | | | | |
| | Manageme | species | | | | | |
| | nt & | | | | | | |
| | Inspections | | | | | | |
| 5.3.5.16 | Vegetation | Removal and | No | | | | |
| | Manageme | remediation of trees | | | | | |
| | nt & | with strike potential to | | | | | |
| | Inspections | electric lines and | | | | | |
| | | equipment | | | | | |
| 5.3.5.17 | Vegetation | Substation vegetation | No | | | | |
| 3.3.3.17 | Manageme | inspections | 110 | | | | |
| | nt & | mapeedions | | | | | |
| | Inspections | | | | | | |
| 5.3.5.18 | Vegetation | Substation vegetation | No | | | | |
| 5.5.5.18 | | | INO | | | | |
| | Manageme nt & | management | | | | | |
| | | | | | | | |
| | Inspections | | | | | | |
| 5.3.5.19 | Vegetation | Vegetation inventory | No | | | | |
| | Manageme | system | | | | | |
| | nt & | | | | | | |
| | Inspections | | | | | | |

| 5.3.5.20 | Vegetation | Vegetation management | Yes | 1. | None - Compliance | Compliance Requirement - No alternatives | Compliance Requirement |
|----------|-------------|---------------------------|-----|----|-------------------|---|---|
| | Manageme | to achieve clearances | | | Requirement | considered | |
| | nt & | around electric lines and | | | | | |
| | Inspections | equipment | | | | | |
| 5.3.5.21 | Vegetation | Other/not listed - Radial | Yes | 2. | Asset Replacement | Alternatively, additional lines could be | Selection represents the lowest cost in the |
| | Manageme | Pole Clearing | | | | rebuilt with "fire-proof" materials | short/long term |
| | nt & | | | 3. | Additional Pole | Certain locations and corridors may best be | |
| | Inspections | | | | Clearing (exempt | protected by fuel removal that could | |
| | | | | | poles) | damage pole lines | |





Attachment B: Initiative Level Detail Worksheet

Disaggregation of Programs (Guidance-5), Augmented versus Standard Operations (Guidance-6)

| | INITIATIVE NAM | ME AND DESCRIPTION | | | | | FINANCIA | AL AND ACC | DUNTING IN | FORMATION | V | | |
|-----------------------------|--|---|---|---|--|---|---|---|---|---|---|----------------------------|--|
| WMP Section Reference | Category | Initiative from WMP | PacifiCorp Applicable Initiative? [Yes/No] | Is Initiative Standard Operations, Augmented, or Combination? | If Combined Program: Proposed Method to Separate | Is Initiative budgeted and accounted for? [Yes/No] | Type of Expenditure (Capital or Expense) | Is Initiative Spending Currently Individual Tracked? [Yes/No] | If Yes, Current Method to Track Initiative Spend [Spending Sub- Account, etc.] | If No, Planned method to track initiative spend | Planned vs. As | Current 2020 Spend (\$) | Total 2020 Planned Spend (\$) |
| 5.3.1.1 | Risk Assessment and Mapping | A summarized risk map showing the overall ignition probability and estimated wildfire consequence along electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.1.2 | Risk Assessment and Mapping | Climate-driven risk map modeling based on various | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.1.3 | Risk Assessment and Mapping | Ignition probability mapping showing the probability of ignition along the electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 25,000 |
| 5.3.1.4 | Risk Assessment and Mapping | Initiative mapping and estimation of wildfire and PSPS risk-reduction impact | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | | \$ 38,889 | \$ 38,889 |
| 5.3.1.5 | Risk Assessment and Mapping | Match drop simulations showing the potential wildfire consequence of ignitions that occur along the electric lines and equipment | No | | | | | | | | | | |
| 5.3.1.6 | Risk Assessment and Mapping | Weather-driven risk map an modeling based on various relevant weather scenarios | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.1.7 | Risk Assessment and Mapping | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
| 5.3.2.1 | Situational Awareness and Forecasting | Advanced weather monitoring and weather stations | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Capital | Yes | Specific Orders | N/A | Planned | \$ 120,000 | \$ 166,000 |
| 5.3.2.2 | Situational Awareness and Forecasting | Continuous monitoring sensors | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Capital | yes | Specific Orders | N/A | Planned | \$ - | \$ 112,000 |
| 5.3.2.3 | Situational Awareness and Forecasting | Fault indicators for detecting faults on electric lines and equipment | No | | | | | | | | | | |
| 5.3.2.4 | Situational Awareness and Forecasting | Forecast of a fire risk index, fire potential index, or similar | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.2.5 | Situational Awareness and Forecasting | Personnel monitoring areas of electric lines and equipment in elevated fire risk conditions | Yes | Augmented Wildfire Operations | Not Combined - N/A | | Expense | No | N/A | Specific Orders | As Needed, Not specifically planned | \$ - | \$0 Not a specifically budgeted item |
| 5.3.2.6 | Situational Awareness and Forecasting | Weather forecasting and estimating impacts on electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |

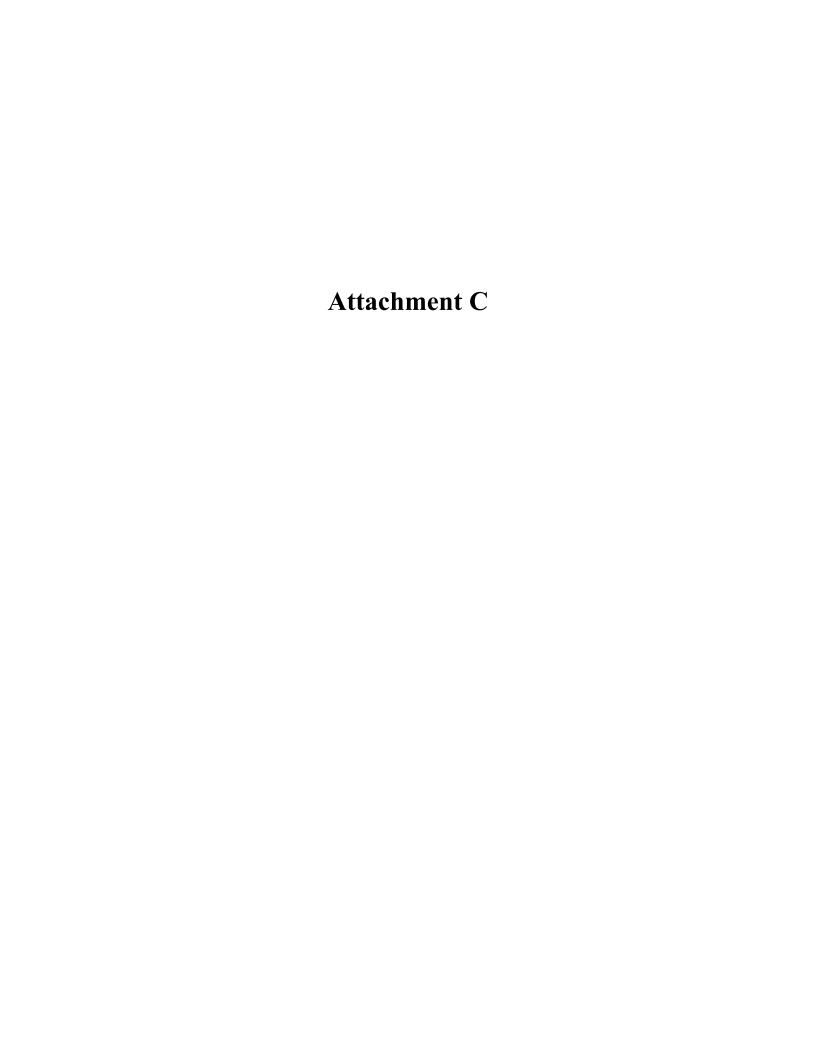
| 5.3.3.1 Grid Design & System Hardening Capacitor maintenance and replacement program 5.3.3.2 Grid Design & System Hardening Circuit breaker maintenance and installation to de-energize lines upon detecting a fault 5.3.3.3 Grid Design & System Hardening Covered conductor installation — Yes Augmented Vildfire Operations 5.3.3.3 Grid Design & System Hardening Covered conductor installation — Yes Augmented Vildfire Operations 5.3.3.4 Grid Design & System Hardening Covered conductor installation — Yes Augmented Vildfire Operations | Not Combined - N/A Not Combined - N/A Not Combined - N/A Not Combined - N/A | yes | Mixed Mixed Capital Capital | Yes Yes yes | GRC (Part of SOP) GRC (Part of SOP) Specific Orders | N/A N/A | Planned Planned | \$0 Incremental Spend \$0 Incremental Spend | \$0 No Incremental Spend \$0 No Incremental Spend |
|--|--|-----|-----------------------------|-------------------|---|----------------------|-----------------|--|--|
| installation to de-energize lines upon detecting a fault 5.3.3.3 Grid Design & System Hardening transmission 5.3.3.3 Grid Design & System Hardening Covered conductor installation — Yes Augmented Operations 5.3.3.3 Grid Design & System Hardening Covered conductor installation — Yes Augmented Wildfire Operations 6.3.3.3 Grid Design & System Hardening Covered conductor installation — Yes Augmented Wildfire Operations | s N/A Not Combined - N/A Not Combined - N/A Not Combined - N/A | yes | Capital | | (Part of SOP) | - | | | No Incremental Spend |
| transmission Wildfire Operations 5.3.3.3 Grid Design & System Hardening distribution Covered conductor installation — Yes Augmenter distribution Vildfire Operations | N/A Not Combined - N/A | | | yes | Specific Orders | N/A | Planned | \$ - | |
| distribution Wildfire Operations | N/A | yes | Capital | | | | | | \$ 5,800,000 |
| | | | | yes | Specific Orders | N/A | Planned | \$ 1,000,000 | \$ 13,000,000 |
| | | | | | | | | | |
| 5.3.3.5 Grid Design & System Hardening Crossarm maintenance, repair, and No replacement | | | | | | | | | |
| 5.3.3.6 Grid Design & System Hardening Distribution pole replacement and reinforcement, including with composite poles Operations | N/A | Yes | Capital | yes | Specific Orders | N/A | Planned | \$ - | \$ 329,000 |
| 5.3.3.6 Grid Design & System Hardening Transmission pole replacement and reinforcement, including with Wildfire Composite poles Operations | N/A | Yes | Capital | yes | Specific Orders | N/A | Planned | \$ - | \$ 3,672,000 |
| 5.3.3.7 Grid Design & System Hardening Expulsion fuse replacement Yes Augmenter Wildfire Operations | N/A | Yes | Capital | yes | Specific Orders | N/A | Planned | \$ - | \$0 No specific planned spend in 2020 |
| 5.3.3.8 Grid Design & System Hardening Grid topology improvements to Message Magmenter Wildfire Operations | N/A | NO | Capital | No | N/A | Specific Orders | Planned | \$ - | \$0 No specific planned spend in 2020 |
| 5.3.3.9 Grid Design & System Hardening Installation of system automation Yes Augmented Wildfire Operations | N/A | Yes | Capital | Yes | Specific Orders | N/A | Planned | \$ 500,000 | \$ 3,023,013 |
| 5.3.3.10 Grid Design & System Hardening Maintenance, repair, and replacement of connectors, including hotline clamps | | | | | | | | | |
| 5.3.3.11 Grid Design & System Hardening Mitigation of impact on customers and other residents affected during PSPS events | | | | | | | | | |
| 5.3.3.12 Grid Design & System Hardening Other corrective action No | | | | | | | | | |
| 5.3.3.13 Grid Design & System Hardening Pole loading infrastructure hardening and replacement program based on pole loading assessment program Operations | N/A | Yes | Expense | Yes | Specific Orders | N/A | Planned | \$ - | \$0 No specific planned spend in 2020 |
| 5.3.3.14 Grid Design & System Hardening Transformers maintenance and replacement Yes Standard Operations | Not Combined - N/A | Yes | Mixed | Yes | GRC (Part of SOP) | N/A | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.3.15 Grid Design & System Hardening Transmission tower maintenance and replacement No | | | | | | | | | |
| 5.3.3.16 Grid Design & System Hardening Undergrounding of electric lines No and/or equipment | | | | | | | | | |
| 5.3.3.17 Grid Design & System Hardening Updates to grid topology to minimize risk of ignition in HFTDs | N-AC 11 I | V | Carrital | V | Consilie C | 21/2 | Diamani | 6 | 100.000 |
| 5.3.3.18 Grid Design & System Hardening Other - Replace small size Cu Yes Augmented Conductor Wildfire Operations | N/A | Yes | Capital | Yes | Specific Orders | N/A | Planned | \$ - | \$ 498,000 |
| 5.3.4.1 Asset Management & Inspections Detailed inspections of distribution Yes Standard electric lines and equipment Operations | Not Combined - s N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |

| 5.3.4.2 | Asset Management & Inspections | Detailed inspections of transmission electric lines and equipment | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
|----------|--|---|-----|-------------------------------------|-----------------------|-----|---------|-----|--|------------------------|-------------------------------------|--------------------------|--|
| 5.3.4.3 | Asset Management & Inspections | Improvements of inspections | No | | | | | | | | | | |
| 5.3.4.4 | Asset Management & Inspections | Infrared inspections of distribution electric lines and equipment | No | | | | | | | | | | |
| 5.3.4.5 | Asset Management & Inspections | Infrared inspections of transmission electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | Yes | Specific Orders | N/A | Planned | \$ 70,000 | \$ 44,100 |
| 5.3.4.6 | Asset Management & Inspections | Intrusive pole inspections - Distribution | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.6 | Asset Management & Inspections | Intrusive pole inspections - Transmission | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.7 | Asset Management & Inspections | LiDAR inspections of distribution electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | Yes | Specific Orders | N/A | Planned | \$ - | \$0 No specific planned spend in 2020 |
| 5.3.4.8 | Asset Management & Inspections | LiDAR inspections of transmission electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | Yes | Specific Orders | N/A | Planned | \$ - | \$0 No specific planned spend in 2020 |
| 5.3.4.9 | Asset Management & Inspections | Other discretionary inspection of distribution electric lines and equipment, beyond inspections mandated by rules and regulations | No | | | | | | | | | | |
| 5.3.4.10 | Asset Management & Inspections | Other discretionary inspection of transmission electric lines and equipment, beyond inspections mandated by rules and regulations | No | | | | | | | | | | |
| 5.3.4.11 | Asset Management & Inspections | Patrol inspections of distribution electric lines and equipment | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.12 | Asset Management & Inspections | Patrol inspections of transmission electric lines and equipment | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.13 | Asset Management & Inspections | Pole loading assessment program to determine safety factor | No | | | | | | | | | | |
| 5.3.4.14 | Asset Management & Inspections | Quality assurance/ quality control of inspections | Yes | Augmented Wildfire Operations | Not Combined - N/A | no | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.15 | Asset Management & Inspections | Substation inspections | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.4.16 | Asset Management & Inspections | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
| 5.3.5.1 | Vegetation Management & Inspections | Additional efforts to manage community and environmental impacts | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | \$ - | \$0 Not a specifically budgeted item |
| 5.3.5.2 | Vegetation Management & Inspections | Detailed inspection of vegetation around distribution electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | Yes | Specific classification within system of record (PVM) | N/A | Planned | \$ 1,000,000 | \$ 1,422,792 |
| 5.3.5.3 | Vegetation Management & Inspections | Detailed inspection of vegetation around transmission electric lines and equipment | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | Yes | Specific classification within system of record (PVM) | N/A | Planned | \$ 5,000 | \$ 723,897 |

| 5.3.5.4 | Vegetation Management & Inspections | Emergency response vegetation management due to red flag warning or other urgent conditions | No | | | | | | | | | | |
|----------|--|---|-----|-------------------------------------|---|-----|---------|-----|--|--|---|--------------------------|--|
| 5.3.5.5 | Vegetation Management & Inspections | Fuel management and reduction of slash (from vegetation management activities) | Yes | Augmented Wildfire Operations | Not Combined - N/A | no | Expense | No | N/A | Specific classification within system of record (PVM) | As Needed, Not specifically planned | \$ - | \$0 Not a specifically budgeted item |
| 5.3.5.6 | Vegetation Management & Inspections | Improvement of inspections | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.5.7 | Vegetation Management & Inspections | LiDAR inspections of vegetation around distribution electric lines and equipment | No | | | | | | | | | | |
| 5.3.5.8 | Vegetation Management & Inspections | LiDAR inspections of transmission electric lines and equipment | No | | | | | | | | | | |
| 5.3.5.9 | Vegetation Management & Inspections | Other discretionary inspection of vegetation around distribution electric lines and equipment, beyond inspections mandated by rules and regulations | No | | | | | | | | | | |
| 5.3.5.10 | Vegetation Management & Inspections | Other discretionary inspection of vegetation around transmission electric lines and equipment, beyond inspections mandated by rules and regulations | No | | | | | | | | | | |
| 5.3.5.11 | Vegetation Management & Inspections | Patrol inspections of vegetation around transmission electric lines and equipment | No | - | | | | | | | | | |
| 5.3.5.12 | Vegetation Management & Inspections | Patrol inspections of vegetation around transmission electric lines and equipment | No | - | | | | | | | | | |
| 5.3.5.13 | Vegetation Management & Inspections | Quality assurance/ quality control of inspections | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.5.14 | Vegetation Management & Inspections | Recruiting and training of vegetation management personnel | No | | | | | | | | | | |
| 5.3.5.15 | Vegetation Management & Inspections | Remediation of at-risk species | No | | | | | | | | | | |
| 5.3.5.16 | Vegetation Management & Inspections | Removal and remediation of trees with strike potential to electric lines and equipment | No | - | | | | | | | | | |
| 5.3.5.17 | Vegetation Management & Inspections | Substation vegetation inspections | No | | | | | | | | | | |
| 5.3.5.18 | Vegetation Management & Inspections | Substation vegetation management | No | | | | | | | | | | |
| 5.3.5.19 | Vegetation Management & Inspections | Vegetation inventory system | No | | | | | | | | | | |
| 5.3.5.20 | Vegetation Management & Inspections | Vegetation management to achieve clearances around electric lines and equipment | Yes | Standard Operations | Not Combined - N/A | Yes | Expense | Yes | GRC (Part of SOP) | N/A | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.5.21 | Vegetation Management & Inspections | Other/not listed - Radial Pole Clearing | Yes | Combination | System of record (PVM) tracks LRA separately | Yes | Expense | Yes | Specific classification within system of record (PVM) | N/A | Planned | \$ 500,000 | |
| 5.3.6.1 | Grid Operations & Protocols | Automatic recloser operations | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Capital | Yes | Specific Orders | N/A | As Needed, Not specifically planned | \$ - | \$0 Not a specifically budgeted item |
| 5.3.6.2 | Grid Operations & Protocols | Crew-accompanying ignition prevention and suppression resources and services | No | | | | | | | | | | |

| 5.3.6.3 | Grid Operations & Protocols | Personnel work procedures and training in conditions of elevated risk | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
|---------|--------------------------------------|--|-----|-------------------------------------|-----------------------|-----|---------|----|-----|---|---|--------------------------|--|
| 5.3.6.4 | Grid Operations & Protocols | Protocols for PSPS re-energization | Yes | Standard Operations | Not Combined - N/A | yes | Expense | No | N/A | GRC (Part of SOP) | Planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.6.5 | Grid Operations & Protocols | PSPS events and mitigation of PSPS impacts | No | | | | | | | | | | |
| 5.3.6.6 | Grid Operations & Protocols | Stationed and on-call ignition prevention and suppression resources and services | Yes | Standard Operations | Not Combined - N/A | No | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | \$ - | \$0 Not a specifically budgeted item |
| 5.3.6.7 | Grid Operations & Protocols | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
| 5.3.7.1 | Data Governance | Centralized repository for data | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.7.2 | Data Governance | Collaborative research on utility ignition and/or wildfire | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.7.3 | Data Governance | Documentation and disclosure of wildfire-related data and algorithms | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | Planned | \$ 38,889 | \$ 38,889 |
| 5.3.7.4 | Data Governance | Tracking and analysis of near miss data | Yes | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Statistical order for internal FTE WMP tracking | | \$ 38,889 | \$ 38,889 |
| 5.3.7.5 | Data Governance | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
| 5.3.8.1 | Resource Allocation Methodology | Allocation methodology development and application | No | | | | | | | | | | |
| 5.3.8.2 | Resource Allocation Methodology | | No | | | | | | | | | | |
| 5.3.8.3 | Resource Allocation Methodology | Risk spend efficiency analysis | No | | | | | | | | | | |
| 5.3.8.4 | Resource Allocation Methodology | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
| 5.3.9.1 | Emergency Planning & Preparedness | Adequate and trained workforce for service restoration | Yes | Standard Operations | Not Combined - N/A | No | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.9.2 | Emergency Planning & Preparedness | Community outreach, public awareness, and communication efforts | Yes | Standard Operations | Not Combined - N/A | | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.9.3 | Emergency Planning & Preparedness | Customer support in emergencies | Yes | Standard Operations | Not Combined - N/A | | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.9.4 | Emergency Planning & Preparedness | Disaster and emergency preparedness plan | Yes | Standard Operations | Not Combined - N/A | | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.9.5 | Emergency Planning & Preparedness | Preparedness and planning for service restoration | Yes | Standard Operations | Not Combined - N/A | | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |
| 5.3.9.6 | Emergency Planning & Preparedness | Protocols in place to learn from wildfire events | Yes | Standard Operations | Not Combined - N/A | Yes | Expense | No | N/A | GRC (Part of SOP) | As Needed, Not specifically planned | \$0 Incremental Spend | \$0 No Incremental Spend |

| 5.3.9.7 | Emergency Planning & Preparedness | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | | |
|----------|---|--|----|-------------------------------------|-----------------------|-----|---------|----|-----|------------------------|---|---|--|
| 5.3.10.1 | Stakeholder Cooperation & Community Engagement | Community engagement | | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | , | \$0 Not a specifically budgeted item |
| 5.3.10.2 | Stakeholder Cooperation & Community Engagement | Cooperation and best practice sharing with agencies outside of CA | | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | | \$0 Not a specifically budgeted item |
| 5.3.10.3 | Stakeholder Cooperation & Community Engagement | Cooperation with suppression agencies | | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | | \$0 Not a specifically budgeted item |
| 5.3.10.4 | Stakeholder Cooperation & Community Engagement | Forest service and fuel reduction cooperation and joint roadmap | | Augmented Wildfire Operations | Not Combined - N/A | Yes | Expense | No | N/A | Create specific orders | As Needed, Not specifically planned | | \$0 Not a specifically budgeted item |
| 5.3.10.5 | Stakeholder Cooperation & Community Engagement | Other/not listen [only is an initiative cannot feasibly be classified within those listen above] | No | | | | | | | | | • | |



| WSD Data | Schemas | Draft | V2 (20 | 20-09-09 | - Asset | Point |
|----------|---------|-------|--------|----------|---------|-------|
| | | | | | | |

| Point Column | Camera Field Name | Alias | Data Torra | Characteristic | Description . | Data annulded la | Availability Explanations | Data procurement actions Estimate | ted delivery | Confidential? |
|-----------------|---------------------------------|------------------------------------|------------|----------------|--|---------------------------------|--|--|--|---------------|
| Column | rieid Name | Alias | Data Type | Characteristic | Description | latest submission? (Yes/ No) | Availability Explanations | timefrar | | (Yes/No) |
| | 1 AssetID | Asset ID | text(50) | PK | Unique ID for a specific camera. It should be a traceable stable ID within the utility's operations/processes. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once ins with requirements if installed | stalled | No |
| | 2 UtilityID | Utility ID | text(10) | | Primary key for the Camera table. Standardized identification name of the utility | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | No |
| | 3 AssetType | Asset Type | text(10) | | ("UtilityG&E," etc.). Type of point asset. Required value: Camera | No | Device/Asset Not Currently Installed | Data will be procured consistent Once ins with requirements if installed | stalled | No |
| | 4 MakeandManufacturer | Make and Manufacturer | text(50) | | What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | Yes |
| | 5 ModelNumber | Model Number | text(30) | | Model number of the asset. Enter "Unknown" if this cannot be determined. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | Yes |
| | 6 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 | No | Device/Asset Not Currently Installed | Data will be procured consistent Once ins with requirements if installed | stalled | No |
| | 7 County | County | text(60) | | Zone 1 Non-HFTD | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | No |
| | 8 LastInspectionDate | Last Inspection Date | date | | County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once ins with requirements if installed | stalled | Yes |
| | 9 LastMaintenanceDate | Last Maintenance Date | date | | Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once ins with requirements if installed | stalled | Yes |
| | 10 InstallationDate | Installation Date | date | | Leave blank if unknown. Do not include time. Date the asset was installed. Use YYYY-MM-DD format. | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | Yes |
| | 11 InstallationYear | Installation Year | integer | | Leave blank if unknown. Do not include time. Year of asset installation. Use four digits. Enter "-99" if | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | Yes |
| | 12 UsefulLifespan | Useful Lifespan | integer | | unknown. The number of years an asset is expected to have a useful functioning existence upon initial installation. Use | No - | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | Yes |
| | 13 CameraHeight | Camera Height (feet) | float | | 99 for unknown. | No | Device/Asset Not Currently Installed | Data will be procured consistent Once inswith requirements if installed | stalled | Yes |
| | 14 CameraURL | Camera URL | text(255) | | Height of camera (in feet) above the ground below it. Website address for camera video feed (if publicly available). | No | Device/Asset Not Currently Installed | Data will be procured consistent Once ins with requirements if installed | stalled | No |
| | 15 AssetLatitude | Asset Latitude | float | | Latitude coordinate of asset (in decimal degrees). | No | Device/Asset Not Currently Installed | Data will be procured consistent. Once inswith requirements if installed | stalled | No |
| | 16 AssetLongitude | Asset Longitude | float | | Longitude coordinate of asset (in decimal degrees). | No | Device/Asset Not Currently Installed | Data will be procured consistent Once ins with requirements if installed | stalled | No |
| Point Column | Connection Device Field Name | Alias | Data Type | Characteristic | | Data provided in | Availability Explanations | Data procurement actions Estimate | ted delivery | Confidential? |
| | | | | | Description | latest submission? (Yes/ No) | | timefrar | | (Yes/No) |
| | 1 AssetID | Asset ID | text(50) | PK | Unique ID for a specific connection device. It should be a traceable stable ID within the utility's operations/processes. Primary key for the Connection | No | Data does not exist – inventory required | | after data on and translation | No |
| | 2 UtilityID | Utility ID | text(10) | | Device table. | No | Data does not exist – inventory required | consistent with data (1 year a requirements would be required extraction following completion of data work contacts and the second seco | after data on and translation | No |
| | 3 AssetType | Asset Type | text(50) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data does not exist – inventory | | | No |
| | | | | | Type of point asset. Required value: Line connection device | | required | consistent with data (1 year a requirements would be required extractic following completion of data translation and extraction process | | |
| | 4 AssetOHUG | Asset OH or UG | text(30) | Domain | Is the asset overhead or underground? Possible values: Overhead Underground | No | Data does not exist – inventory required | | after data on and translation | No |
| | 5 ConnectionDeviceType | Connection Device Type | text(30) | Domain | Unknown What type of connection device is the asset? Possible values: Splice Connector Clamp Other—See comment. | No | Data does not exist – inventory required | consistent with data (1 year a requirements would be required extraction following completion of data work contranslation and extraction | after data on and translation | No |
| | 6 ConnectionDeviceTypeComment | Connection Device Type Comment | text(30) | | Unknown | No | Data does not exist – inventory required | process Physical inventory of system consistent with data (1 year a requirements would be required extractic following completion of data work con | after data ion and translation | No |
| | 7 ConnectionDeviceSubtype | Connection Device Subtype | text(30) | Domain | Connection device type not listed in the options above. What is the specific subtype of the connection device? Automatic Splice Crimp Splice Explosive Sleeve Splice (i.e. permanent, fused) 3-bolt Parallel Groove | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system ~2 years | after data on and translation | No |
| | | | | | Unknown Other – See comment. | | | | | |
| | 8 ConnectionDeviceSubtypeCommen | t Connection Device Subtype Commen | t text(30) | | Connection device subtype not listed in the options | No | Data does not exist – inventory required | | after data on and translation | No |
| | 9 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | above. Nominal voltage (in kilovolts) associated with asset. Do | No | Data does not exist – inventory required | consistent with data (1 year a requirements would be required extraction following completion of data work control work control to the contro | after data on and translation | Yes |
| | 10 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | not use more than two decimal places. Enter "-99" if N/A. | No | Data does not exist – inventory required | consistent with data (1 year a requirements would be required extraction | after data on and translation | Yes |
| | | | | | Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. | | | following completion of data work con translation and extraction process | | |
| | 11 FromStructureID | From Structure ID | text(50) | FK | ID of the structure upstream of the span of line containing a connection device. This structure may be a support structure (e.g., pole or tower) if the span is overhead, and it may be something else (e.g., manhole, vault, etc.) if the span is underground. Foreign key to the | No | Data does not exist – inventory required | consistent with data (1 year a requirements would be required extraction following completion of data work contranslation and extraction | after data on and translation | Yes |
| | 12 ToStructureID | To Structure ID | text(50) | FK | Support Structure table. If of the structure upstream of the span of line containing a connection device. This structure may be a support structure (e.g., pole or tower) if the span is overhead, and it may be something else (e.g., manhole, vault, etc.) if the span is underground. Foreign key to the | No | Data does not exist – inventory required | | after data on and translation | Yes |
| | 13 CircuitID | Circuit ID | text(50) | FK | Support Structure table. | No | Data does not exist – inventory required | consistent with data (1 year a | after data | Yes |
| | | | | | ID of circuit associated with asset. This will be a unique standardized identification name of the circuit. Foreign | | | requirements would be required extraction following completion of data work contranslation and extraction | | |
| | 14 CircuitName | Circuit Name | text(255) | | key to all the related asset line tables. | No | Data does not exist – inventory required | | after data on and translation | Yes |
| | 15 SubstationID | Substation ID | text(50) | FK | P ID of substation associated with asset. Foreign key to the | No | Data does not exist – inventory required | | after data ion and translation | Yes |
| | 16 SubstationName | Substation Name | text(50) | | Substation table. | No | Data does not exist – inventory required | process Physical inventory of system consistent with data requirements would be required extractic following completion of data work cor | after data on and translation | Yes |
| | 17 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of substation associated with asset. | No | Data does not exist – inventory required | | after data ion and translation | Yes |
| | 18 ModelNumber | Model Number | text(30) | | What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system ~2 years | s to implement after data on and translation | Yes |
| | 19 HFTDClass | HFTD Class | text(10) | Domain | Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC light-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system 22 years consistent with data (1 year a requirements would be required extractic following completion of data work cor | s to implement after data on and translation | No |
| | | | | | Zone 1 Non-HFTD | | | translation and extraction process | | |

| | 20 County | County | text(50) | | | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required following completion of data | ~2 years to implement (1 year after data extraction and translation work complete) | No |
|-----------------|--------------------------------|---------------------------------|-----------|----------------|---|---|--|--|---|---------------------------|
| | 21 LastInspectionDate | Last Inspection Date | date | | County in which asset is located. | No | Data does not exist – inventory required | | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 22 InstallationDate | Installation Date | date | | Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be required following completion of data | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 23 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be required following completion of data | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 24 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "99" if unknown. The age of the asset in years. Only fill this out if the "installationYear" and "installationDate" values are unknown. Possible values: 0-9 10-19 20-29 30-39 40-49 50-50-9 | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be required following completion of data translation and extraction process | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | | | | | 60-69 70-79 80-89 90-99 >100 Unknown N/A (only enter this if there is an "InstallationYear" | | | | | |
| | 25 UsefulLifespan | Useful Lifespan | Integer | | The number of years an asset is expected to have a useful functioning existence upon initial installation. Use- | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required following completion of data translation and extraction | ~2 years to implement (1 year after data I extraction and translation work complete) | Yes |
| | 26 ExemptionStatus | Exemption Status | text(10) | Domain | 99 for unknown, is the asset exempt per California Public Resources Code (PRC) 4292; PRC 4292 requires clearance around support structures on which certain equipment is mounted in certain areas. Possible values: Yes No | No | Data does not exist – inventory required | process Physical inventory of system consistent with data requirements would be required | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 27 AssetLatitude | Asset Latitude | float | | Unknown N/A | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required following completion of data | ~2 years to implement (1 year after data extraction and translation work complete) | No |
| | 28 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be required | ~2 years to implement (1 year after data | No |
| Point | Customer Meter | | | | Longitude coordinate of asset (in decimal degrees). | | | process | | |
| Column | Field Name | Alias | Data Type | Characteristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 MeterID | Meter ID | text(50) | PK | Unique ID for a specific meter. It should be a traceable stable ID within the utility's operations/processes. Primary key for the Customer Meter table. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 3 AssetType | Asset Type | text(30) | | Type of point asset. Required value: Customer meter | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 4 CircuitID | Circuit ID | text(50) | FK | ID of circuit associated with asset. This will be a unique standardized identification name of the circuit. Foreign key to all the related asset line tables. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 5 CircuitName | Circuit Name | text(255) | | Name of circuit associated with asset. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 SubstationID | Substation ID | text(50) | FK | ID of substation associated with asset. Foreign key to the | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 SubstationName | Substation Name | text(30) | | Substation table. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of substation associated with asset. What is the make and manufacturer of the asset? Enter | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 9 ModelNumber | Model Number | text(30) | | "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 10 HFTDClass | HFTD Class | text(10) | Domain | cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 11 County | County | text(50) | | Non-HFTD | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 12 InstallationDate | Installation Date | date | | County in which asset is located. Date the asset was installed. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 13 InstallationYear | Installation Year | integer | | Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 14 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the "InstallationPaer" and "InstallationDate" values are unknown. Possible values: 0.4 | No | Data exists but not in GIS format | extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | 10-19 20-29 30-39 40-49 50-59 60-69 | | | | | |
| | | | | | 70-79 80-89 90-99 >100 Unknown | | | | | |
| | 15 AssetLatitude | Asset Latitude | float | | N/A (only enter this if there is an "InstallationYear" value) | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 16 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Longitude coordinate of asset (in decimal degrees). | | | extraction process | (Prepared for 2022 WMP) | |
| Point Column | Fuse Field Name | Alias | Data Type | Characteristic | | Data provided in | Availability Explanations | Data procurement actions | Estimated delivery | Confidential? |
| | 1 AssetID | Asset ID | text(50) | PK | | latest submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and | *1 year to implement | (Yes/No) No |
| | 2 UtilityID | Utility ID | text(10) | | Primary key for the Fuse table. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | No |
| | 3 AssetOHUG | Asset OH or UG | text(30) | Domain | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | No |
| | | | | | Is the asset overhead or underground? Possible values: Overhead Underground | | | extraction process | (Prepared for 2022 WMP) | |
| | 4 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Unknown Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 5 AssociatedOperatingVoltagekV | AssociatedOperatingVoltage (kV) | float | | N/A. Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 SubstationID | Substation ID | text(50) | FK | $\mbox{N/A}.$ ID of substation associated with asset. Foreign Key to the | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 SubstationName | Substation Name | text(50) | | Substation table. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 CircuitID | Circuit ID | text(50) | FK | Name of substation associated with asset. ID of circuit associated with asset. This will be a unique standardized identification name of the circuit. Foreign | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 9 CircuitName | Circuit Name | text(255) | | key to all the related asset line tables. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 10 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of circuit associated with asset. What is the make and manufacturer of the asset? Enter | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 11 ModelNumber | Model Number | text(30) | | What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Model number of the asset. Enter "Unknown" if this cannot be determined. | | | extraction process | (Prepared for 2022 WMP) | |

| | 12 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
|--------|--------------------------------|-----------------------------------|-----------|----------------|---|---|--|---|---|---------------------------|
| | 13 County | County | text(50) | | Zone 1 Non-HFTD | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | No |
| | | | | | County in which asset is located. | | | extraction process | (Prepared for 2022 WMP) | |
| | 14 LastInspectionDate | Last Inspection Date | date | | Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and extraction process | (Prepared for 2022 WMP) | Yes |
| | 15 LastMaintenanceDate | Last Maintenance Date | date | | Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 16 InstallationDate | Installation Date | date | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 17 InstallationYear | Installation Year | integer | | Year of asset installation. Use four digits. Enter "-99" if unknown. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 18 EstimatedAge | Estimated Age | text(10) | Domain | The age of the asset in years. Only fill this out if the "InstallationYear" and "InstallationDate" values are unknown Possible values: | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | unknown. rossine values: 10-19 10-19 10-19 30-39 30-39 30-39 50-9 50-9 70-79 80-89 90-99 >100 Unknown N/A (only enter this if there is an "installationYear" value) | | | | | |
| | 19 UsefulLifespan | Useful Lifespan | integer | | The number of years an asset is expected to have a useful functioning existence upon initial installation. Use - 99 for unknown. | No . | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 20 ExemptionStatus | Exemption Status | text(10) | Domain | Is the asset exempt per California Public Resources Code (PRC) 42922 PRC 4292 requires clearance around support structures on which certain equipment is mounted in certain areas. Possible values: Yes No Unknown | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 21 FuseRating | Fuse Rating (A) | float | | N/A | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 22 AssetType | Asset Type | text(30) | Domain | The nominal current rating of the fuse in amperes. Type of fuse device. Possible values: Bridged | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Current limiting Expulsion Fused elibow Unknown Other – See comment. | | | | | |
| | 23 AssetTypeComment | Asset Type Comment | text(50) | | Fuse asset type not listed in the options above. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 24 AssetSubtype | Asset Subtype | text(30) | | | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 25 AssetLatitude | Asset Latitude | float | | What is the specific subtype of the fuse device? | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 26 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| Point | Lightning Arrestor | | | | Longitude coordinate of asset (in decimal degrees). | | | | | |
| Column | Field Name | Alias | Data Type | Characteristic | | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 AssetID | Asset ID | text(50) | PK | Unique ID for a specific lightning arrestor. It should be a traceable stable ID within the utility's operations/processes. Primary key for the Lighting | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 2 UtilityID | Utility ID | text(10) | | Arrestor table. Standardized identification name of the utility | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 3 AssetType | Asset Type | text(30) | | ("UtilityG&E," etc.). | No | Data exists but not in GIS format | Requires data translation and extraction process | | No |
| | 4 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Type of point asset. Required value: Lightning arrestor Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and extraction process | | Yes |
| | 5 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | N/A. Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 SupportStructureID | Support Structure ID | text(50) | | N/A. Unique ID for support structure to which a lightning | No | Data exists but not in GIS format | extraction process Requires data translation and | ~1 year to implement | Yes |
| | 7 SubstationID | Substation ID | text(50) | | arrestor is attached. It should be a traceable stable ID within the utility's operations/processes. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 8 SubstationName | Substation Name | text(50) | FK | ID of substation associated with asset. Foreign Key to the Substation table. | No | Data exists but not in GIS format | extraction process Requires data translation and | | Yes |
| | 9 CircuitID | Circuit ID | text(50) | FK | Name of substation associated with asset. ID of circuit associated with asset. This will be a unique | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 10 CircuitName | Circuit Name | text(255) | | standardized identification name of the circuit. Foreign key to all the related asset line tables. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 11 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of circuit associated with asset. | No | | extraction process Physical inventory of system consistent with data | (Prepared for 2022 WMP) ~2 years to implement | Yes |
| | 12 ModelNumber | Model Number | text(30) | | What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. | No | Data does not exist – inventory required | requirements would be required following completion of data translation and extraction process Physical inventory of system | | Yes |
| | | | , | | | | Data does not exist – inventory required | consistent with data requirements would be require following completion of data | ~2 years to implement d (1 year after data extraction and translation | |
| | 13 HFTDClass | HFTD Class | | Domain | Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset | No | Data exists but not in GIS format | translation and extraction process Requires data translation and | work complete) | |
| | 13 HFIDCIASS | HFID Class | text(10) | Domain | intersects. Possible values: Tier 2 Zone 1 | No | Data exists but not in GIS format | extraction process | (Prepared for 2022 WMP) | No |
| | 14 County | County | text(50) | | Non-HFTD | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 15 LastinspectionDate | Last Inspection Date | date | | County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 16 LastMaintenanceDate | Last Maintenance Date | date | | Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and extraction process | | Yes |
| | 17 InstallationDate | Installation Date | date | | Leave blank if unknown. Do not include time. | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be require following completion of data | ~2 years to implement (1 year after data | Yes |
| | 18 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be required following completion of data | (1 year after data | Yes |
| | 19 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter ".99" if unknown. The age of the asset in years. Only fill this out if the "InstallationYear" and "InstallationDate" values are unknown. Possible values: | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with data requirements would be require | ~2 years to implement (1 year after data | Yes |
| | | | | | 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 90-99 3-100 Unknown N/A (only enter this if there is an "installationYear" | | | requirements would be require following completion of data translation and extraction process | a extraction and translation work complete) | |
| | 20 UsefulLifespan | Useful Lifespan | integer | | value) | No | Data does not exist – inventory required | Physical inventory of system consistent with data | (1 year after data | Yes |
| | | | | | The number of years an asset is expected to have a useful functioning existence upon initial installation. Use - | | | requirements would be required following completion of data translation and extraction | d extraction and translation work complete) | |
| | 21 ExemptionStatus | Exemption Status | text(10) | Domain | 99 for unknown. Is the asset exempt per California Public Resources Code (PRC) 4292? PRC 4292 requires clearance around support structures on which certain equipment is mounted in | No | Data does not exist – inventory required | process Physical inventory of system consistent with data requirements would be required. | (1 year after data d extraction and translation | Yes |
| | | | | | certain areas. Possible values: Yes No Unknown N/A | | | following completion of data translation and extraction process | work complete) | |
| | | | | | | | | | | |

| | 22 ArrestorRating | Arrestor Rating (kV) | float | | Rating of the lightning arrestor in kilovolts. | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required following completion of data translation and extraction process | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
|-----------------|---|--|-----------|----------------|---|---|---|--|---|---------------------------|
| | 23 AssetLatitude | Asset Latitude | float | | Latitude coordinate of asset (in decimal degrees). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 24 AssetLongitude | AssetLongitude | float | | Longitude coordinate of asset (in decimal degrees). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| Point | Substation Field Name | Aller | | Characteristic | , | Date and dad to | Availability Fundamentary | Data and a state of the state o | Estimated delivery | Confidential? |
| Column | | Alias | | | | latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | timeframe | (Yes/No) |
| | 1 SubstationID | Substation ID | text(50) | PK | ID of substation associated with asset. Primary key for the Substation table. | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 3 AssetType | Asset Type | text(30) | | | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 4 SubstationName | | text(50) | | Type of point asset. Required value: Substation | Yes | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 5 SubstationNominalVoltagekV | Substation Name Substation Nominal Voltage (kV) | float | | Name of substation. Nominal voltage (in kilovolts) ratings associated with the | No | Data exists but not in GIS format | taxonomy Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | substation. Include all applicable voltages separated by siashes (e.g., "230/139/69/12"). Enter "-99" if N/A. Operating voltage (in kilovolts) ratings associated with the substation. Include all applicable voltages separated by slashes (e.g., "230/139/69/12"). Enter "-99" if N/A. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 SubstationRating | Substation Rating | float | | Power rating of the substation in mega volt amps (MVAs). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 SubstationType | Substation Type | text(10) | Domain | Type of substation. Possible values: Network | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 9 HFTDClass | HFTD Class | text(10) | Domain | Loop Radial The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 Non-HFTD | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | Yes |
| | 10 County | County | text(50) | | | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | Yes |
| | 11 LastinspectionDate | Last Inspection Date | date | | County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | taxonomy Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 12 InstallationDate | Installation Date | date | | Leave blank if unknown. Do not include time. Date the asset was installed. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 13 InstallationYear | Installation Year | integer | | Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 14 AssetLatitude | Asset Latitude | float | | Year of asset installation. Use four digits. Enter "-99" if unknown. | Yes | Data Currently Available in GIS | extraction process Data will still require translation | (Prepared for 2022 WMP) 2021 WMP | No |
| | 15 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | Yes | format Data Currently Available in GIS | to new WMP specific data taxonomy Data will still require translation | | No |
| | | | | | Longitude coordinate of asset (in decimal degrees). | | format | to new WMP specific data taxonomy | - ***** | - |
| Point Column | Support Structure Field Name | Alias | Data Type | Characteristic | | | Availability Explanations | Data procurement actions | Estimated delivery | Confidential? |
| | 1 SupportStructureID | Support Structure ID | text(50) | PK | | latest submission? (Yes/ No) Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | timeframe 2021 WMP | (Yes/No) No |
| | 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 3 AssetType | Asset Type | text(30) | | Type of point asset. Required value: Support structure | Yes | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 4 SubstationID | Substation ID | text(50) | FK | ID of substation associated with asset. Foreign Key to the Substation table. | No | Data exists but not in GIS format | taxonomy Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 5 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 6 County | County | text(50) | | Non-HFTD | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 7 LastInspectionDate | Last Inspection Date | date | | County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | taxonomy Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 LastMaintenanceDate | Last Maintenance Date | date | | Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 9 LastIntrusiveDate | Last Intrusive Date | date | | Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 10 InstallationDate | Installation Date | date | | Date of the last intrusive. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 11 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 12 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the | No | Data exists but not in GIS format | extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | |
| | | | | | "InstallationYear" and "InstallationDate" values are unknown. Possible values: 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 >100 Unknown N/A (only enter this if there is an "InstallationYear" value) | | | extraction process | (Prepared for 2022 WMP) | |
| | 13 UsefulLifespan | Useful Lifespan | integer | | The number of years an asset is expected to have a useful functioning existence upon initial installation. Use 99 for unknown. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 14 SupportStructureType | Support Structure Type | text(30) | Domain | Type of support structure. Possible values: Pole | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 15 SupportStructureTypeComment | Support Structure Type Comment | text(30) | | Tower Other – See comment. Support structure type analogous to a pole or tower and not listed in the options above. Note: Crossarms are support structures for which the WSD is requesting data, but they are addressed in a separate field at the end of | No | Data exists but not in GIS format | taxonomy Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 16 SupportStructureMaterial | Support Structure Material | text(30) | Domain | this able and involve related tables. Material from which pole, tower, or crossarm is made. Possible values: Wood Metal Composite | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Wrapped wood Concrete Other – See comment. | | | | | |
| | 17 SupportStructureMaterialComment | Support Structure Material Comment | text(30) | | Support structure material not listed in the options above. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 18 SupportStructureMaterialSubtype | Support Structure Material Subtype | text(30) | | The subtype of structure material. For example, if a wood pole, the type of wood (i.e. Douglas Fir, Cedar, etc.). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 19 Underbuild | Underbuild | text(3) | Domain | Does the line support multiple transmission or primary distribution circuits? Possible values: Yes | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 20 ConstructionGrade | Construction Grade | text(10) | Domain | Yes No Grade of construction, in accordance with GO 95, Rule 42. Possible Values: Grade A Grade B Grade C | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 21 CrossarmAttached | Crossarm Attached | text(10) | Domain | Is one or more crossarms attached to the support structure? Possible values: Yes No Unknown | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required following completion of data translation and extraction process | (1 year after data | No 1 |
| | 22 AssetLatitude | Asset Latitude | float | | | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 23 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | Yes | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data | 2021 WMP | No |
| Table Column | Support Structure Crossarm Detail Field Name | Alias | Data Type | Characteristic | | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |

| | 1 AssetID | Asset ID | text(50) | PK | Unique ID for a specific support structure crossarm. It | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data straction and translation | No |
|-----------------|--------------------------------|-----------------------------------|-----------|----------------|---|--|--|---|---|----------------|
| | 2 SupportStructureID | Support Structure ID | text(50) | FK | should be a traceable stable ID within the utility's operations/processes. Primary key for the Support Structure Crossarm Detail table. | No | Data does not exist – inventory | translation and extraction process Physical inventory of system ~2 | | No |
| | | | | | Unique ID for specific support structure. It should be a traceable stable ID within the utility's operations/processes. Foreign key enabling connection | | required | requirements would be required ex | year after data straction and translation ork complete) | |
| | 3 UtilityID | Utility ID | text(10) | | to the "Support Structures" feature class. | No | Data does not exist – inventory required | Physical inventory of system ~2 consistent with data (1 requirements would be required ex following completion of data wo | year after data | No |
| | 4 AssetType | Asset Type | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex following completion of data wo | year after data | No |
| | 5 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Type of point asset. Required value: Crossarm Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | | Lyear to implement repared for 2022 WMP) | Yes |
| | 6 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | N/A. Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and ~1 | | Yes |
| | 7 CircuitID | Circuit ID | text(50) | FK | N/A. ID of circuit associated with asset. This will be a unique standardized identification name of the circuit. Foreign | No | Data exists but not in GIS format | | Lyear to implement repared for 2022 WMP) | Yes |
| | 8 CircuitName | Circuit Name | text(255) | | key to all the related asset line tables. | No | Data exists but not in GIS format | | Lyear to implement repared for 2022 WMP) | Yes |
| | 9 LastinspectionDate | Last Inspection Date | date | | Name of circuit associated with asset. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | | L year to implement repared for 2022 WMP) | Yes |
| | 10 LastMaintenanceDate | Last Maintenance Date | date | | Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | | L year to implement repared for 2022 WMP) | Yes |
| | 11 InstallationDate | Installation Date | date | | | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 12 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 13 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the | No | Data does not exist – inventory | translation and extraction process | | Yes |
| | | • | | | "InstallationYear" and "InstallationDate" values are unknown. Possible values: 0-9 10-19 20-29 30-39 40-49 50-59 60-68 70-79 80-89 90-99 | | required | consistent with data (1 requirements would be required ex | year after data | |
| | | | | | Unknown N/A (only enter this if there is an "InstallationYear" value) | No | Date described in section | Observation of makes 200 | | V |
| | 14 UsefulLifespan | Useful Lifespan | integer | | The number of years an asset is expected to have a useful functioning existence upon initial installation. Use | No - | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 15 CrossarmConfiguration | Crossarm Configuration | text(30) | Domain | 99 for unknown. Configuration of crossarm. Possible values: Single Arm Double Arm | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex following completion of data wo translation and extraction | year after data | No |
| | 16 CrossarmLength | Crossarm Length (inches) | float | | Alley Arm | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex following completion of data wo | year after data | Yes |
| | 17 CrossarmWidth | Crossarm Width (inches) | float | | Length of crossarm in inches. | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 18 CrossarmHeight | Crossarm Height (inches) | float | | Width of crossarm in inches. | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 19 CrossarmMaterial | Crossarm Material | text(30) | Domain | Height of crossarm in inches. Material from which pole, tower, or crossarm is made. Possible values: Wood Metal Composite | No | Data exists but not in GIS format | | Lyear to implement repared for 2022 WMP) | Yes |
| | 20 CrossarmMaterialComment | Crossarm Material Comment | text(30) | | Other – See comment. | No | Data does not exist – inventory required | consistent with data (1 requirements would be required ex | year after data | Yes |
| | 21 CrossarmMaterialSubtype | Crossarm Material Subtype | text(30) | | Crossarm material not listed in the options above. The subtype of structure material. For example, if a | No | Data does not exist – inventory required | process Physical inventory of system consistent with data requirements would be required ex following completion of data wo | year after data | Yes |
| | 22 BraceType | Brace Type | text(30) | Domain | wood pole, the type of wood (i.e. Douglas Fir, Cedar, etc.). The type of brace supporting the crossarm. Possible values: | No | Data exists but not in GIS format | translation and extraction process Requires data translation and ~1 extraction process (Pi | L year to implement repared for 2022 WMP) | Yes |
| | 23 BraceTypeComment | Brace Type Comment | text(30) | | V brace Flat brace Other – See comment. | No | Data does not exist – inventory | | | Yes |
| | 25 State Cype Comment | Side type connects | text(30) | | Brace type not listed in the options above. | | required | consistent with data (1 requirements would be required ex | year after data | |
| | 24 CrossarmOrientation | Crossarm Orientation | text(10) | Domain | Orientation of crossarm. Possible values: | No | Data does not exist – inventory required | Physical inventory of system "2 consistent with data (1 requirements would be required ex following completion of data wo | year after data | Yes |
| | 25 Balance | Balance | text(30) | Domain | Buck | No | Data does not exist – inventory required | | years to implement | Yes |
| | | | | | Balancing status of crossarm. Possible values: Balanced Unbalanced (i.e., end of line) | | | requirements would be required ex following completion of data wo translation and extraction process | ttraction and translation ork complete) | |
| Point Column | Switchgear Field Name | Alias | Data Type | Characteristic | | | Availability Explanations | | | Confidential? |
| | 1 AssetID | Asset ID | text(50) | PK | Description Unique ID for a specific switchgear asset. It should be a traceable stable ID within the utility's | latest submission? (Yes/ No) Yes | Data Currently Available in GIS | Data will still require translation 20 | | (Yes/No) No |
| | 2 UtilityID | Utility ID | text(10) | | traceable stable ID within the utility's operations/processes. Primary key for the Switchgear table. | Yes | format Data Currently Available in GIS | to new WMP specific data taxonomy Data will still require translation 20 | 021 WMP | No |
| | 3 AssetType | Asset Type | text(30) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes | format Data Currently Available in GIS | to new WMP specific data taxonomy Data will still require translation 20 | | No |
| | 4 AssetOHUG | Asset OH or UG | text(30) | Domain | Type of point asset. Required value: Switchgear Is the asset overhead or underground? Possible values: Overhead | Yes | format Data Currently Available in GIS format | to new WMP specific data taxonomy Data will still require translation 20 to new WMP specific data taxonomy | | No |
| | 5 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Underground Unknown Nominal voltage (in kilovolts) associated with asset. Do | No | Data exists but not in GIS format | Requires data translation and ~1 | | Yes |
| | 6 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | not use more than two decimal places. Enter "-99" if N/A. Operating voltage (in kilovolts) associated with asset. Do | No | Data exists but not in GIS format | Requires data translation and ~1 | | Yes |
| | 7 SupportStructureID | Support Structure ID | text(50) | FK | not use more than two decimal places. Enter "-99" if N/A . Unique ID for support structure to which a switchgear asset is attached. It should be a traceable stable ID within | No n | Data exists but not in GIS format | Requires data translation and ~1 | repared for 2022 WMP) Lyear to implement repared for 2022 WMP) | Yes |
| | 8 SubstationID | Substation ID | text(50) | FK | the utility's operations/processes. Foreign key to the Support Structure table. | No | Data exists but not in GIS format | Requires data translation and ~1 | L year to implement | Yes |
| | 9 SubstationName | Substation Name | text(50) | | ID of substation associated with asset. Foreign Key to the Substation table. | No No | Data exists but not in GIS format | extraction process (Pi Requires data translation and ~1 | repared for 2022 WMP) Lyear to implement | Yes |
| | | | | | Name of substation associated with asset. | | | extraction process (Pi | repared for 2022 WMP) | |

| | 10 CircuitID | Circuit ID | text(50) | FK | ID of circuit associated with asset. This will be a unique standardized identification name of the circuit. Foreign | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | Yes |
|-----------------|----------------------------------|------------------------------|-----------|----------------|--|--|--|--|---|----------------|
| | 11 CircuitName | Circuit Name | text(255) | | key to all the related asset line tables. | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 12 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of circuit associated with asset. What is the make and manufacturer of the asset? Enter | No | Data does not exist – inventory required | consistent with data requirements would be required | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 13 ModelNumber | Model Number | text(30) | | "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this | No | Data does not exist – inventory required | process Physical inventory of system consistent with data requirements would be required | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 14 HFTDClass | HFTD Class | text(10) | Domain | cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 | No | Data exists but not in GIS format | process Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 15 County | County | text(50) | | Non-HFTD | No | Data exists but not in GIS format | | ~1 year to implement | No |
| | 16 LastInspectionDate | Last Inspection Date | date | | County in which asset is located. | No | Data exists but not in GIS format | Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 17 LastMaintenanceDate | Last Maintenance Date | date | | Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 18 InstallationDate | Installation Date | date | | Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | extraction process | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | | | extraction process | (Prepared for 2022 WMP) | |
| | 19 InstallationYear | Installation Year | integer | | Year of asset installation. Use four digits. Enter "-99" if unknown. | No | Data exists but not in GIS format | extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 20 EstimatedAge | Estimated Age | text(10) | | The age of the asset in years. Only fill this out if the "Installation" and "Installation Date" values are unknown. Possible values: 0-9 10-19 20-29 30-39 40-49 50-59 60-69 70-79 80-89 90-99 1100 Unknown | No. | Data exists but not in GIS format | | "1 year to implement (Prepared for 2022 WMP) | Yes |
| | 21 UsefulLifespan | Useful Lifespan | integer | | N/A (only enter this if there is an "installationYear" value) The number of years an asset is expected to have a | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 22 ExemptionStatus | Exemption Status | text(10) | Domain | useful functioning existence upon initial installation. Use 99 for unknown. Is the asset exempt per California Public Resources Code | No | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 22 Exemplooristatus | Exemption status | text(10) | | (PRC) 4292? PRC 4292 requires clearance around support structures on which certain equipment is mounted in certain areas. Possible values: Yes No Unknown | | Deta exists but not in dis ionnat | | (Prepared for 2022 WMP) | ies |
| | 23 CurrentRating | Current Rating (A) | float | | N/A | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 24 AssetClass | Asset Class | text(30) | Domain | Nominal current rating of the switchgear in amperes. Is the asset associated with transmission or distribution? Possible values: Distribution | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would be required | ~2 years to implement (1 year after data | Yes |
| | 25 SCADAEnabled | SCADA Enabled | text(3) | Domain | Transmission Can supervisory control and data acquisition (SCADA) be utilized with the asset? Possible values: Yes No | No | Data exists but not in GIS format | process Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 26 SwitchgearType | Switchgear Type | text(30) | | N/A Type of switchgear (switch, cut-out fuse, circuit breaker, | No | Data does not exist – inventory required | consistent with data requirements would be required | (1 year after data | No |
| | 27 SwitchgearSubtype | Switchgear Subtype | text(30) | | etc.) | No | Data does not exist – inventory required | consistent with data requirements would be required following completion of data translation and extraction | (1 year after data | No |
| | 28 SwitchgearInsulatingMedium | Switchgear Insulating Medium | text(30) | | Specific type of switch, cut-out fuse, circuit breaker, etc. Medium (air, gas, oil, etc.) providing insulation for | No | Data does not exist – inventory required | consistent with data requirements would be required following completion of data translation and extraction | (1 year after data | Yes |
| | 29 AssetLatitude | Asset Latitude | float | | switchgear asset. Be specific. | Yes | Data Currently Available in GIS format | process Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 30 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). Longitude coordinate of asset (in decimal degrees). | Yes | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| Point Column | Transformer Field Name | Alias | Data Type | Characteristic | | Data provided in | Availability Explanations | | Estimated delivery | Confidential? |
| | 1 TransformerID | Transformer ID | text(50) | PK | | latest submission? (Yes/ No) Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | timeframe 2021 WMP | (Yes/No) No |
| | 2 UtilityID | Utility ID | text(10) | | operations/processes. Primary key enabling connection to the "Transformer Detail" table. | Yes | Data Currently Available in GIS | taxonomy Data will still require translation | 2021 WAAD | No |
| | 3 SupportStructureID | Support Structure ID | text(50) | FK | Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID for support structure to which transformer is | Yes | format Data Currently Available in GIS | to new WMP specific data taxonomy Data will still require translation | | No |
| | | | | | attached. It should be a traceable stable ID within the utility's operations/processes. Foreign key to the Support Structure table. | | format | to new WMP specific data taxonomy | | |
| | 4 AssetType | Asset Type | text(30) | | Type of point asset. Required value: Transformer | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| | 5 AssetOHUG | Asset OH or UG | text(30) | | Is the asset overhead or underground? Possible values: Overhead Underground | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 6 HFTDClass | HFTD Class | text(10) | | Unknown The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tiler 3 Tiler 2 Zone 1 Non-HFTD | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 7 County | County | text(50) | | | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | No |
| | 8 InaBank | Ina Bank | text(30) | Domain | County in which asset is located. Does a single point represent multiple assets that exist in a bank arrangement (i.e., transformer bank)? Possible values: Yes (if multiple transformers are represented by a single point, use additional related tables as needed) No Unknown | No | Data does not exist – inventory required | consistent with data requirements would be required | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | 9 QuantityinBank | Quantity in Bank | integer | | N/A | No | Data does not exist – inventory required | consistent with data requirements would be required | (1 year after data | Yes |
| | 10 AssetLatitude | Asset Latitude | float | | How many transformers exist in a bank arrangement (if applicable)? Enter "-99" if unknown. | Yes | Data Currently Available in GIS | translation and extraction process Data will still require translation | 2021 WMP | No |
| | 11 AssetLongitude | Asset Longitude | float | | Latitude coordinate of asset (in decimal degrees). | Yes | format Data Currently Available in GIS | to new WMP specific data taxonomy Data will still require translation | | No |
| | ···· | B | - | | Longitude coordinate of asset (in decimal degrees). | | format Available in GIS | to new WMP specific data taxonomy | | |
| Table Column | Transformer Detail Field Name | Alias | Data Type | Characteristic | | | Availability Explanations | | Estimated delivery | Confidential? |
| | 1 AssetID | Asset ID | text(50) | | Description Unique ID for a specific switchgear asset. It should be a traceable stable ID within the utility's | latest submission? (Yes/ No) Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | timeframe 2021 WMP | (Yes/No) No |
| | 2 TransformerID | Transformer ID | text(50) | FK | operations/processes. Primary key for the Transformer Detail table. Unique ID for a specific transformer. It should be a | Yes | Data Currently Available in GIS | taxonomy Data will still require translation | 2021 WMP | No |
| | | | | | traceable stable ID within the utility's operations/processes. Foreign key enabling connection to the "Transformer" feature class. | | format | to new WMP specific data taxonomy | | |
| | 3 TransformerSubtype | TransformerSubtype | text(100) | Domain | Specific subtype of the transformer. Possible values: Single phase paid-mounted Single phase subsurface Single phase overhead Three phase pad-mounted Three phase subsurface Three phase voerhead | No | Data does not exist – inventory required | consistent with data requirements would be required | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |

| | 4 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | | No | Data exists but not in GIS format | | ~1 year to implement | Yes |
|-----------------|--|--|--|-------------------|--|---|--|--|--|---|
| | 5 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | No | Data exists but not in GIS format | Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 SubstationID | Substation ID | text(50) | FK | N/A. ID of substation associated with asset. Foreign Key to the | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 7 SubstationName | Substation Name | text(50) | | Substation table. | No | Data exists but not in GIS format | Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 8 CircuitID | Circuit ID | text(50) | FK | Name of substation associated with asset. ID of circuit associated with asset. This will be a unique | No | Data exists but not in GIS format | Requires data translation and | | Yes |
| | 9 CircuitName | Circuit Name | text(255) | | standardized identification name of the circuit. Foreign key to all the related asset line tables. | No | Data exists but not in GIS format | Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 10 MakeandManufacturer | Make and Manufacturer | text(50) | | Name of circuit associated with asset. | No | Data does not exist – inventory | Physical inventory of system | (Prepared for 2022 WMP) ~2 years to implement | Yes |
| | | | | | $\label{eq:what} What is the \textit{make} \ \text{and} \ \text{manufacturer} \ \text{of the asset?} \ \text{Enter}$ | | required | consistent with data requirements would be required following completion of data translation and extraction | (1 year after data | |
| | 11 ModelNumber | Model Number | text(30) | | "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this | No | Data does not exist – inventory required | consistent with data requirements would be required | (1 year after data | Yes |
| | 12 LastInspectionDate | Last Inspection Date | date | | cannot be determined. Date of the last inspection. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | process Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 13 LastMaintenanceDate | Last Maintenance Date | date | | Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. | No | Data exists but not in GIS format | Requires data translation and | ~1 year to implement | Yes |
| | 14 InstallationDate | Installation Date | date | | Leave blank if unknown. Do not include time. | No | Data does not exist – inventory | Physical inventory of system | | Yes |
| | | | | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | | required | requirements would be required | (1 year after data extraction and translation work complete) | |
| | 15 InstallationYear | Installation Year | integer | | Year of asset installation. Use four digits. Enter "-99" if | No | Data does not exist – inventory required | consistent with data requirements would be required | (1 year after data | Yes |
| | 16 EstimatedAge | Estimated Age | text(10) | Domain | unknown. The age of the asset in years. Only fill this out if the "Installation year" and "Installation Date" values are | No | Data does not exist – inventory required | process Physical inventory of system | ~2 years to implement (1 year after data | Yes |
| | | | | | unknown. Possible values: 0-9 10-19 | | required | requirements would be required | | |
| | | | | | 20-29 30-39 40-49 | | | process | | |
| | | | | | 50-59 60-69 | | | | | |
| | | | | | 70-79 80-89 90-99 | | | | | |
| | | | | | >100 Unknown N/A (only enter this if there is an "InstallationYear" | | | | | |
| | 17 UsefulLifespan | Useful Lifespan | integer | | value) The number of years an asset is expected to have a useful functioning existence upon initial installation. Use | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 18 ExemptionStatus | Exemption Status | text(30) | Domain | 99 for unknown. Is the asset exempt per California Public Resources Code (PRC) 4292? PRC 4292 requires clearance around support | No | Data does not exist – inventory required | | ~2 years to implement (1 year after data | Yes |
| | | | | | structures on which certain equipment is mounted in certain areas. Possible values: Yes No | | | requirements would be required | extraction and translation work complete) | |
| | 19 TransformerRating | Transformer Rating (kVAs) | float | | Unknown N/A | No | Data does not exist – inventory | Physical inventory of system | ~2 years to implement | Yes |
| | | | | | | 140 | | | | |
| | | , , | | | Nominal electrical load capacity in kilovolt amps (kVAs) | | required | consistent with data requirements would be required following completion of data translation and extraction | (1 year after data | |
| Point | Weather Station | | | Characteristic | Nominal electrical load capacity in kilovolt amps (kVAs). | | required | consistent with data requirements would be required following completion of data translation and extraction process | (1 year after data extraction and translation work complete) | Confidential? |
| Point Column | Field Name | Alias | Data Type | Characteristic | Description | | required Availability Explanations | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions | (1 year after data extraction and translation work complete) Estimated delivery timeframe | Confidential? (Yes/No) |
| | | | | Characteristic PK | | Data provided in latest submission? | required | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions | (1 year after data extraction and translation work complete) Estimated delivery timeframe | |
| | Field Name | Alias | Data Type | | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Thimmay key for the Weather Station or the control of the contro | Data provided in latest submission? | required Availability Explanations Data Currently Available in GIS | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP | (Yes/No) |
| | Field Name 1 StationID | Allas Station ID | Data Type text(50) | | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityGBE," etc.). | Data provided in latest submission? (Yes/ No) Yes | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID | Alias Station ID Utility ID | Data Type text(50) text(10) | | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter | Data provided in latest submission? (Yes/ NO) Yes | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType | Alias Station ID Utility ID Asset Type | Data Type text(50) text(10) text(30) | | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardised Identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this | Data provided in latest submission? (Yes/ No) Yes Yes | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Requires data translation and extraction process Requires data translation and | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No No No No No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer | Alias Station ID Utility ID Asset Type Make and Manufacturer | Data Type text(50) text(10) text(30) | | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 | Data provided in latest submission? (Yes/ No) Yes Yes Yes | Availability Explanations Data Currently Available in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Requires data translation and extraction process Requires data translation and | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) "1-year to implement (Prepared for 2022 WMP) | (Yes/No) No No No No No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number | Data Type text(50) text(10) text(30) text(30) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high Fire threat district (HFTD) area the asset intersects. Possible values: | Data provided in latest submission? (Yes/ No) Yes Yes Yes No No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Requires data translation and extraction process Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Data will still require translation to new WMP specific data | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) 2021 WMP | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class | Data Type text(50) text(10) text(30) text(30) text(30) text(10) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high Fire threat district (HFTD) area the asset intersects. Possible values: Ter 3 Ter 2 Zone 1 | Data provided in latest submission? (Yes/ No) Yes Yes Yes No No No | required Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format Data exists but not in GIS format Data Currently Available in GIS format | consistent with data required following completion of data translation and extraction process Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process Requires data translation and extraction process | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 20 | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass | Alias Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class | Data Type text(50) text(10) text(30) text(30) text(30) text(10) text(50) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 Non-HFTD | Data provided in latest submission? (Yes/No) Yes Yes No No No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data exponents of the specific data taxonomy. Data will still require translation to new WMP specific data extraction process Requires data translation and extraction process Data will still require translation to new WMP specific data taxonomy. Requires data translation and extraction process Requires data translation and extraction process. | (1 year fare data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) 2021 WMP "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate | Alias Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Last Maintenance Date | Data Type text(50) text(10) text(30) text(30) text(30) text(10) text(50) date date | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the meable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityoS&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Ter 3 Ter 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Use YYYY-MM-D-D format. | Data provided in latest submission? (Yes/No) Yes Yes No No No No No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy It is new the specific data taxonomy Requires data translation and extraction process | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 2021 WMP 2021 WMP 1-1 year to implement (Prepared for 2022 WMP) 2021 WMP 1-1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate | Alias Station ID Utility ID Asset Type Make and Manufacturer Model Number HETD Class County Last Inspection Date Last Maintenance Date Installation Date | Data Type text(50) text(10) text(30) text(30) text(30) text(10) date date date | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users to look up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if known. Do not include time. | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation and extraction process Requires data translation and extraction process | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) 2021 WMP "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate 11 InstallationDate | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Last Maintenance Date Installation Date | Data Type text(50) text(10) text(30) text(30) text(30) text(10) text(50) date date date integer | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("UtilityG&E," etc.). Type of point asset: Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset intersects. Possible values: The SPUC high fire thread district (HFTD) area the asset blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No No No | Availability Explanations Data Currently Available in GIS format Data exists but not in GIS format | consistent with data required following completion of data translation and extraction process Data procurement actions Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process | (1 year fare data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate | Alias Station ID Utility ID Asset Type Make and Manufacturer Model Number HETD Class County Last Inspection Date Last Maintenance Date Installation Date | Data Type text(50) text(10) text(30) text(30) text(30) text(10) date date date | PK | Description The equivalent to the "Asset ID" field from other feature classes, Sation ID for the weather station, it should enable data users to look up the data collected by the weather station. Firmary key for the Weather Station table. Standardised identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The CPUC high from the district (HFTD) area the asset interects. Possible values: Ter 3 Tier 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Use YMY-MM-DD format. Leave blank if unknown. Do not include time. Date of the last maintenance. Use YMY-MM-DD format. Leave blank if unknown. Do not include time. Year of asset installation. Use four digits. Enter "99" if unknown. The age of the asset in years. Only fill this out if the "installationYear" and "installationDate" values are unknown. Possible values: 19 10-20 10-2 | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation and extraction process Requires data translation and extraction process | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate 11 InstallationDate | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Last Maintenance Date Installation Date | Data Type text(50) text(10) text(30) text(30) text(30) text(10) text(50) date date date integer | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("Utilityo&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Ter 3 Ter 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the asset installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the sast was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the asset in years. Only fill this out if the "installation" and "InstallationDate" values are unknown. Possible values: 0.0-19 | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No No No No No N | Availability Explanations Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation on the WMP specific data taxonomy Data will still require translation and extraction process Requires data translation and extraction process | (1 year fare data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate 11 InstallationDate 12 EstimatedAge | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Last Maintenance Date Installation Date Listillation Date Listillation Date Listillation Date | Data Type text(50) text(10) text(30) text(30) text(30) text(50) date date date integer text(10) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardisad Identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The PUPC high fire threat district (HFTD) area the asset intersects. Possible values: Ter 3 Ter 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Lise YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the "installationYear" and "installationDate" values are unknown. Possible values: 19 20-29 30-39 90-9 >100 Unknown N/A (only netter this if there is an "installationYear" value) N/A (only netter this if there is an "installation Use" values are useful functioning existence upon initial installation. Use 90 or walve years an asset is expected to have a useful functioning existence upon initial installation. Use 90 or unknown. Website address for weather station information (if | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No No No No No N | required Availability Explanations Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process | (1 year fare data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationPar 12 EstimatedAge | Alias Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Installation Date Installation Date Estimated Age Useful Lifespan | Data Type text(50) text(10) text(30) text(30) text(30) text(50) date date date integer text(10) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardized identification name of the utility ("Utilityo&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. The CPUC high-fire threat district (HFTD) area the asset intersects. Possible values: Tier 3 Tier 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date of the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. The age of the asset in years. Only fill this out if the "installation" and "installationDate" values are unknown. Possible values: 0.31 0.32 0.33 0.44 0.49 0.59 0.69 0.79 0.89 0.89 0.99 0.90 0.10 0.10 0.10 0.10 0.10 0.1 | Data provided in latest submission? (Yes/ No) Yes Yes No No No No No No No No No N | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Requires data translation and extraction process | (1 year fare data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 2021 WMP 1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |
| | Field Name 1 StationID 2 UtilityID 3 AssetType 4 MakeandManufacturer 5 ModelNumber 6 HFTDClass 7 County 8 LastInspectionDate 9 LastMaintenanceDate 10 InstallationDate 11 InstallationPare 12 EstimatedAge | Allas Station ID Utility ID Asset Type Make and Manufacturer Model Number HFTD Class County Last Inspection Date Last Maintenance Date Installation Vear Extimated Age Useful Lifespan Weather Station URL | Data Type text(50) text(10) text(30) text(30) text(30) text(50) date date date integer text(10) | PK | Description The equivalent to the "Asset ID" field from other feature classes. Station ID for the weather station. It should enable data users took up the data collected by the weather station. Primary key for the Weather Station table. Standardisad Identification name of the utility ("UtilityG&E," etc.). Type of point asset. Required field: Weather station What is the make and manufacturer of the asset? Enter "Unknown" if this cannot be determined. Model number of the asset. Enter "Unknown" if this cannot be determined. The PUPC high fire threat district (HFTD) area the asset intersects. Possible values: Ter 3 Ter 2 Zone 1 Non-HFTD County in which asset is located. Date of the last inspection. Lise YYYY-MM-DD format. Leave blank if unknown. Do not include time. Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the "installationYear" and "installationDate" values are unknown. Possible values: 19 20-29 30-39 90-9 >100 Unknown N/A (only netter this if there is an "installationYear" value) N/A (only netter this if there is an "installation Use" values are useful functioning existence upon initial installation. Use 90 or walve years an asset is expected to have a useful functioning existence upon initial installation. Use 90 or unknown. Website address for weather station information (if | Data provided in latest submission? (Yes/ No) Yes Yes No | Availability Explanations Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data exists but not in GIS format | consistent with data requirements would be required following completion of data translation and extraction process Data procurement actions Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation and extraction process Requires data translation and extraction process | (1 year after data extraction and translation work complete) Estimated delivery timeframe 2021 WMP 2021 WMP 2021 WMP "1 year to implement (Prepared for 2022 WMP) | (Yes/No) No |

| | WSD Data | | | | | | | | |
|--|---|--|------------------|--|--|--|--|---|--|
| Transmission Line nn Field Name | Alias | Data Type | Characteristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential (Yes/No) |
| 1 CircuitID | Circuit ID | text(50) | PK | Unique ID for a specific circuit. It should be a traceable stable ID within the utility's operations/processes. Primary key enabling connection to the "Transmission Line Detail" table. | Yes | | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP | 2021 WMP | No |
| 3 LineClass | Line Class | text(30) | | | Yes | Data Currently Available in GIS format | translation to new WMP | 2021 WMP | No |
| 4 CircuitName | Circuit Name | text(255) | | Classification of line asset. Required value: Transmission | Yes | Data Currently Available in GIS | | 2021 WMP | No |
| 5 County | County | text(150) | | Name of circuit associated with asset. | No | Data Currently Available in GIS | translation to new WMP specific data taxonomy Data will still require | 2021 WMP | No |
| 6 ConductorType | Conductor Type | text(30) | Domain | County in which asset is located. If the line crosses multiple counties, list all counties separated by commas. Type of conductor. Possible values: | No | format | translation to new WMP specific data taxonomy | ~1 year to implement | W |
| 6 ConductorType | Conductor Type | text(30) | Domain | Type of conductor. Possible values: Bare Covered | No | | Requires data translation and extraction process | "1 year to implement (Prepared for 2022 WMP) | Yes |
| 7 AssetOHUG | Asset OH or UG | text(30) | Domain | Unknown Is the asset overhead or underground? Possible values: Overhead | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP | 2021 WMP | No |
| | | | | Underground Unknown | | | specific data taxonomy | | |
| 8 NominalVoltagekV | Nominal Voltage (kV) | float | | Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. Enter "-99" if N/A. Concerting unlarge (in dispute) of conductor. Do not use more than two decimal places. | No | format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 9 OperatingVoltagekV 10 SubstationID | Operating Voltage (kV) Substation ID | float text(50) | FK | Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. Enter "-99" if N/A. | No No | format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 11 SubstationName | Substation Name | text(50) | rk. | ID of substation associated with asset. Foreign key to the Substation table. | No | format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 12 ConductorMaterial | Conductor Material | text(50) | Domain | Name of substation associated with asset. Conductor material. Possible values: All aluminum conductor (AAC) | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | All aluminum alloy conductor (AAAC) Aluminum conductor aluminum reinforced (ACAR) | | iomac | and extraction process | (Frepared for 2022 WWIF) | |
| | | | | Aluminum conductor steel reinforced (ACSR) Copper (Cu) Other – See comment. | | | | | |
| 13 ConductorMaterialComme | ent Conductor Material Comment | text(50) | | Conductor material not listed in the options above. | No | | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 14 ConductorSize | Conductor Material Comment | text(30) | | Size of conductor (e.g. No. 4 Cu or 1/0 ACSR). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 15 ConductorOD 16 ConductorCodeName | Conductor Overall Diameter (inches) Conductor Code Name | float text(30) | | Overall diameter of the conductor in inches. | No No | format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 17 Terminal1 | Terminal 1 | text(50) | | Codename of the conductor. For example, "Lapwing," "Sparrow," etc. | No | format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 18 Terminal2 | Terminal 2 | text(50) | | Substation name of first terminal. Substation name of second terminal. | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 19 Terminal3 | Terminal 3 | text(50) | | Substation name of third terminal. | No | Data exists but not in GIS | Requires data translation | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 20 Terminal4 | Terminal 4 | text(50) | | Substation name of fourth terminal. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 21 Terminal5 22 Terminal(s) | Terminal 5 Terminal(s) | text(50) text(50) | | Substation name of fifth terminal. | No No | format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 22 Terminal(s) 23 LastInspectionDate | Last Inspection Date | date | | Substation name of other terminals. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not | No No | format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 24 LastMaintenanceDate | Last Maintenance Date | date | | include time. Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 25 InstallationDate | Installation Date | date | | include time. Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 26 InstallationYear | Installation Year | integer | | include time. Year of asset installation. Use four digits. Enter "-99" if unknown. | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 27 EstimatedAge | Estimated Age | text(10) | Domain | The age of the asset in years. Only fill this out if the "InstallationYear" and "InstallationDate" values are unknown. Possible values: | No | Data exists but not in GIS | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | 0-9 10-19 20-29 | | | | | |
| | | | | 30-39 40-49 | | | | | |
| | | | | 50-59 60-69 70-79 | | | | | |
| | | | | 80-89 90-99 | | | | | |
| | | | | >100 Unknown | | | | | |
| 28 UsefulLifespan | Useful Lifespan | integer | | N/A (only enter this if there is an "InstallationYear" value) The number of years an asset is expected to have a useful functioning existence upon initial installation. Use -99 for unknown. | l No | | Requires data translation | ~1 year to implement | Yes |
| 29 AmpacityRating | Ampacity Rating (A) | float | | Nominal ampacity rating of the conductor, in amperes). | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 30 Greased | Greased | text(10) | Domain | Is the conductor greased to prevent water intrusion? Possible values: Yes | No | | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | No Unknown | | | | | |
| Primary Distribution Line nn Field Name | Alias | Data Type | Characteristic | | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | Confidential |
| 1 CircuitID | Circuit ID | text(50) | PK | P Unique ID for a specific circuit. It should be a traceable stable ID within the utility's | submission? (Yes/ No) Yes | Data Currently Available in GIS | Data will still require | timeframe 2021 WMP | (Yes/No) No |
| 2 UtilityID | Utility ID | text(30) | | operations/processes. Primary key enabling connection to the "Primary Distribution Lines Detail" table. | Yes | | translation to new WMP specific data taxonomy | 2021 WMP | No |
| 2 utilityib | Otliny ID | text(30) | | Standardized identification name of the utility ("UtilityG&E," etc.). | res | format | translation to new WMP specific data taxonomy | 2021 WMP | NO |
| 3 LineClass | Line Class | text(30) | | | Yes | | translation to new WMP | 2021 WMP | No |
| 4 CircuitName | Circuit Name | text(255) | | Classification of line asset. Required value: Primary distribution | Yes | Data Currently Available in GIS | specific data taxonomy Data will still require translation to new WMP | 2021 WMP | No |
| 5 County | County | text(150) | | Name of circuit associated with asset. County in which asset is located. If the line crosses multiple counties, list all counties | No | | specific data taxonomy | ~1 year to implement | No |
| 6 ConductorType | Conductor Type | text(10) | Domain | separated by commas. Type of conductor. Possible values: | No | Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | Bare Linknown | | format | and extraction process | (Prepared for 2022 WMP) | |
| 7 AssetOHUG | Asset OH or UG | text(30) | Domain | Is the asset overhead or underground? Possible values: Overhead | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP | 2021 WMP | No |
| 8 NominalVoltagekV | Non-in-livebrandus | float | | Underground Unknown Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. | | | specific data taxonomy Requires data translation | | W |
| 9 OperatingVoltagekV | Nominal Voltage (kV) Operating Voltage (kV) | float | | Enter "99" if N/A. Enter "-99" if N/A. Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. | No No | format | and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 10 SubstationID | Substation ID | text(50) | FK | Enter "-99" if N/A. Enter "-99" if N/A. | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 11 SubstationName | Substation Name | text(50) | | ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. | No | Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 12 ConductorMaterial | Conductor Material | text(50) | Domain | Conductor material. Possible values: All aluminum conductor (AAC) | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | All aluminum alloy conductor (AAAC) Aluminum conductor aluminum reinforced (ACAR) | | TOTAL CONTRACTOR OF THE PARTY O | and extraction process | (Tepared for 2022 William) | |
| | | | | Aluminum conductor steel reinforced (ACSR) Copper (Cu) Other – See comment. | | | | | |
| 13 ConductorMaterialComme | ent Conductor Material Comment | text(50) | | Conductor material not listed in the options above. | No | | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 14 ConductorSize | Conductor Size | text(30) | | Size of conductor (e.g. No. 4 Cu or 1/0 ACSR). | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 15 ConductorOD 16 ConductorCodeName | Conductor Overall Diameter (inches) Conductor Code Name | float text(30) | | Overall diameter of the conductor in inches. | No No | format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 17 LastInspectionDate | Last Inspection Date | date | | Codename of the conductor. For example, "Lapwing," "Sparrow," etc. Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 18 LastMaintenanceDate | Last Maintenance Date | date | | include time. Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 19 InstallationDate | Installation Date | date | | include time. Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 20 InstallationYear | Installation Year | integer | | Year of asset installation. Use four digits. Enter "-99" if unknown. | No | Data exists but not in GIS | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 21 EstimatedAge | Estimated Age | text(10) | Domain | The age of the asset in years. Only fill this out if the "InstallationYear" and "InstallationDate" values are unknown. Possible values: | No | | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | 0-9 10-19 20-29 | | | | | |
| | | | | 30-39 40-49 | | | | | |
| | | | | 50-59 60-69 | | | | | |
| | | | | 70-79 80-89 90-99 | | | | | |
| | | | | >100 Unknown | | | | | |
| 22 UsefulLifespan | Useful Lifespan | integer | | N/A (only enter this if there is an "installationYear" value) The number of years an asset is expected to have a useful functioning existence upon initial installation. Use -99 for unknown. | l No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 23 AmpacityRating | Ampacity Rating (A) | float | | Nominal ampacity rating of the conductor, in amperes). | No | Data exists but not in GIS | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 24 Greased | Greased | text(10) | Domain | Is the conductor greased to prevent water intrusion? Possible values: Yes | No | Data exists but not in GIS | Requires data translation | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | No Unknown | | | | | |
| Secondary Distribution Lin nn Field Name | ne Alias | Data Type | Characteristic | | Data provided in latest | Availability Explanations | Data procurement actions | | |
| 1 CircuitID | Circuit ID | text(50) | PK | Description Unique ID for a specific circuit. It should be a traceable stable ID within the utility's operations/orocesses. Primary key enabling connection to the "Secondary Distribution | submission? (Yes/ No) No | Data exists but not in GIS | Requires data translation | Estimated delivery timefra ~1 year to implement (Prepared for 2022 WMP) | an£onfidential No |
| | | | | operations/processes. Primary key enabling connection to the "Secondary Distribution Lines Detail" related table. This ID is expected to be based on the circuit name of the secondary line's associated primary distribution line. | | format | and extraction process | (crepared for 2022 WMP) | |
| 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | No |
| 3 LineClass 4 CircuitName | Line Class Circuit Name | text(30) text(255) | | Classification of line asset. Required value: Secondary distribution Name of circuit associated with asset. This name is expected to be based on the circuit | No No | format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | No No |
| - circuitname | Circuit ridme | text(255) text(150) | | name of the secondary line's associated primary distribution line. County in which asset is located. If the line crosses multiple counties, list all counties | No No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | No No |
| 5 County | County | | Domain | separated by commas. Type of conductor. Possible values: | No | format Data exists but not in GIS | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 5 County 6 ConductorType | County Conductor Type | text(30) | | Open wire | | format | and extraction process | (Prepared for 2022 WMP) | |
| | | | | Triplex | | | | | |
| 6 ConductorType 7 ConductorTypeComment | Conductor Type Conductor Type Comment | text(30) text(30) | | Triplex Other – See comment. Conductor type not listed in the options above. | No | format | Requires data translation and extraction process | (Prepared for 2022 WMP) | Yes |
| 6 ConductorType | Conductor Type | text(30) | Domain | Triplex Other – See comment. Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead | No No | format Data exists but not in GIS | and extraction process Requires data translation | "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | Yes No |
| 6 ConductorType 7 ConductorTypeComment | Conductor Type Conductor Type Comment | text(30) text(30) | | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Underground Unificom Uniforma Normial voltage (in kilovolts) of conductor. Do not use more than two decimal places. | | format Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG | Conductor Type Conductor Type Comment Asset OH or UG | text(30) text(30) text(30) | | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead Underground Nominal voltage (in klovolits) of conductor. Do not use more than two decimal places. Enter "99" if N/L. Enter "99" if N/L. Operating voltage (in klovolits) of conductor. Do not use more than two decimal places. | No | format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS | and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement 1 year to implement | No |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltagekV | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (kV) | text(30) text(30) text(30) | | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead Underground Nominal voltage fin islowolts of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. Operating voltage fin islowolts of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. | No No | format Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | No Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltageLV 10 OperatingVoltageLV 11 SubstationID 12 SubstationName | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (IV/) Operating Voltage (IV/) Substation ID Substation Name | text(30) text(30) text(30) float float | Domain | Triples Conductor type not listed in the options above. It he safe overhead or underground? Possible values: Overhead Unificom Unificom Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. It of substation associated with sacet. Foreign key to the Substation table. Name of substation associated with asset. | No No | format Data exists but not in GIS format | and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | No Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltagetV 10 OperatingVoltagetV 11 SubstationID | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (AV) Operating Voltage (kV) Substation ID | text(30) text(30) text(30) float float text(50) | Domain | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: On the asset overhead or underground? Possible values: Onderground Unknown Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. Conductor material Possible values: All subminum conductor (AAC) | No No No | format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | and extraction process Requires data translation Requires data translation | (Prepared for 2022 WMP) '1 year to implement | No Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltageLV 10 OperatingVoltageLV 11 SubstationID 12 SubstationName | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (IV/) Operating Voltage (IV/) Substation ID Substation Name | text(30) text(30) text(30) float float text(50) | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Other—See comment. Is the asset overhead or underground? Possible values: Other ground. Unknown Nominal voltable (in kilovolts) of conductor. Do not use more than two decimal places. Entier "99" if N/A. Enter "99" if N/A. Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Entier "99" if N/A. Enter "99" if N/A. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. Foreign key to the Substation table. All altername moderator (AACC) All altername moderator (AACC) All altername moderator altername resiforced (AACC) All altername moderator altername resiforced (AACC) All altername moderator altername resiforced (AACR) | No No No | format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | and extraction process Requires data translation Requires data translation | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement | No Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltageLV 10 OperatingVoltageLV 11 SubstationID 12 SubstationName | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (IV/) Operating Voltage (IV/) Substation ID Substation Name | text(30) text(30) text(30) float float text(50) | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead Underground Underground Womaid voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter *59" #Ny. Enter *59" #Ny. Option thing voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter *59" #Ny. Enter *59" #Ny. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. Conductor material Possible values: All subminimal Most Possible values: All subminimal Most Possible values: All subminimal Most Conductor. | No No No | format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | and extraction process Requires data translation Requires data translation | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement | No Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltagetV 10 OperatingVoltagetV 11 SubstationD 12 SubstationD 13 ConductorMaterial | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (kV) Operating Voltage (kV) Substation ID Substation Name Conductor Material | text(30) text(30) text(30) float float text(50) text(50) | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead Overhead or underground? Possible values: Overhead or underground? Possible values: Overhead or underground? Possible values: Overhead or underground? Unknown Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" If N/A. Enter "99" If N/A. ID of partiage voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" If N/A. Enter "99" If N/A. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. Conductor material. Possible values: Ordinator material. Possible values: All all submission and ordination reinforced (ACAR) Alaminum conductor steel reinforced (ACAR) Alaminum conductor steel reinforced (ACSR) Copper (Cu) | No No No No No | format Data exists but not in GIS format | and extraction process Required data translation and extraction process | (Prepared for 2022 WMP) "I year to implement (Prepared for 2022 WMP) | Yes Yes Yes Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltage4V 10 OperatingVoltage4V 11 SubstationID 12 SubstationID 13 ConductorMaterial 14 ConductorMaterialComme 15 ConductorSize | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (IV) Operating Voltage (IV) Substation ID Substation ID Substation Name Conductor Material ent Conductor Material Comment Conductor Size | text(30) text(30) text(30) float float text(50) text(50) text(50) | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead Underground Underground Nominal voltage fin klovolity of conductor. Do not use more than two decimal places. Enter "99" if N/L. Enter "99" if N/L. Operating voltage (in klovolity) of conductor. Do not use more than two decimal places. Enter "99" if N/L. Enter "99" if N/L. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. All aluminam More conductor (AACA) Alluminam Conductor (AACA) Aluminam Aluminam Conductor (AACA) | No No No No No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process Requires data translation and extraction process and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | Yes Yes Yes Yes Yes Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltage4V 10 OperatingVoltage4V 11 SubstationID 12 SubstationIName 13 ConductorMaterial 14 ConductorMaterialComment 15 ConductorMaterialComment 15 ConductorSize 16 ConductorOD | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (kV) Operating Voltage (kV) Substation ID Substation Name Conductor Material ent Conductor Material Comment Conductor Size Conductor Overall Diameter (inches) | text(30) text(30) text(30) float float text(50) text(50) text(50) text(30) float | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Possible values: Overhead. Unstroom Unstroom Normal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Enter "99" if N/A. Enter "99" if N/A. Enter "99" if N/A. If O of substation associated with asset. Name of substation associated with asset. All all annimal modulor stroothed. All all summan Mally conductor (AACC) Allaminum conductor stem from the conductor. Copper (Co) Copper (Co) Copper (Co) Conductor material not listed in the options above. | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process and extraction process and extraction process Requires data translation and extraction process Requires data tra | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| 6 ConductorType 7 ConductorTypeComment 8 AssetOHUG 9 NominalVoltage4V 10 OperatingVoltage4V 11 SubstationID 12 SubstationID 13 ConductorMaterial 14 ConductorMaterialComme 15 ConductorSize | Conductor Type Conductor Type Comment Asset OH or UG Nominal Voltage (kV) Operating Voltage (kV) Substation ID Substation Name Conductor Material ent Conductor Material Comment Conductor Size Conductor Overall Diameter (inches) Conductor Code Name | text(30) text(30) text(30) float float text(50) text(50) text(50) text(30) float text(30) | Domain FK | Triples Conductor type not listed in the options above. Is the asset overhead or underground? Pleasable values: Other—See comment. Conductor type not listed in the options above. Is the asset overhead or underground? Pleasable values: Outledground Unknown Nominal valuating lin kilovoltsj of conductor. Do not use more than two decimal places. Enter "99" iff N/A. Enter "99" iff N/A. Operating valuege in kilovoltsj of conductor. Do not use more than two decimal places. Enter "99" iff N/A. Enter "99" iff N/A. ID of substation associated with asset. Foreign key to the Substation table. Name of substation associated with asset. Foreign key to the Substation table. All all submanum conductor (AACC) All all submanum conductor (AACC) All all submanum conductor submanum erienforced (ACSR) Outler —See comment. Conductor material no flisted in the options above. Size of conductor (e.g. No. 4 Cu or 1/0 ACSR). Overall diameter of the conductor in inches. Codename of the conductor. For example, "Lapaving," "Sparrow," etc. | No No No No No No No No | format Data exists but not in GIS format | and extraction process Requires data translation and extraction process and extraction process and extraction process Requires data translation and extraction process Requires data translation and ex | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | Yes |
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25 Greased Greased text[10] Domain is the conductor greased to prevent water intrusion? Possible values: No Data exists but not in GIS Requires data translation. "1 year to implement Yes Yes Yes No Unknown

No Unknown

| | | WSD Data | s Schemas D | raft V2 (2020 | -09-09) - PSPS Event | | | | | | |
|-----------------|--|---|-----------------------|----------------------|--|--|--|--|--|---|------------------------|
| Column | Field Name | Alias | | Characteristic | • | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Post | | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 EventID | Event ID | text(50) | PK | A unique standardized identification name of the unique event. Primary key enabling connection to PSPS event feature classes. | | Event? (Yes/No) Yes, anticipated to be | submission? (Yes/ No) No PSPS actions initiated; not ye Not Currently Available | requirements if deployed | Within 30 days of deployment | Yes |
| | 2 CircuitID 3 CircuitName | Circuit ID Circuit Name | text(50) text(255) | FK | A unique standardized identification name of the circuit that was de-energized. Foreign key to all the related asset line tables. Name of circuit associated with asset. | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with | Within 30 days of deployment | |
| | 4 UtilityID | Utility ID | text(10) | | $Standardized\ identification\ name\ of\ the\ utility\ ("UtilityG\&E,"\ etc.).$ | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed | Within 30 days of deployment Within 30 days of deployment | |
| | 5 SubstationID | Substation ID | text(50) | | A unique standardized identification name of the substation/feeder feeding the circuit that was de-energized during the PSPS event. Foreign Key to the Substation table. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with | Within 30 days of deployment | Yes |
| | 6 SubstationName 7 IsolationDevice | Substation Name Isolation Device | text(50) text(30) | Domain | Name of substation associated with asset. The device which isolated the circuit during the PSPS event. Possible values: | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | | | 1011(02) | | Circuit Breaker Fuse Switch | ,, | , | Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 8 IsolationDeviceComment | Isolation Device Comment | text(50) | | Other – See comment. Isolation device not listed in the options above. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 9 IsolationDeviceID | Isolation Device ID | text(50) | FK | A unique standardized identification name of the isolation device. Should match the value in the "AssetID" field of the isolation device's point data in the "Switchgear" feature class. A foreign key, AKA AssetID. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | B-1 | Within 30 days of deployment | Yes |
| | 10 EOCActivationDate 11 EOCActivationTime | EOC Activation Date EOC Activation Time | date | | Date IOU's emergency operation center (EOC) was activated in YYYY-MM-DD format. Do not include time. Time IOU's emergency operation center was activated. Must be in the "hh:mm:s" | | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed | Within 30 days of deployment | Yes |
| | 12 StartDate | Start Date | date | | Time IOU's emergency operation center was activated. Must be in the Intrimiss format. Start date of the PSPS event in YYYY-MM-DD format. Do not include time. | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with | Within 30 days of deployment Within 30 days of deployment | |
| | 13 StartTime 14 AllClearDate | Start Time All Clear Date | date | | Start time of the PSPS event (i.e. when the first de-energization occurred). Must be in the "hh:mm:ss" format. Date the weather event precipitating the PSPS event cleared the area, and the utility | No PSPS actions initiated; not yet required No PSPS actions initiated: not yet required | Yes, anticipated to be | No PSPS actions initiated; not $\gamma e_{\mbox{\sc Not Currently Available}}$ | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 15 AllClearTime | All Clear Time | date | | Date the weather event precipitating the PSPS event cleared the area, and the utility began inspection and restoration efforts. Must be in YYYY-MM-DD format. Do not include time. Time the weather event precipitating the PSPS event cleared the area, and the utility | | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | | | | | began inspection and restoration efforts. Must be in the "hh:mm:ss" format. | | | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed | Within 30 days of deployment | Yes |
| | 16 AllLoadUpDate 17 AllLoadUpTime | All Load Up Date All Load Up Time | date | | Date last customer was fully restored following the PSPS event. Must be in YYYY-MM-DD format. Do not indude time. Time the last customer was fully restored following the PSPS event and "All Load Up" was declared. Must be in the "hh:mm:ss" format. | | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye Not Currently Available | Data will be assessed consistent with | Within 30 days of deployment Within 30 days of deployment | |
| | | s Predicted Duration Minutes | integer | | Anticipated duration of PSPS event's circuit shutoff after it is initiated. Must be reported in whole number minutes. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 19 ActualDurationMinutes 20 DurationPredictionError | | integer | | Actual duration of PSPS event's circuit shutoff. This would be determined after restoration and must be reported in whole number minutes. "PredictedDurationMinutes" minus "ActualDurationMinutes". Positive values indicate | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye | Data will be procured consistent with requirements if deployed Data will be procured consistent with requirements if deployed | | Yes |
| | 21 TotalCustomerMinutes | Total Customer Minutes | integer | | shorter than predicted PSPS outage duration; negative values indicate longer than predicted PSPS outage duration. "ActualDurationMinutes" multiplied by "TotalCustomers". This field features total | No PSPS actions initiated; not yet required | Yes, anticipated to be | Not Currently Available No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with | | |
| | 22 TotalCustomerHours | Total Customer Hours | integer | | customer minutes impacted across the circuit. "TotalCustomerMinutes" divided by 60. This field features total customer hours impacted across the circuit. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with requirements if deployed | | |
| | 23 TotalCustomers | Total Customers | integer | | Total impacted customers. This is not necessarily a sum of all customer category values listed below because medical baseline customers may also be in other customer categories. | | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements ir deployed | Within 30 days of deployment | Yes |
| | 24 ResidentialCustomers 25 MedicalBaselineCustome | Residential Customers rs Medical Baseline Customers | integer | | Total residential customers. Total medical baseline customers. | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with | Within 30 days of deployment Within 30 days of deployment | Yes Yes |
| | | o Commercial Industrial Customers | integer | | Total commercial/industrial customers. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | |
| | 27 OtherCustomers 28 CriticalInfrastructure | Other Customers Critical Infrastructure | integer | | Total customers that do not fall within residential or commercial/industrial (as requested under Decision 12-04-024). Number of critical infrastructure locations (in accordance with Decision 19-05-042 as | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye Not Currently Available | Posts will be progressed consistent with | Within 30 days of deployment | Yes |
| | 29 CriticalInfrastructureDura | ti Critical Infrastructure Duration | integer | | modified by D.20-05-051) impacted by the PSPS event. Duration of critical infrastructure locations (in accordance with Decision 19-05- 042) de-energized during the PSPS event. Must be reported in whole number minutes. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with | Within 30 days of deployment Within 30 days of deployment | |
| | 30 CriticalInfrastructureImpa | c Critical Infrastructure Impact | integer | | "CriticalInfrastructure" multiplied by "CriticalInfrastructureDuration". This field features the total PSPS impact on critical infrastructure. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 31 County 32 WindRisk | County Wind Risk | text(150) text(3) | Domain | County in which asset is located. If the line crosses multiple counties, list all counties separated by commas. Was high wind a driving risk factor in the PSPS decision? Possible values: | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available No PSPS actions initiated; not ye | requirements if deployed | Within 30 days of deployment | Yes |
| | 33 RelativeHumidityRisk | Relative Humidity Risk | text(3) | Domain | Yes No | No PSPS actions initiated; not yet required | Yes, anticipated to be | Not Currently Available No PSPS actions initiated; not ye Not Currently Available | Pata will be procured consistent with | Within 30 days of deployment | |
| | 34 TemperatureRisk | Temperature Risk | text(3) | Domain | Was high temperature a driving risk factor in the PSPS decision? Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | requirements if deployed Data will be procured consistent with | Within 30 days of deployment Within 30 days of deployment | Yes |
| | 35 VegetationRisk | Vegetation Risk | text(3) | Domain | No Was a higher probability of vegetation interference a driving risk factor in the PSPS decision? Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye | requirements if deployed | | |
| | 36 AssetRisk | Asset Risk | text(3) | Domain | Ves No Was a higher probability of asset failure a driving risk factor in the PSPS decision? | No PSPS actions initiated; not yet required | Yes, anticipated to be | Not Currently Available No PSPS actions initiated; not ye | Data will be procured consistent with requirements if deployed | | |
| | 30 ASSETRISK | ASSET KISK | text(3) | Domain | was a nigner probability or asset failure a driving risk factor in the PSPS decision? Possible values: Yes | No PSPS actions initiated; not yet required | res, anticipated to be | Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 37 DeadFuelRisk | Dead Fuel Risk | text(3) | Domain | No Was a high presence of dead fuel a driving risk factor in the PSPS decision? Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 38 LiveFuelRisk | Live Fuel Risk | text(3) | Domain | Yes No Was a high presence of live fuel a driving risk factor in the PSPS decision? Possible | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye | | | |
| | | | | | values: Yes No | | | Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 39 RedFlagWarningRisk | Red Flag Warning Risk | text(3) | Domain | Was the presence of a Red Flag Warning risk day a driving factor in the PSPS decision? Possible values: Yes | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Not Currently Available | Data will be procured consistent with requirements if deployed | Within 30 days of deployment | Yes |
| | 40 OtherRisk | Other Risk | text(3) | Domain | No Was some other form of risk (not covered by the fields above) a driving risk factor in the PSPS decision? Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye | Data will be procured consistent with | Within 30 days of deployment | Voc |
| | 41 OtherRiskReason | Other Risk Reason | text(100) | | Yes No Brief description of what the "OtherRisk" category is if there is a "Yes" value under the | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye | requirements if deployed | | |
| | | | | | "OtherRisk" field. Possible example statements include things like "vehicle collision," "reported ignition," etc. Enter "N/A" if the value for "OtherRisk" is "No." | | | Not Currently Available | requirements if deployed | Within 30 days of deployment | Yes |
| Line Column | PSPS Event Line Field Name | Alias | Data Type | Characteristic | Description | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Post Event? (Yes/No) | -Data provided in latest Availability Explanations submission? (Yes/ No) | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 PspsEventLineID 2 EventID | PSPS Event Line ID Event ID | text(50) text(50) | PK FK | An underscore delimited concatenation of "EventID"+"_"+"CircuitID." Primary key for the PSPS Event Line table. A unique standardized identification name of the unique event. Foreign key enabling | | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Data exists | Requires data translation and | | Yes Yes |
| | 3 CircuitID | Circuit ID | text(50) | FK | connection to "PSPS Event Log" table. A unique standardized identification name of the circuit that was de-energized. Foreign key to all the related asset line tables. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Data exists No PSPS actions initiated; not ye Data exists | Populare data translation and | Within 10 days of deployment | Yes |
| | 4 UtilityID 5 County | Utility ID County | text(10) text(150) | | Standardized identification name of the utility ("UtilityG&E," etc.). County in which asset is located. If the line crosses multiple counties, list all counties | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Data exists | Requires data translation and | | Yes Yes |
| Polygon | PSPS Event Polygon | | | | separated by commas. | | | No PSPS actions initiated; not ye Data exists | extraction process | | |
| Column | Field Name 1 PspsEventPolygonID | Alias PSPS Event Polygon ID | Data Type text(50) | Characteristic PK | Description Primary key for PSPS Event Polygons. | Provided in 10-Day Post-Event Report? (Yes/ No) No PSPS actions initiated; not yet required | Can be reported within 30-Days Post Event? (Yes/No) Yes, anticipated to be | submission? (Yes/ No) | Requires data translation and | Estimated delivery timeframe Within 10 days of deployment | |
| | 2 EventID | Event ID | text(50) | FK | A unique standardized identification name of the unique event. Foreign key enabling connection to "PSFS Event Log" table. | | Yes, anticipated to be | No PSPS actions initiated; not ye Data exists No PSPS actions initiated; not ye Data exists | extraction process Requires data translation and extraction process | | Yes |
| | 3 CircuitID 4 UtilityID | Circuit ID Utility ID | text(50) text(10) | FK | A unique standardized identification name of the circuit that was de-energized. Foreign key to all the related asset line tables. Standardized identification name of the utility ("UtilityG&E," etc.). | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Data exists | extraction process Requires data translation and | Within 10 days of deployment Within 10 days of deployment | Yes Yes |
| | 5 County | County | text(150) | | County in which asset is located. If the line crosses multiple counties, list all counties separated by commas. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Data exists No PSPS actions initiated; not ye Data exists | Promises data translation and | Within 10 days of deployment | |
| Point Column | PSPS Event Customer Me Field Name | ter Point Alias | Data Type | Characteristic | Description | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Post | -Data provided in latest Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 PspsEventMeterID | PSPS Event Meter ID | text(50) | PK | Event Customer Meter Point. | No PSPS actions initiated; not yet required | Event? (Yes/No) Yes, anticipated to be | submission? (Yes/ No) No PSPS actions initiated; not ye Data exists | extraction process | Within 10 days of deployment | Yes |
| | 2 EventID 3 AssetID | Event ID Circuit ID | text(50) text(50) | FK FK | A unique standardized identification name of the unique event. Foreign key enabling connection to "PSPS Event Log" table. Unique ID for a specific meter. It should be a traceable stable ID within the utility's | No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not ye Data exists No PSPS actions initiated; not ye Data exists | Requires data translation and | Within 10 days of deployment Within 10 days of deployment | Yes |
| | 4 UtilityID | Utility ID | text(10) | | operations/processes. Foreign key to the Meter table. Standardized identification name of the utility ("UtilityG&E," etc.). | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye No PSPS actions initiated; not ye | Requires data translation and | Within 10 days of deployment | |
| | 5 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the asset damage point intersects. Possible values: Tier 3 | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data exists | Requires data translation and | Within 10 days of deployment | Yes |
| | | | | | Tier 2 Zone 1 Non-HFTD | | | No PSPS actions initiated; not ye | extraction process | | |
| | 6 County | County | text(150) | | County in which asset is located. If the line crosses multiple counties, list all counties separated by commas. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye Data exists | Requires data translation and extraction process | Within 10 days of deployment | Yes |
| Column | PSPS Event Damage Poir Field Name | Alias | Data Type | Characteristic | | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Post Event? (Yes/No) | -Data provided in latest Availability Explanations submission? (Yes/ No) | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 DamageEventID | Damage Event ID | text(50) | PK | ID value for an individual PSPS event. Event ID values for damage points should match event ID values in corresponding PSPS event GIS data. Primary key enabling connection to PSPS event conductor, support structure, and other asset damage detail tables. | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | Yes |
| | 2 EventID | Event ID | text(50) | FK | A unique standardized identification name of the unique event. Foreign key enabling connection to "PSPS Event Loc" table. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | | Within 30 days of deployment | |
| | | | | | connection to PSPS Event Log Table. | No PSPS actions initiated: not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then | Within 30 days of deployment | Yes |
| | 3 UtilityID | Utility ID | text(10) | | $Standardized\ identification\ name\ of\ the\ utility\ ("UtilityG\&E,"\ etc.).$ | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required | Augmentation of introduction of new | Within 30 days of deployment | |
| | 4 Europe | Final Red Committee | text(150) | Domain | Time of first had arise | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | Yes |
| | 4 FuelBedDescription | Fuel Bed Description | text(150) | Domain | Type of fuel bed existing under damage location. Possible values: Fire-resistive fuel bed - Fuel bed not conducive to propagating fire where damage occurred (e.g. asphalt, concrete, gravel, etc.). | | | | | | |
| | | | | | Grass fuel model - Fuel bed comprised of annual grasses where damaged occurred. Brush fuel model - Fuel bed comprised of mainly brush or shrubs where damage occurred (e.g. chamise, manzanita, chaparral, scotch broom, etc.). | | | | | | Yes |
| | | | | | Timber fuel model - Fuel bed comprised of a timber where damaged occurred (e.g. forests, timber litter, logging slash, etc.). Other – See comment. | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | |
| | 5 FuelBedDescriptionComn | ne Fuel Bed Description Comment | text(150) | | Fuel bed description not listed in the options above. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required | Augmentation of introduction of new | Within 30 days of deployment | |
| | | | | | | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | Yes |
| | 6 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the asset damage point intersects. Possible values: Tier 3 | | | | Augmentation of introduction of new | | Yes |
| | | | | | Tier 2 Zone 1 Non-HFTD | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | |
| | 7 County | County | text(150) | | County in which asset damage is located. If the line crosses multiple counties, list all counties separated by commas. | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | Yes |
| | 8 Latitude | Latitude | float | | Latitude of point in decimal degrees. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required | translate/export to GIS formats | Within 30 days of deployment | |
| | | | | | | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | Yes |
| | 9 Longitude | Longitude | float | | Longitude of point in decimal degrees. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required | Augmentation of introduction of new | Within 30 days of deployment | |
| | | | | | | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | Yes |
| Table Column | PSPS Event Conductor Da Field Name | mage Detail Alias | Data Type | Characteristic | Description | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Post | | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 PspsCdID | PSPS Conductor Damage ID | text(50) | PK | Primary key for the PSPS Event Conductor Damage Detail table. | | Event? (Yes/No) | submission? (Yes/ No) | Augmentation of introduction of new | | |
| | 200 | D | | | Posts for some services | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | Yes |
| | 2 DamageEventID | Damage Event ID | text(50) | FK | ID value for an individual PSPS event. Event ID values for damage points should match event ID values in corresponding PSPS event GIS data. Foreign key enabling connection to "PSPS Event Damage Points" feature class. | | | | Augmentation of introduction of new data capture tools and processes to | | Yes |
| | 3 DateofDamage | Date of Damage | date | | Date or estimated date damage occurred in YYYY-MM-DD format. Leave blank if | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | | Within 30 days of deployment | |
| | | | | | unknown. Do not include time. | No occupant | W | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | Artebia 20 de | Yes |
| | 4 EstimatedTimeofDamage | Time of Damage | date | | Estimated time damage occurred. Must be in the "hh:mm:ss" format. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new | Within 30 days of deployment | Vac |
| | 5 AssetID | Asset ID | text(50) | FK | Holya ID for a copyrile society areas to the state of the | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | Within 30 days of deployment | Yes |
| | ⇒ resecuti | . Name (III | ext(50) | 16 | Unique ID for a specific point asset. It should be a traceable stable ID within the utility: operations/processes. Foreign key to the related asset point tables. | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | Yes |
| | 6 Asset | Asset | text(10) | | Specific type of asset that is damaged. Required value: Conductor | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not ye data capture tools required | | Within 30 days of deployment | |
| | | | | | | No PSPS actions initiated; not yet required | Yes anticinated to be | | data capture tools and processes to capture this information and then | Within 30 days of deployment | Yes |
| | | | | | | no rara accounts initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required | Ganssace/export to GIS formats | vvicimi ou days of deployment | |
| | | | | | | | | | | | |

| | 7 NominalVoltagekV | Nominal Voltage (kV) | float | | | | | | | |
|-----------------|--|--|-----------|----------------|---|--|---|--|--|------------------------|
| | 0.0 | Oversite Males and Ann | float | | Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 8 OperatingVoltagekV | Operating Voltage (kV) | | | Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 9 FromDevice | From Device | text(50) | FK | The upstream support structure asset ID. Foreign key to the related asset point tables. AKA AssetID. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 10 ToDevice | To Device | | FK | The downstream support structure asset ID. Foreign key to the related asset point tables. AKA AssetID. Circuit/feeder ID for the damaged soan of line. Foreign to the related asset line tables. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 11 FeederID | FeederID | | FK | | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 12 ConductorMaterial | Conductor Material | text(50) | Domain | Conductor material. Possible values: All aluminum conductor (AAC) All aluminum conductor (AAC) Aluminum conductor aluminum reinforced (ACAR) Aluminum conductor steel reinforced (ACSR) | | | | Augmentation of introduction of new data capture tools and processes to | Yes |
| | 13 ConductorMaterialCommi | e Conductor Material Comment | text(50) | | Copper (Cu) Other – See comment. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 14 ConductorType | Conductor Type | text(10) | Domain | Conductor material not listed in the options above. Type of conductor. Possible values: Bare Covered | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 15 ConductorLength | Conductor Length (feet) | float | | Unknown Conductor length in feet based on GIS data. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 16 FailedEquipmentDescripti | o Failed Equipment Description | text(100) | | Equipment that contributed to the conductor damage. Write "Unknown" or "N/A" as appropriate. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 17 ExternalForceDescription | External Force Description | text(100) | | Force responsible for causing the conductor damage. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 18 SubstationName | Substation Name | text(50) | | Name of substation associated with asset. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not yedata capture tools required | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 19 SubstationID | Substation ID | text(50) | | ID of substation associated with asset. Foreign Key to the Substation table. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not yedata capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 20 SubstationType | Substation Type | text(10) | Domain | Type of substation. Possible values: Radial Loop | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not ye data capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to | Yes |
| | 21 Cause | Cause | text(30) | Domain | Network High-level category for PSPS event cause. Possible values: Object contact Equipment failure | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist - Changes to No PSPS actions initiated; not ye data capture tools required | capture this information and then translate/export to GIS formats Within 30 days of deployment | |
| | | | | | Wire-to-wire contact Contamination Utility work/Operation Vandalism/Thelt Unknown | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | Yes |
| | 22 CauseComment | Cause Comment | text(30) | | Other—See comment. Cause category not listed in options above. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required Data does not exist – Changes to | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture thools and processes to capture this information and then | Yes |
| | 23 EnergizedOnGround | Energized On Ground | text(10) | Domain | Did the damaged conductor make contact with the ground while energized? Possible values: Yes No | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required Data does not exist – Changes to | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to capture this information and then | Yes |
| | 24 ManufacturerModellD | Manufacturer Model ID | text(50) | | Unknown! The manufacturer and asset model specifications that would enable one to identify exactly what type of equipment was involved with the damage. If some sort of model or part code/name is not available, at least record the manufacturer name. Write "Unknown" if no manufacturer incl can be | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yedata capture tools required | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new | Yes |
| | 25 InstallationDate | Installation Date | date | | determined based on information available in the field. "Unknown" values should be reviewed by other IOU staff after data collection and filled in from existing databases or other sources if possible. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new | |
| | 26 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | t No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new | Yes |
| | 27 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the "InstallationYear" and "InstallationDate" values are unknown. Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | | | | | 0-9 10-19 20-29 30-39 40-49 | | | | | |
| | | | | | 50-59 60-69 70-79 80-89 90-99 | | | | Augmentation of introduction of new | Yes |
| | 28 UsefulLifespan | Useful Lifespan | integer | | >100 Unknown N/A (only enter this if there is an "InstallationYear" value) The number of years an asset would have been expected to have a useful functioning existence prior to damage. Use -99 for unknown. | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new | |
| | 29 LikelyArcing | Likely Arcing | text(10) | Domain | Was arcing likely because of the damage? Possible values: Yes | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new | Yes |
| | 30 DamageType | Damage Type | text(30) | Domain | No Unknown Type of damage sustained. Possible values: Asset damage | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | | | | | Asset failure Equipment damage Equipment failure Veg contact Object contact | No PSPS actions initiated; not yet required | Yes, anticipated to be | Data does not exist – Changes to No PSPS actions initiated; not yedata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Within 30 days of deployment | Yes |
| | 31 DamageDescription | Damage Description | text(30) | Domain | Description of damage. Possible values: Broken conductor Damaged conductor Kite in line Pine needles on line | | | | | |
| | | | | | Tree bark on line Tree branch on line Tree leaning into line Tree leaning toward line Wire-to-wire contact | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | Yes |
| | 32 DamageDescriptionComm | eDamage Description Comment | text(30) | | Other – Sec comment. Damage category not listed in the options above and/or additional relevant details about damage | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not ye data capture tools required Data does not exist – Changes to | translate/export to GIS formats Within 30 days of deployment Augmentation of introduction of new data capture tools and processes to capture this information and then | Yes |
| Table Column | PSPS Event Support Struc Field Name | ture Damage Detail Alias | Data Type | Characteristic | Description | No PSPS actions initiated; not yet required Provided in 10-Day Post-Event Report? (Yes/ No) | Yes, anticipated to be Can be reported within 30-Days Post | No PSPS actions initiated; not yedata capture tools required t- Data provided in latest Availability Explanations | translate/export to GIS formats Within 30 days of deployment Data procurement actions Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 PspsSsdID | PSPS Support Structure ID | text(50) | PK | Primary key for the PSPS Event Support Structure Damage Detail table. | No PSPS actions initiated; not yet required | Event? (Yes/No) Yes, anticipated to be | submission? (Yes/ No) No PSPS actions initiated; not yet required Data does not exist - Changes to data capture tools required | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then | Yes |
| | 2 DamageEventID | Damage Event ID | text(50) | FK | ID value for an individual PSPS event. Event ID values for damage points should match event ID values in corresponding PSPS event GIG data. Foreign key enabling connection to "PSPS Event Damage Points" Feature class. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture the information of them. | Yes |
| | 3 DateofDamage | Date of Damage | date | | Date or estimated date damage occurred in YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist – Changes to data capture tools required | translate/export to GIS formats | Yes |
| | 4 EstimatedTimeofDamage | Time of Damage | date | | Estimated time damage occurred. Must be in the "hh:mm:ss" format. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist – Changes to data capture tools required | data capture tools and processes to capture this information and then | Yes |
| | 5 AssetID | Asset ID | text(50) | FK | Unique ID for a specific point asset. It should be a traceable stable ID within the utility: operations/processes. Foreign key to the related asset point tables. | s No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist – Changes to data capture tools required | data capture tools and processes to capture this information and then | Yes |
| | 6 Asset | Asset | text(30) | Domain | Specific type of asset that is damaged. This list of dropdown menu items should be modified by each IOU to cover the assets most likely to be involved in PSPS damage. Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist - Changes to data capture tools required | translate/export to GIS formats Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then | Yes |
| | 7 AssetComment | Asset Comment | text(30) | | Pole Tower Crossar Crossar Secondary arms Other – See comment. Asset not listed in the options above. | No PSPS actions initiated: not yet required | Yes, anticipated to be | No PSPS actions initiated; not Data does not exist – Changes to | translate/export to GIS formats Augmentation of introduction of new Within 30 days of deployment | Yes |
| | | | | | | | | yet required data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats | |
| | FeederID NominalVoltagekV | Circuit ID Nominal Voltage (kV) | text(50) | FK | Circuit/feeder ID for the damaged span of line. Foreign to the related asset line tables. | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | yet required data capture tools required | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then translate/export to GIS formats Augmentation of introduction of new Within 30 days of deployment | |
| | | Nominal Voltage (kV) Operating Voltage (kV) | float | | Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter *-99" if N/A. | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not yet required at a capture tools required at a capture tools required No PSPS actions initiated; not Data does not exist – Changes to | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then translate/export to GIS formats Augmentation of introduction of new Within 30 days of deployment | |
| | OperatingVoltagekV SupportStructureMaterial | | float | Domain | Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "99" if N/A. Material of which support structure is made. Possible values: | No PSPS actions initiated; not yet required No PSPS actions initiated; not yet required | Yes, anticipated to be Yes, anticipated to be | No PSPS actions initiated; not yet required adata capture tools required No PSPS actions initiated; not Data does not exist – Changes to | data capture tools and processes to capture this information and then translate/export to GIS formats | |
| | emlaterial | | (44) | , Merel | Material of which support structure is made. Possible values: Wood Metal Composite Wrapped wood Concrete | , no. ye. (equiled | мереней и ис | No PSPS actions initiated; not Data does not exist — Changes to yet required data capture tools required | Augmentation of introduction of new Within 3U days of deployment data capture tools and processes to capture this information and then translate/export to GIS formats | |
| | 12 MaterialComment | Material Comment | text(30) | | Concrete Other - See comment. Support structure material not listed in the options above. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not pata does not exist – Changes to yet required data capture tools required | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then translate/export to GIS formats | Yes |
| | 13 ManufacturerModellD | Manufacturer Mode IID | text(50) | | The manufacturer and asset model specifications that would enable one to identify exactly what type of equipment was involved with the damage. If some sort of model or part code/name is not available, at least record the manufacturer name. Write "Unknown" if no manufacturer indo can be determined based on information available. | | Yes, anticipated to be | No PSPS actions initiated; not Data does not exist – Changes to yet required data capture tools required | translate/export to us rormats Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to capture this information and then translate/export to GiS formats | Yes |
| | 14 InstallationDate | Installation Date | date | | in the field. "Unknown" values are determined used on into instruction available in the field. "Unknown" values should be reviewed by other IOU staff after data collection and filled in from existing databases or other sources if possible. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not Data does not exist – Changes to yet required data capture tools required | Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to | Yes |
| | 15 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | t No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required Data does not exist – Changes to data capture tools required | capture this information and then translate/export to GIS formats Augmentation of introduction of new Within 30 days of deployment data capture tools and processes to | Yes |
| | | | | | Year of asset installation. Use four digits. Enter *-99" if unknown. | | | | capture this information and then translate/export to GIS formats | |

| 16 EstimatedAge | Estimated Age | text(10) | Domain | The age of the asset in years. Only fill this out if the "installationYear" and "installationDate" values are unknown. Posible values: 09 10-19 20-29 30-39 40-49 50-59 | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Wit data capture tools and processes to capture this information and then translate/export to GIS formats | thin 30 days of deployment | Yes |
|--|--------------------------------|------------------------|----------------------|--|--|---|---|--|---|----------------------------|------------------------|
| | | | | 60-69 70-79 80-89 90-99 >100 | | | | | | | |
| 17 UsefulLifespan | Useful Lifespan | integer | | Usinorum NA (coly enters this if there is an "InstallationYear" value) The number of years an asset would have been expected to have a useful functioning esistence prior to damage. Use 99 for unknown. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Wit data capture tools and processes to capture this information and then translate/export to GIS formats | thin 30 days of deployment | Yes |
| 18 LikelyArcing | Likely Arcing | text(10) | Domain | Was arcing likely because of the damage? Possible values: Yes No Unknown | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Wit data capture tools and processes to capture this information and then | thin 30 days of deployment | Yes |
| 19 DamageType | Damage Type | text(30) | Domain | Type of damage sustained. Possible values: Asset damage Asset failure | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | translate/export to GIS formats Augmentation of introduction of new Wit data capture tools and processes to capture this information and then | thin 30 days of deployment | Yes |
| 20 DamageDescription | Damage Description | text(30) | Domain | Equipment damage Equipment damage Vag contact Object contact Description of damage. Possible values: Broken pole Damaged pole Broken tower Damaged tower Broken consumm | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Wit data capture tools and processes to capture the information and then translate/export to GIS formats | thin 30 days of deployment | Yes |
| 21 DamageDescriptionCo | mme Damage Description Comment | text(30) | | Damaged crossarm Other—See comment. Damage category not listed in the options above and/or additional relevant details about damage | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not yet required | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new Wit data capture tools and processes to capture this information and then translate/export to GIS formats | thin 30 days of deployment | Yes |
| Table PSPS Event Other Asso Column Field Name | Alias | Data Type | Characteristic | | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Po: Event? (Yes/No) | st- Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions Esti | imated delivery timeframe | Confidential? (Yes/No) |
| 1 PspsOadID | PSPS Other Asset Damage ID | text(50) | PK | Primary key for the PSPS Event Other Asset Damage Detail table. | | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIs formats Wit | thin 30 days of deployment | Wes |
| 2 DamageEventID | Damage Event ID | text(50) | FK | ID value for an individual PSPS event. Event ID values for damage points should match event ID values in corresponding PSPS event GIS data. Foreign key enabling connection to "PSPS Event Damage Points" feature class. | | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this information and then | | |
| 3 DateofDamage | Date of Damage | date | | Date or estimated date damage occurred in YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | edata capture tools required Data does not exist – Changes to | translate/export to GIS formats Wit Augmentation of introduction of new data capture tools and processes to capture this information and then | thin 30 days of deployment | Yes |
| 4 EstimatedTimeofDama | age Time of Damage | date | | Estimated time damage occurred. Must be in the "hh:mm:ss" format. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | redata capture tools required Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to | thin 30 days of deployment | Yes |
| 5 AssetID | Asset ID | text(50) | FK | Unique ID for a specific point asset. It should be a traceable stable ID within the utility operations/processes. Foreign key to the related asset point tables. | No PSPS actions initiated; not yet required s | Yes, anticipated to be | No PSPS actions initiated; not y | pata does not exist — changes to redata capture tools required | capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new data capture tools and processes to | thin 30 days of deployment | Yes |
| 6 Asset | Asset | text(30) | Domain | Specific type of asset that is damaged. This list of dropdown menu items should be modified by each DU to cover the assets most likely to be involved in PSPS damage. Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | | capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| | | | | Service neutral Span guy Tie wire Wood pin | | | | | Augmentation of introduction of new data capture tools and processes to | | |
| 7 AssetComment | Asset Comment | text(30) | | Anchor Other – See comment. Asset not listed in the options above. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to re data capture tools required | capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new data capture tools and processes to | thin 30 days of deployment | Yes |
| 8 FeederID | Circuit ID | text(50) | FK | Circuit/feeder ID for the damaged span of line. Foreign to the related asset line tables. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new | thin 30 days of deployment | Yes |
| 9 NominalVoltagekV | Nominal Voltage (kV) | float | | | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new | thin 30 days of deployment | Yes |
| 10 OperatingVoltagekV | Operating Voltage (kV) | float | | Nominal voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-99" if N/A. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | | data capture tools and processes to capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| 11 ManufacturerModelliD | Manufacturer Model ID | text(50) | | Operating voltage (in kilovolts) of conductor. Do not use more than two decimal places. Enter "-59" it N/A. The manufacturer and asset model specifications that would enable one to identify exactly what type of equipment was involved with the damage. If some sort of model or part code/name is not available, at least record the manufacturer anne. White Vinknown" if no manufacturer inco. The determined based on information available. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | | data capture tools and processes to capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| 12 InstallationDate | Installation Date | date | | in the field. "Unknown" values should be reviewed by other IOU staff after data collection and filled in from existing databases or other sources if possible. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new | thin 30 days of deployment | Yes |
| 13 InstallationYear | Installation Year | integer | | Date the asset was installed. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | t No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to e data capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| 14 EstimatedAge | Estimated Age | text(10) | Domain | Year of asset installation. Use four digits. Enter "-99" if unknown. The age of the asset in years. Only fill this out if the "installationYear" and "installationOtary "auleas are unknown. Possible values: | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to edata capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| | | | | 0-9 10-13 20 | No PSPS actions initiated; not yet required | | | Data does not exist – Changes to | Augmentation of introduction of new data capture tools and processes to capture this formation and then | thin 30 days of deployment | |
| 15 UsefulLifespan | Useful Lifespan | integer | | N/A (only enter this if there is an "installationYear" value) The number of years an asset would have been expected to have a useful functioning existence prior to damage. Use -99 for unknown. | no rara actions nintated, not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to | translate/export to GIS formats Wit Augmentation of introduction of new data capture tools and processes to capture this information and then | ann 30 days of deployment | ies . |
| 16 ExemptionStatus | Exemption Status | text(10) | Domain | is the asset exempt per California Public Resources Code (PRC) 4292° PRC 4292 requires clearance around support structures on which certain equipment is mounted in certain areas. This field that may be most efficiently filled out by IOU technical staff after field collection. Possible values: Yes | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | | | thin 30 days of deployment | Yes |
| 17 LikelyArcing | Likely Arcing | text(10) | Domain | Unknown N/A Was arcing likely because of the damage? Possible values: Yes No | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to edata capture tools required | capture this information and then translate/export to GIS formats Wit Augmentation of introduction of new data capture tools and processes to | thin 30 days of deployment | Yes |
| 18 DamageType | Damage Type | text(30) | Domain | Unknown Type of damage sustained. Possible values: Asset damage | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | capture this information and then | thin 30 days of deployment | Yes |
| 19 DamageDescription | Damage Description | text(30) | Domain | Asset failure Equipment failure Equipment failure Veg contact Object contact Object contact Object contact Broken hand is Broken neutral Broken nevice neutral Broken neutral | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to edata capture tools required | Augmentation of introduction of new data capture tools and processes to capture the information and then translate/e-sport to GIS formats Wistonialate/e-sport to GIS formats | thin 30 days of deployment | Yes |
| 20 DamageDescriptionCo | mm« Damage Description Comment | text(30) | | Broken pin Broken insulator Damaged crossarm Giny and anchor damage Tree branch on transformer Other—See command on transformer Damage category not listed in the options above and/or additional relevant details about damage | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to re data capture tools required | Augmentation of introduction of new | thin 30 days of deployment | Yes |
| Table occupant | 04 | | | | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | data capture tools and processes to capture this information and then translate/export to GIS formats Wit | thin 30 days of deployment | Yes |
| Table PSPS Damage Photo L Column Field Name 1 PhotoID | Alias Photo ID | Data Type text(100) | Characteristic PK | c Description Number or other label for a photo of the asset that enables the point to be linked to GIS data. If more than one photo is taken, enter additional IDs with separation | Provided in 10-Day Post-Event Report? (Yes/ No) | Can be reported within 30-Days Po- Event? (Yes/No) | sst- Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions Esti | imated delivery timeframe | Confidential? (Yes/No) |
| 2 FuelBedPhotoID | Fuel Bed Photo ID | text(100) | PK | commas. A primary key for the "PSPS Damage Photo Log" table. Photo format: Geratgged PEG or PMC. Use format: UtilityName_DistrictID_inspectorinital_PspuDamage_YYYYMMDD.*PhotoNumber. For example, "UtilityGER_AR_PspuDamage_202007031_ptg". Number or other label for a photo of the fust bed below the damaged asset that enables the point to be linked to GS data. If more than one photo is taken, enter | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to e data capture tools required | Augmentation of introduction of new | thin 30 days of deployment | Yes |
| 3 DamageEventiD | Damage Event ID | text(100) | FK | additional IDs with separation commas. A primary key for the "PSPS Damage Photo Log" table. Foreign key to the damage point tables. | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to redata capture tools required | Augmentation of introduction of new | thin 30 days of deployment | Yes |
| | | | | | No PSPS actions initiated; not yet required | Yes, anticipated to be | No PSPS actions initiated; not y | Data does not exist – Changes to edata capture tools required | | thin 30 days of deployment | Yes |

| Point | Wire Down Event | WSD Data Schemas Draft V2 (2 | | | | Data provide de la | Available | Data a | | |
|-----------------|---|--|------------|---------------------|--|--|--|--|---|--------------------------|
| Column | Field Name 1 WireDownID | Alias Wire Down ID | | Charateristic PK | Description Unique ID for the wire down event. Primary key for the | Data provided in latest submission? (Yes/ No) Yes in response to (PC-43900 | | Data procurement actions Data will still require translation to | Estimated delivery tim | ef Confidential? (Yes/No |
| | 2 UtilityID | Utility ID | text(10) | | Wire Down Point table. Standardized identification name of the utility | 2-656) | GIS format | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 3 WireDownDate | Wire Down Date | date | | ("UtilityG&E," etc.). The start date of the wire down event. Use YYYY-MM-DE | 2-656) Yes in response to (PC-43900 | GIS format - Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | | No |
| | 4 WireDownYear | Wire Down Year | integer | | format. Leave blank if unknown. | 2-656) Yes in response to (PC-43900 | GIS format - Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | | No |
| | 5 SuspectedWireDownCause | Suspected Wire Down Cause | text(30) | Domain | The year that the risk event occurred. Use four digits. High-level category for wire down event cause. Possible values: | 2-656) no | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | Object contact Equipment failure Wire-to-wire contact | | | | | |
| | | | | | Contamination Utility work/Operation Vandalism/Theft | | | | | |
| | 6 SuspectedWireDownCauseComment | Suspected Wire Down Cause Comment | text(30) | | Unknown Other – See comment. | no | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 7 ObjectContact | Object Contact | text(30) | Domain | Suspected wire down cause description not listed in the options above. Description of object involved in the contact if the value | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | of "SuspectedWireDownCause" is "Object contact." Ente N/A for this field if the value of "SuspectedWireDownCause" is not "Object contact." | f | | | | |
| | | | | | Possible values: Vegetation contact Animal contact | | | | | |
| | | | | | Balloon contact Vehicle contact - car pole Vehicle contact - aircraft | | | | | |
| | 8 EquimentFailure | Equiment Failure | text(30) | Domain | 3rd party contact (e.g. 3rd party tree trimmer) Unknown N/A | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | s EquimentFallure | Equiment Failure | text(30) | Domain | Description of failed or damaged equipment or component involved if "SuspectedWireDownCause" value is "Equipment failure." Enter N/A for this field if the value of | no | | | | |
| | | | | | "SuspectedWireDownCause" is not "Equipment failure." Possible values: Anchor/ guy | | | | | |
| | | | | | Anchory guy Capacitor bank Conductor Connector device | | | | | |
| | | | | | Crossarm Fuse Insulator and bushing | | | | | |
| | | | | | Lightning arrestor Pole | | | | | |
| | | | | | Recloser Relay Sectionalizer | | | | | |
| | | | | | Splice Switch Tap | | | | | |
| | | | | | Tie wire Transformer Voltage regulator/ booster | | | | | |
| | | | | | Unknown Other – See comment. N/A | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 9 EquipmentFailureComment | Equipment Failure Comment | text(30) | | | | Data does not exist – | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | |
| 1 | AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Equipment failure description not listed in the options above. Nominal voltage (in kilovolts) associated with asset. Do | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | AssociatedOperatingVoltagekV | Associated Nominal Voltage (kV) Associated Operating Voltage (kV) | float | | not use more than two decimal places. Enter "-99" if N/A. Operating voltage (in kilovolts) associated with asset. Do | No | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | AssociatedOperatingVoltagekV SpanLength | Associated Operating Voltage (kV) Span Length (feet) | float | | Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | The length of a single-phase conductor, in feet, as measured between the "FromDevice" and "ToDevice." | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy Augmentation of introduction of | 2021 WMP | No |
| 1 | 3 TotalSplices | Total Splices | integer | | The total number of splices in the span of conductor involved in the wire down event. In the event of wire | | Data does not exist – | new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and translation work | |
| 1 | 4 MaxSplices | Maximum Splices | integer | | down events occurring over multiple spans, include the total number of splices in all failed spans. | no | Changes to data capture tools required | information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and | translation work complete) ~2 years to implement (1 year after data | No |
| | | | | | The maximum number of splices in an individual phase | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| 1 | 5 MultipleDown | Multiple Down | text(3) | Domain | conductor involved in the wire down event. Was more than one span of conductors impacted by the | no | tools required | translate/export to GIS formats Augmentation of introduction of new data capture tools and | complete) ~2 years to implement (1 year after data | No |
| | | | | | wire down event? Possible values: Yes No | no | Data does not exist – Changes to data capture tools required | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| 1 | 6 ConductorMaterial | Conductor Material | text(50) | Domain | Material of the conductor involved in the wire down event. Possible values: All aluminum conductor (AAC) | | | | | |
| | | | | | All aluminum alloy conductor (AAAC) Aluminum conductor aluminum reinforced (ACAR) Aluminum conductor steel reinforced (ACSR) | | | | | |
| 1 | 7 ConductorMaterialComment | Conductor Material Comment | text(50) | | Copper (Cu) Other – See comment. | No | Data Currently Available in GIS format | Augmentation of introduction of | 2021 WMP ~2 years to implement | No |
| | | | | | Conductor material description not listed in the options | | Data does not exist – Changes to data capture | new data capture tools and processes to capture this information and then | (1 year after data extraction and translation work | |
| 1 | 8 ConductorSize | Conductor Size | text(30) | | above. Size (e.g. No. 4, 1/0, etc.) of the conductor involved in thincident, in AWG or | no e | tools required | translate/export to GIS formats Data will still require translation to | complete) | No |
| 1 | 9 ConductorOD | Conductor Overall Diameter (inches) | float | | KCMIL. | No | GIS format | new WMP specific data taxonomy Augmentation of introduction of new data capture tools and | 2021 WMP ~2 years to implement (1 year after data | No |
| | | | | | Overall diameter of the conductor, in inches. | no | Data does not exist – Changes to data capture tools required | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| 1 | 0 ConductorCodeName | Conductor Code Name | text(30) | | The code name of the conductor involved in the wire | 110 | Data does not exist Data | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | No |
| | | | | | down event. For example, Lapwing, Sparrow, Merlin, etc. | no | does not exist – inventory required | information and then translate/export to GIS formats | translation work complete) | No |
| 2 | 1 ConductorRating | Conductor Rating | float | | | | | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | |
| 2 | 2 OutageStatus | Outage Status | text(3) | Domain | The nominal ampacity rating of the conductor involved i the wire down event, in amperes. Was there an outage associated with the event? Possibl | no | Data does not exist – inventory required | information and then translate/export to GIS formats | translation work complete) | No |
| | | | | | values: Yes No | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 3 ToutageID | Transmission Outage ID | text(50) | FK | A unique ID for the transmission outage event. Foreign key to the Transmission Outages table. | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| | 4 DoutageID | Distribution Outage ID | text(50) | FK | A unique ID for the distribution outage event. Foreign key to the Distribution Outages table. | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| 2 | 5 Energized | Energized | text(3) | Domain | Was the conductor energized while in contact with a grounded object during the event? If the wire down event did not result in contact with a grounded object, | no | | | | |
| | | | | | Yes No | | Data Currently Available in | Data will still require translation to | | |
| 1 | 6 IgnitionStatus | Ignition Status | text(3) | Domain | N/A Was there an ignition associated with the wire down event? Possible values: | no | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| - | 7 WireDownNotes | Wire Down Notes | text(100) | | event / Possible values: Yes No Additional information or notes available for the wire | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 7 WireDownNotes 8 HFTDClass | Wire Down Notes HFTD Class | text(100) | Domain | Additional information or notes available for the wire down event and not captured in other fields. The CPUC high-fire threat district (HFTD) area the outage | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| 2 | G IN TUCIOS | ID Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the outage intersects. Possible values: Tier 3 Tier 2 | | | | | |
| | O City | Chr | garantee . | | Tier 2 Zone 1 Non-HFTD | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 9 City | City | text(50) | | City in where the wire down event is located. | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 0 County | County | text(50) | | County in where the wire down event is located. | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| | 1 District | District | text(100) | | Operating district where the wire down occurred. | Yes in response to (PC-43900 2-656) | - Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| | 2 Latitude | Latitude | float | | Latitude of event point in decimal degrees | | | Data will still require translation to new WMP specific data taxonomy | | No |
| 3 | 3 Longitude | Longitude | float | | P | Yes in response to (PC-43900 2-656) | - Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| Point Column | Ignition Field Name | Alias | Data Tyne | Charateristic | | Data provided in latest | | Data procurement actions | Estimated delivery | |
| | 1 IgnitionID | Ignition ID | text(50) | PK | Description Unique ID for the ignition event. Primary key for the | submission? (Yes/ No) Yes, 2020 WMP and CPUC | | Data will still require translation to | timeframe | Confidential? (Yes |
| | 2 UtilityID | Utility ID | text(10) | | Unique to for the ignition event. Primary key for the Ignition Point table. Standardized identification name of the utility | Decision 14-12-015 filings | GIS format | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 3 FireStartTime | Fire Start Time | date | | ("UtilityG&E," etc.). | Yes, 2020 WMP and CPUC Decision 14-12-015 filings Yes, 2020 WMP and CPUC | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | 4 FireStartDate | Fire Start Date | date | | The start time of the event. Must be in the "hh:mm:ss" format. The start date of the event. Use YYYY-MM-DD format. | Decision 14-12-015 filings | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 5 FireStartYear | Fire Start Year | Integer | | The start date of the event. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 6 FireDetectionMethod | Fire Detection Method | text(30) | Domain | The year that the risk event occurred. Use four digits. The method by which the utility first learned of the | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | ignition event. Possible values: Public Satellite | | | | | |
| | | | | | Camera Utility staff Fire agency | | | Data will still require translation to | | |
| | 7 FireDetectionMethodComment | Fire Detection Method Comment | text(30) | | Other – Comment. | no | | rn new WMP specific data taxonomy Augmentation of introduction of new data capture tools and | 2021 WMP ~2 years to implement (1 year after data | No |
| | | | | | Fire detection method description not listed in the options above. | no | Data does not exist – Changes to data capture tools required | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| | 8 SuspectedInitiatingCause | Suspected Initiating Cause | text(30) | Domain | The suspected initiating event of the ignition. Possible values: | ·no | required | eyexport to GIS formats | comprese) | |
| | | | | | Object contact Equipment failure Wire-to-wire contact | | | | | |
| | | | | | Contamination Utility work/Operation Vandalism/Theft | | | | | |
| | 9 SuspectedInitiatingCauseComment | Suspected Initiating Cause Comment | text(30) | | Unknown Other – See comment. | Decision 14-12-015 filings | GIS format | Data will still require translation to new WMP specific data taxonomy | | No |
| | ObjectContact | Object Contact | text(30) | Domain | Suspected initiating event of the ignition cause description not listed in the options above. | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | • | | ,50) | | Description of object involved in contact if "Object contact" is value of "SuspectedInitiatingEvent". If "Object contact" is not the value of "SuspectedInitiatingEvent," | t | | | | |
| | | | | | contact is not the value or Suspectedininating event, then enter N/A for this field. Possible values: Vegetation contact Animal contact | | | | | |
| | | | | | Animal contact Balloon contact Vehicle contact - car pole Vehicle contact - aircraft | | | | | |
| | | | | | Vehicle contact - aircraft 3rd party contact (e.g. 3rd party tree trimmer) Unknown N/A | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | Data Currently Available in GIS format | Data will still require translation to | 2021 WAR | No |
| | | | | | ** | sgnilit CTC-21-ex roungs | , | new WMP specific data taxonomy | | *** |

| | 11 EquimentFailure | Equiment Failure | text(30) | Domain | Description of equipment involved in ignition, if "Equipment failure" is value of "SuspectedinitiatingEvent". If "Equipment failure" is not the value of "SuspectedinitiatingEvent," then enter N/A for this field. Possible values: | | | | | |
|--------|------------------------------------|-----------------------------------|-----------------------|------------------|---|---|--|--|--|------------------------|
| | | | | | Anchor/guy Capacitor bank Conductor Connector device Crossarm | | | | | |
| | | | | | Fuse Insulator and bushing Lightning arrestor Pole Recloser | | | | | |
| | | | | | Relay Sectionalizer Splice Switch | | | | | |
| | | | | | Tap Tie wire Transformer Voltage regulator/ booster Unknown | | | | | |
| | 12 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Other – See comment. N/A Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | Decision 14-12-015 filings | GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 13 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | N/A. Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if | Decision 14-12-015 filings Yes, 2020 WMP and CPUC | GIS format Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | | No |
| | 14 SubstationID | Substation ID | text(50) | FK | N/A. Unique ID of the substation supplying the involved circuit. Foreign key to Substation table. | Decision 14-12-015 filings | GIS format Data exists but not in GIS for | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | | No No |
| | 15 SubstationName | | text(50) | | Name of the substation supplying the involved circuit. | no | | Data will still require translation to | 2021 WMP | No |
| | 16 OtherCompanies 17 EquipmentType | | text(50) text(30) | Domain | Affected companies from the event. The type of equipment involved in the ignition event. | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | ., | | 4.7 | | Possible values: Overhead Pad-mounted Subsurface | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WAND | No |
| | 18 Determination | Determination | text(30) | Domain | The entity relied upon to make the determination of "SuspectedinitiatingEvent" above. Possible values: Utility personnel Fire Agency | Yes, 2020 WMP and CPUC | Data Currently Available in | Data will still require translation to | | |
| | 19 DeterminationComment | Determination Comment | text(50) | | Other – See comment Determination entity description not listed in the options above. | Yes, 2020 WMP and CPUC | GIS format Data Currently Available in GIS format | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | | No No |
| | 20 FacilityContacted | Facility Contacted | text(50) | Domain | The first facility that was contacted by an outside object. Only to be used if "Object contact" is selected as "SuspectedInitiatingEvent". Possible values: Electric Facility Pole | Yes, 2020 WMP and CPUC | Data Currently Available in | Data will still require translation to | | |
| | 21 ContributingFactor | Contributing Factor | text(30) | Domain | Communication Facility Factors suspected as contributing to the ignition. Possible values: Weather | Decision 14-12-015 filings | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | External Force Human Error Other – See comment Unknown | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | text(30) | | | Yes, 2020 WMP and CPUC Decision 14-12-015 filings | | Data will still require translation to new WMP specific data taxonomy | | No |
| | 23 RFWStatus | Red Flag Warning Status | text(3) | Domain | Was there a red flag warning (RFW) issued by the National Weather Service (NWS) in effect at the ignition location at the time of ignition? Possible values: | no | | | | |
| | 24 RFWissueDate | Red Flag Warning Issue Date | date | | Yes No The date on which the NWS issued the RFW in effect at | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | the ignition location at the time of the ignition event. Leave blank if there was no RFW in effect at the time of ignition at the ignition location. Also leave blank if unknown. Use YYYY- | | Data Currently Available in | Data will still require translation to | | |
| | 25 RFWlssueTime | Red Flag Warning Issue Time | date | | MM-DD format. The time at which the NWS issued the RFW in effect at the ignition location at the time of the ignition event. | no | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | 26 FWWStatus | Fire Weather Watch Status | text(3) | Domain | Leave blank if there was no RFW in effect at the time of ignition at the ignition location. Must be in the "hh:mm:ss" format. Was there a fire weather watch (FWW) issued by the | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | National Weather Service (NWS) in effect at the ignition location at the time of ignition? Possible values: Yes | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 27 FWWissueDate | Fire Weather Watch IssueDate | date | | The date on which the NWS issued the FWW in effect at the ignition location at the time of the ignition event. Leave blank if there was no FWW in effect at the time of ignition at the ignition location. Also leave blank if | no | | , | | |
| | 28 FWWIssueTime | Fire Weather Watch IssueTime | date | | unknown. Use YYYY- MM-DD format. The time at which the NWS issued the FWW in effect at | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | the ignition location at the time of the ignition event. Leave blank if there was no FVW in effect at the time of ignition at the ignition location. Must be in the "hh:mm:ss" format. | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 29 HWWStatus | High Wind Warning Status | text(3) | Domain | Was there a high wind warning (HWW) issued by the National Weather Service (NWS) in effect at the ignition location at the time of ignition? Possible values: | no | | | | |
| | 30 HWWIssueDate | High Wind Warning IssueDate | date | | Yes No The date on which the NWS issued the HWW in effect at the ignition location at the time of the ignition event. | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | Leave blank if there was no HWW in effect at the time of ignition at the ignition location. Also leave blank if unknown. Use YYYY-MM-DØ format. | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 31 HWWIssueTime | High Wind Warning IssueTime | date | | The time at which the NWS issued the HWW in effect at the ignition location at the time of the ignition event. Leave blank if there was no HWW in effect at the | no | | , | | |
| | 32 OriginLandUse | Origin Land Use | text(10) | Domain | time of ignition at the ignition location. Must be in the "hh:mm:ss" format. Status of land at origin of ignition. Possible values: Rural | CPLIC Decision 14-12-015 | GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 33 MaterialAtOrigin | Material At Origin | text(30) | Domain | Urban Fuel material for the ignition origin. Possible values: Vegetation | 2019 filing on 4/1/2020 | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | 34 MaterialAtOriginComment | Material At Origin Comment | text(30) | | Structure Other – See comment Material at origin description not listed in the options | 2019 filing on 4/1/2020 | GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 35 FuelBedDescription | Fuel Bed Description | text(100) | Domain | above. Type of fuel bed existing at the damage location. Possible values: Fire-resistive fuel bed - Fuel bed not conducive to | 2019 filing on 4/1/2020 | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | propagating fire where damage occurred (e.g. asphalt, concrete, gravel, etc.). Grass fuel model - Fuel bed comprised of annual grasses | | | | | |
| | | | | | where damaged occurred. Brush fuel model - Fuel bed comprised of mainly brush or shrubs where damage occurred (e.g. chamise, manzanita, chaparral, scotch broom, etc.). | | | | | |
| | | | | | Timber fuel model - Fuel bed comprised of a timber where damaged occurred (e.g. forests, timber litter, logging slash, etc.). Other – See comment. | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | text(100) | Domain | Fuel bed description not listed in the options above. Size, in acres unless otherwise indicated, of fire resulting | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 37 FRESILE | rile size | text(30) | Domain | from the ignition. Possible values: Structure-only <3 meters of linear travel | | | | | |
| | | | | | <0.25 0.26-99 100-299 300-999 | | | | | |
| | | | | | 1,000-4,999 >5,000 Unknown | CPUC Decision 14-12-015, 2019 filing on 4/1/2020 | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 38 SuppressedBy | Suppressed By | text(30) | Domain | Entity responsible for suppressing ignition. Possible values: Customer Fire agency | | | | | |
| | 39 SuppressingAgency | Suppressing Agency | text(30) | | Self-extinguished Utility Unknown | CPUC Decision 14-12-015, 2019 filing on 4/1/2020 | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | text(30) | Domain | If the "SupressedBy" is "Fire Agency", enter the fire department name. Whether the fire authority having jurisdiction investigated the profite and the details of the | CPUC Decision 14-12-015, 2019 filing on 4/1/2020 | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | investigated the ignition and the status of the investigation. Possible values: Yes – Complete Yes – Pending No | - | Data exists but not in GIS for | Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 41 FireAHJ | Fire AHJ | text(100) | | If there was an investigation of the ignition by a fire authority having jurisdiction, enter the fire agency name. | no | Data exists but not in GIS for Data exists but not in GIS for | Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | No |
| | 42 OutageStatus | Outage Status | text(3) | Domain | Was there an outage associated with the event? Possible values: Yes | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 43 ToutageID | - | | FK | A unique ID for the transmission outage event. Foreign key to the Transmission Outages table. | no | | Data will still require translation to | 2021 WMP | No |
| | 44 DoutageID 45 IgnitionNotes | | text(50) text(100) | FK | A unique ID for the distributoin outage event. Foreign key to the Distribution Outages table. Additional information regarding the ignition event. All | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 46 HFTDClass | | text(10) | Domain | additional data fields collected by the utility that are not included in this ignition schema shall be included in this field. The CPUC high-fire threat district (HFTD) area the ignition | 2019 filing on 4/1/2020 | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | .,/ | | The CPUC high-life threat district (HFID) area the ignition event intersects. Possible values: Tier 3 Tier 2 Zone 1 | | Data Currenth A 1- | Data will still require translation to | | |
| | 47 City | City | text(50) | | Non-HFTD | | GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 48 County | County | text(50) | | City in where the ignition event is located. County in where the ignition event is located. | no | Data Currently Available in | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | text(100) | | County in where the ignition event is located. Operating district where the ignition occurred. | no | GIS format Data Currently Available in GIS format | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | | No No |
| | | Latitude | float | | Latitude of event point in decimal degrees. | Yes in response to (PC-43900- 2-656) | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| Doint | Transmission Outage | ı | | | Longitude of event point in decimal degrees. | Yes in response to (PC-43900- 2-656) | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| Column | Field Name 1 ToutageID | | | Charateristic PK | Description The unique ID for outage event Primary key for the | Data provided in latest submission? (Yes/ No) | | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 2 UtilityID | Utility ID | text(10) | | The unique ID for outage event. Primary key for the Transmission Outages table. Standardized identification name of the utility | 2-656) Yes in response to (PC-43900- | GIS format Data Currently Available in | Data will still require translation to | 2021 WMP | No |
| | 3 EventYear | Event Year | integer | | ("UtilityG&E," etc.). The year outage started. Use four digits. | 2-656) Yes in response to (PC-43900- | GIS format | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | | No No |
| | | | date | | The year outage started. Use four digits. The date outage started. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | Yes in response to (PC-43900- | | Data will still require translation to new WMP specific data taxonomy | | No No |
| | - | - | date | | The time outage started. Must be in the "hh:mm:ss" format. | Yes in response to (PC-43900- 2-656) | | Data will still require translation to | 2021 WMP | No |
| | 7 OutageEndTime | - | date | | The date of full restoration. The time of full restoration. Must be in the "hh:mm:ss." | Yes in response to (PC-43900- 2-656) | GIS format | | 2021 WMP | No |
| | 8 OutageDuration | Outage Duration | date | | format. The total time to restore all customers from the first | Yes in response to (PC-43900- 2-656) Yes in response to (PC-43900- | GIS format Data Currently Available in | Data will still require translation to | 2021 WMP | No |
| | 9 CMI | | float | | customer out. Must be in the "hh:mm:ss" format. Total customer-minutes interrupted associated with the outage. Not more than two decimal places. | 2-656) No | GIS format | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No No |
| | 10 CustomersOutMomentary | Customers Out Momentary | integer | | Total number of unique customers that experienced an outage lasting 5 minutes or less. | No | | Data will still require translation to new WMP specific data taxonomy | | No |
| | | | | | | | | | | |

| | 11 CustomersOutSustained | Customers Out Sustained | integer | | | No | | | | |
|-----------------|--|--|--|---------------------|--|--|--|--|--|--|
| | 12 CustomerCount | Customer Count | integer | | Total number of unique customers that experienced an outage lasting longer than 5 minutes. | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 13 OutageInterval | Outage Interval | text(30) | Domain | The total number of customers impacted by the outage. Indication of whether the subject outage was momentary | y No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | (i.e. 5 minutes or less) or sustained (i.e. longer than 5 minutes). Possible values: Momentary Sustained | | | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 14 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Nominal voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. | No | Data Currently Available in | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 15 AssociatedOperatingVoltagekV 16 OtherCompanies | Associated Operating Voltage (kV) | float | | Operating voltage (in kilovolts) associated with asset. Do not use more than two decimal places. Enter "-99" if N/A. | No | GIS format | Data will still require translation to new WMP specific data taxonomy Augmentation of introduction of | 2021 WMP ~2 years to implement | No |
| | 16 OtherCompanies | Other Companies | text(150) | | | | Data does not exist – | new data capture tools and processes to capture this information and then | (1 year after data extraction and translation work | |
| | 17 OutageClass | Outage Class | text(30) | | Affected companies from the event. The class of circuit involved in the outage. Possible | No | tools required Data Currently Available in | translate/export to GIS formats Data will still require translation to | complete) | No |
| | 18 SubstationID | Substation ID | text(50) | FK | Values: Transmission Unique ID for the source substation feeding the circuit impacted by the outage. | no | | | 2021 WMP | No |
| | 19 RecloserSetting | Recloser Setting | text(30) | Domain | Must be traceable stable ID within a specific asset class. Foreign key to Substation table. If the subject circuit is equipped with reclosing capabilities, indicate whether the reclose function was | Yes in response to (PC-43900- 2-656) | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | enabled or disabled at the time of the outage. If the subject circuit is not equipped with reclosing capabilities assign N/A. Possible values: | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | Enabled Disabled N/A | no | Changes to data capture | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| | 20 IsolationDeviceType | Isolation Device Type | text(30) | Domain | Type of protective device that operated. Possible values: Circuit Breaker Fuse | | | | | |
| | | | | | Lightning Arrestor Switch Other – See comment | no | GIS format | | 2021 WMP | No |
| | 21 IsolationDeviceTypeComment | Isolation Device Type Comment | text(30) | | | | Data does not exist – | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | |
| | 22 BasicCause | Basic Cause | text(30) | Domain | Isolation device type description not listed in the options above. High-level category for event cause. Possible values: Object contact | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | | | | | Object contact Equipment failure Wire-to-wire contact Contamination | | | | | |
| | | | | | Utility work/Operation Vandalism/Theft Unknown | Yes in response to (PC-43900- | Data Currently Available in | Data will still require translation to | | |
| | 23 BasicCauseComment | Basic Cause Comment | text(30) | | Other – See comment. Basic cause description not listed in the options above. | | Data Currently Available in | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | | No No |
| | 24 BasicCauseObject | Basic Cause Object | text(30) | Domain | Description of object involved in contact if "Object contact" is value of "BasicCause." Possible values: Vegetation contact | no | GISTORMAT | new www specific data taxonomy | 2021 WMP | NO |
| | | | | | Animal contact Balloon contact Vehicle contact - car pole | | | | | |
| | | | | | Vehicle contact - aircraft 3rd party contact (e.g. 3rd party tree trimmer) Unknown N/A | | Data Currently Available in | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | |
| | 25 BasicCauseObjectComment | Basic Cause Object Comment | text(30) | | ŊA | no | | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | No |
| | 26 DamagedDevice | Damaged Device | text(30) | Domain | Basic cause object description not listed in the options above. The device type that failed or experienced damage which | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | | | | | initiated the outage. Possible Values: Anchor/guy Capacitor bank | | | | | |
| | | | | | Conductor Connector device Crossarm Fuse | | | | | |
| | | | | | Insulator and bushing Lightning arrestor Pole | | | | | |
| | | | | | Recloser Relay Sectionalizer | | | | | |
| | | | | | Splice Switch Tap Tie wire | | | | | |
| | | | | | Transformer Voltage regulator/ booster Unknown | | | | | |
| | 27 DamagedDeviceComment | Damaged Device Comment | text(30) | | Other – See comment. N/A | Yes in response to (PC-43900- 2-656) | GIS format | Data will still require translation to new WMP specific data taxonomy Augmentation of introduction of | 2021 WMP ~2 years to implement | No |
| | | | | | Damaged device description not listed in the options above. | no | Data does not exist – Changes to data capture | new data capture tools and processes to capture this information and then translate/export to GIS formats | (1 year after data extraction and translation work complete) | No |
| | 28 ExpulsionFuseOperation | Expulsion Fuse Operation | text(3) | | Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuses. Possible values | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | Yes No N/A | no | Data does not exist – Changes to data capture tools required | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| | 29 OutageDescription | Outage Description | text(100) | | | | Data does not exist – | Augmentation of introduction of new data capture tools and processes to capture this information and then | ~2 years to implement (1 year after data extraction and translation work | |
| | 30 MED | Major Event Day | text(3) | | If all outages on a certain date exceed a statistical limit | no | | | complete) | No |
| | | | | | called Major Event Day (MED), this flag is set against outages associated with that day and typically excluded from certain types of reports. Possible values Yes | Yes in response to (PC-43900- | Data Currenthy Ausilable in | Data will still require translation to | | |
| | 31 SupplementalCause | Supplemental Cause | text(50) | | No. | 2-656) Yes in response to (PC-43900- | GIS format | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 32 SupplementalCauseDescription | Supplemental Cause Description | text(100) | | The supplemental cause of the outage. | 2-656) | GIS format | new WMP specific data taxonomy Augmentation of introduction of new data capture tools and | 2021 WMP ~2 years to implement (1 year after data | No |
| | 33 HFTDClass | HFTD Class | text(10) | Domain | Please describe the supplemental cause of the outage. The CPUC high-fire threat district (HFTD) area the outage | no | Changes to data capture | processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | No |
| | 33 HEIDCIASS | HFI D Class | text(10) | Domain | intersects. Possible values: Tier 3 Tier 2 | | | | | |
| | 34 LocationOrAddress | Location or Address | text(100) | | Zone 1 Non-HFTD | no | GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 35 City | City | text(50) | | Address or location description for the outage location. | no | GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 36 County | County | text(50) | | City in where the outage event is located. | no | GIS format | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 37 District | District | text(100) | | County in where the outage event is located. | no Yes in response to (PC-43900- | Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | | No |
| | 38 Latitude | Latitude | float | | Operating district where the outage event occurred. Latitude of event point in decimal degrees. | 2-656) Yes in response to (PC-43900- 2-656) | Data Currently Available in | new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No No |
| | 39 Longitude | Longitude | float | | Longitude of event point in decimal degrees. | Yes in response to (PC-43900- 2-656) | Data Currently Available in | Data will still require translation to | 2021 WMP | No |
| Point Column | Transmission VM Outage Field Name | | | | | | | | | |
| | 1 TvmOutageID | Alias | Data Type | Charateristic | Bundatu | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | 6 - 6 d 12 D (N -) |
| | | Alias Transmission VM Outage ID | Data Type text(50) | Charateristic PK | Description The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. | Data provided in latest submission? (Yes/ No) Yes in response to (PC-43900- 2-656) | Data Currently Available in | Data will still require translation to | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 2 UtilityID | Transmission VM Outage ID Utility ID | text(50) text(10) | PK | The unique ID for outage caused by vegetation. Primary | submission? (Yes/No) Yes in response to (PC-43900-2-656) Yes in response to (PC-43900- | Data Currently Available in GIS format Data Currently Available in | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | timeframe | |
| | 3 ToutageID | Transmission VM Outage ID Utility ID Outage ID | text(50) text(10) text(50) | | The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. Standardized identification name of the utility | submission? (Yes/ No) Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) Yes in response to (PC-43900- | Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in | Data will still require translation to new WMP specific data taxonomy Data will still require translation to | 2021 WMP 2021 WMP | No |
| | | Transmission VM Outage ID Utility ID | text(50) text(10) | PK | The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. Standardized identification name of the utility ("UtilityGEE," etc.). Foreign key to the Transmission Outages table. The year outage started. Use four digits. | submission? (Yes/ No) Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP 2021 WMP 2021 WMP | No No |
| | 3 ToutageID 4 EventYear | Transmission VM Outage ID Utility ID Outage ID Event Year | text(50) text(10) text(50) int | PK | The unique ID for outage caused by vegetation. Primary key for the Transmission WA Outages table. Standardized identification name of the utility ("UtilityGEE," etc.). Foreign key to the Transmission Outages table. The year outage started. Use four digits. The date outage started. Use four MMA-DD format. Leave blank if unknown. | submission? (Yes) No) Ves in response to (PC-43900- 2-656) Yes in response to (PC-43900- 2-656) Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP 2021 WMP 2021 WMP 2021 WMP | No No |
| | 3 ToutageID 4 EventYear 5 DateOut | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out | text(50) text(10) text(50) int date | PK | The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. Standardized identification name of the utility ("UtilityGAE," etc.) Foreign key to the Transmission Outages table. The year outage started. Use four digits. The date outage started. Use YYYY-MM+DD format. Leave basin Funknown. The time outage started. Must be in the "hhummas" format. | submission? (Yes/ No) Ves in response to (PC-43900- 2-656) | Data Currently Available in GIS format Data Currently Available in | Data will still require translation to new Wh9* specific data tausnomy. Data will still require translation to wew Wh9* specific data tausnomy. Data will still require translation to new Wh9* specific data tausnomy. Data will still require translation to new Wh9* specific data tausnomy. Data will still require translation to new Wh9* specific data tausnomy. Data will still require translation to new Wh9* specific data tausnomy. Data will still require translation to new Wh9* specific data tausnomy. | 2021 WMP | No No No No |
| | 3 ToutageID 4 EventYear 5 DateOut 6 TimeOut | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out | text(50) text(10) text(50) int date time | PK | The unique ID for outage caused by vegetation. Primary key for the Transmission WA Outages table. Standardized identification name of the utility ("UtilityGEE," etc.). Foreign key to the Transmission Outages table. The year outage started. Use four digits. The eare outage started. Use four digits. The title outage started. Use 'NYY-MM-O'D format. Leave blank if unknown. The time outage started. Must be in the "hhmmass" format. Date of inspection. Use 'YYY-MM-O'D format. Eave blank if unknown. One include time. Unique ID for the source substation feeding the circuit. Unique ID for the source substation feeding the circuit magneted by the outage Must be traceable stable IO | submission? (Yes) No) Ves in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy but a will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No No No |
| | 3 ToutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out Time Out | text(50) text(10) text(50) int date time date | PK FK | The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. Standardized identification name of the utility ("UtilinyGAL," etc.). Foreign key to the Transmission Outages table. The year outage started. Use four digits. The date outage started. Use Four digits. The diste outage started. Use YYYY-MM-DD format. Leave balank If unknown. The time outage started. Must be in the "hhummass" format. Date of imspection. Use YYYY-MM-DD format. Leave balank If unknown. Do not include time. | submission? (Yes/ No) Ves in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy both will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. | 2021 WMP | No No No No |
| | 3 ToutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID | text(50) text(10) text(50) int date time date text(50) | PK FK | The unique ID for outage caused by vegetation. Primary key for the Transmission WA Outages table. Standardized identification name of the utility ("UtilityG8E," etc.). Foreign key to the Transmission Outages table. Foreign key to the Transmission Outages table. The year outage started. Use four digits. The date outage started. Use four digits. The date outage started. Use YNY-MMA-OD format. Leave blank if unknown. Date of inspection. Use YNY-MMA-OD format. Leave blank for the outage started. Must be in the "hhummass" format. Date of inspection. Use YNY-MMA-OD format. Leave blank if unknown on one include time. Unique ID for the source substation feeding the circuit unique ID for the source substation feeding the circuit subsect of the outage state (ID) within a specific asset class. Foreign key to Substation within a specific asset class. Foreign key to Substation House of the Comman Substate (ID) within a specific asset class. Foreign key to Substation No. No. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset Do. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset. Do. | submission? (Yes/ No) Yes in response to (PC-43900-2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to we WMP specific data taxonomy. Data will still require translation to Data will require translation to Data will still require translation to Data will not the Data will not Data will n | 2021 WMP | No N |
| | 3 ToutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltageVV | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID Associated Nominal Voltage (IV) | text(50) text(10) text(50) int date time date text(50) | PK FK | The unique ID for outage caused by vegetation. Primary key for the Transmission VM Outages table. Standardized identification name of the utility ("UtilityGAE," etc.) Foreigin key to the Transmission Outages table. The year outage started. Use four digits. The eyear outage started. Use four digits. The date outage started. Use YNY-MM-DD format. Leave blain if unitroom. The time outage started. Must be in the "hhummss" format. Date of inspection. Use YNY-MM-DD format. Leave blain if unitroom. Date of inspection. Use YNY-MM-DD format. Leave blain if unitroom. Date of inspection is environment of the unitroom | submission? (Yes/ No) Yes in response to (PC-43900-2-656) | Data Currently Available in GIS format Data Currently Available in GIS for format Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Augmentation of introduction of med wta capture tools and | 2021 WMP | No N |
| | 3 ToutageID 4 EventYear 5 DateDut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltagekV 10 AssociatedOperatingVoltagekV | Transmission VM Outage ID Utility ID Outage ID Event Year Date Out Inspection Date Substation ID Associated Nominal Voltage (IV) Associated Operating Voltage (IV) | text(50) text(10) text(50) int date time date text(50) float float | PK FK | The unique ID for outage caused by vegetation. Primary key for the Transmission WA Outages table. Standardized identification name of the utility ("UtilityG8E," etc.). Foreign key to the Transmission Outages table. Foreign key to the Transmission Outages table. The year outage started. Use four digits. The date outage started. Use four digits. The date outage started. Use YNY-MMA-OD format. Leave blank if unknown. Date of inspection. Use YNY-MMA-OD format. Leave blank for the outage started. Must be in the "hhummass" format. Date of inspection. Use YNY-MMA-OD format. Leave blank if unknown on one include time. Unique ID for the source substation feeding the circuit unique ID for the source substation feeding the circuit subsect of the outage state (ID) within a specific asset class. Foreign key to Substation within a specific asset class. Foreign key to Substation House of the Comman Substate (ID) within a specific asset class. Foreign key to Substation No. No. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset Do. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset. Do. Operating voltage (In kilovotts) associated with asset. Do. | submission? (Yes/ No) Yes in response to (PC-43900-2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to ince WMP specific data taxonomy. Data will still require translation to incertain the manufactor of the manufactor | timeframe 2021 WMP | No N |
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(Yes) No) Ves in response to (PC-43900-2-656) To no no no no no ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) | Data Currently Available in GIS format Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. 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| | | Outage Start Date | date | | The date outage started. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
|-----------------|--|--|---|---------------------|--|---|--|--|--|--|
| | 5 OutageStartTime | Outage Start Time | date | | The time outage started. Must be in the "hh:mm:ss" format. | Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 6 OutageEndDate | Outage End Date | date | | The date of full restoration. | Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 7 OutageEndTime | Outage End Time | date | | The time of full restoration. Must be in the "hh:mm:ss" format. | Yes in response to (PC-43900- 2-656) | | Data will still require translation to new WMP specific data taxonomy | | No |
| | 8 OutageDuration | Outage Duration | date | | The total time to restore all customers from the first | Yes in response to (PC-43900- | Data Currently Available in | Data will still require translation to | | |
| | 9 CMI | Total Customer-Minutes Interrupted | float | | customer out. Must be in the "hh:mm:ss" format. Total customer-minutes interrupted associated with the | 2-656) No | | new WMP specific data taxonomy Data will still require translation to | | No |
| | 10 CustomersOutMomentary | Customers Out Momentary | integer | | outage. Not more than two decimal places. Total number of unique customers that experienced an | No | GIS format Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 11 CustomersOutSustained | Customers Out Sustained | integer | | outage lasting 5 minutes or less. Total number of unique customers that experienced an | No | GIS format Data Currently Available in | new WMP specific data taxonomy Data will still require translation to | 2021 WMP | No |
| | 12 CustomerCount | Customer Count | integer | | outage lasting longer than 5 minutes. | No | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | 13 OutageInterval | Outage Interval | text(30) | Domain | The total number of customers impacted by the outage. Indication of whether the subject outage was momentary | / No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | (i.e. 5 minutes or less) or sustained (i.e. longer than 5 minutes). Possible values: Momentary | | Data Currently Available in | Data will still require translation to | | |
| | 14 AssociatedNominalVoltagekV | Associated Nominal Voltage (kV) | float | | Sustained Nominal voltage (in kilovolts) associated with asset. Do | No | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | 15 AssociatedOperatingVoltagekV | Associated Operating Voltage (kV) | float | | not use more than two decimal places. Enter "-99" if N/A. Operating voltage (in kilovolts) associated with asset. Do | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | | Other Companies | text(150) | | not use more than two decimal places. Enter "-99" if N/A. | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy Augmentation of introduction of | 2021 WMP ~2 years to implement | No |
| | to Otter Companies | Other Companies | text(130) | | | NO | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | 17 OutageClass | Outage Class | text(30) | | Affected companies from the event. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | 18 SubstationID | Substation ID | text(50) | FK | The class of circuit involved in the outage. Possible Values: Distribution Unique ID for the source substation feeding the circuit | | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 18 Substationio | Substation ID | text(50) | PK . | impacted by the outage. Must be traceable stable ID within a specific asset class. | Yes in response to (PC-43900- | | Data will still require translation to | | |
| | 19 RecloserSetting | Recloser Setting | text(30) | Domain | Foreign key to Substation table. If the subject circuit is equipped with reclosing capabilities, indicate whether the reclose function was | 2-656) | GIS format | new WMP specific data taxonomy | 2021 WMP | No |
| | | | | | enabled or disabled at the time of the outage. If the subject circuit is not equipped with reclosing capabilities assign N/A. Possible values: | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | Enabled Disabled | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | 20 IsolationDeviceType | Isolation Device Type | text(30) | Domain | N/A Type of protective device that operated. Possible values: | no | tools required | translate/export to GIS formats | complete) | No |
| | | | | | Circuit Breaker Fuse Lightning Arrestor | | | | | |
| | | | | | Switch Other – See comment | no | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 21 IsolationDeviceTypeComment | Isolation Device Type Comment | text(30) | | | | Data does not exist – | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | |
| | 22 BasicCause | Basic Cause | text(30) | Domain | Isolation device type description not listed in the options above. High-level category for event cause. Possible values: | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | | - | ., | | Object contact Equipment failure | | | | | |
| | | | | | Wire-to-wire contact Contamination Utility work/Operation | | | | | |
| | | | | | Vandalism/Theft Unknown Other – See comment. | Yes in response to (PC-43900- 2-656) | Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 23 BasicCauseComment | Basic Cause Comment | text(30) | | | | Data Currently Available in | Data will still require translation to | | |
| | 24 BasicCauseObject | Basic Cause Object | text(30) | Domain | Description of object involved in contact if "Object contact" is value of "BasicCause." Possible values: | no | GIS format | new WMP specific data taxonomy | ZUZI WMP | No |
| | | | | | Vegetation contact Animal contact Balloon contact | | | | | |
| | | | | | Vehicle contact - car pole Vehicle contact - aircraft | | | | | |
| | | | | | 3rd party contact (e.g. 3rd party tree trimmer) Unknown N/A | no | Data Currently Available in GIS format | | 2021 WMP | No |
| | 25 BasicCauseObjectComment | Basic Cause Object Comment | text(30) | | | | Data does not exist – | Augmentation of introduction of new data capture tools and processes to capture this | ~2 years to implement (1 year after data extraction and | |
| | | | | | Basic cause object description not listed in the options above. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | No |
| | 26 DamagedDevice | Damaged Device | text(30) | Domain | The device type that failed or experienced damage which initiated the outage. Possible Values: Anchor/guy | | | | | |
| | | | | | Capacitor bank Conductor Connector device | | | | | |
| | | | | | Crossarm Fuse | | | | | |
| | | | | | Insulator and bushing Lightning arrestor Pole | | | | | |
| | | | | | Recloser Relay Sectionalizer | | | | | |
| | | | | | Splice Switch | | | | | |
| | | | | | Tap Tie wire Transformer | | | | | |
| | | | | | Voltage regulator/ booster Unknown Other – See comment. | V ' 4- (95 43000 | Data Consorts & State to | Data will still require translation to | | |
| | 27 DamagedDeviceComment | Damaged Device Comment | text(30) | | N/A | 2-656) | GIS format | new WMP specific data taxonomy Augmentation of introduction of | 2021 WMP ~2 years to implement | No |
| | | | | | | | Data does not exist - | new data capture tools and | (1 year after data | |
| | | | | | Damaged device description not listed in the options | | Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | 28 ExpulsionFuseOperation | Expulsion Fuse Operation | text(3) | | above. Did an expulsion fuse operate during the outage? Enter | no | | information and then translate/export to GIS formats | translation work complete) | No |
| | 28 ExpulsionFuseOperation | Expulsion Fuse Operation | text(3) | | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuses. Possible values Yes | no | Changes to data capture tools required Data does not exist – | information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and processes to capture this | translation work complete) ~2 years to implement (1 year after data extraction and | No |
| | | | | | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuses. Possible values | no | Changes to data capture tools required | information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats | translation work complete) ~2 years to implement (1 year after data extraction and translation work complete) | No No |
| | | Expulsion Fuse Operation Outage Description | text(3) text(100) | | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuses. Possible values Yes No | | Changes to data capture tools required Data does not exist – Changes to data capture tools required Data does not exist – | information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and processes to capture this | translation work complete) ~2 years to implement (1 year after data extraction and translation work complete) ~2 years to implement (1 year after data extraction and | |
| | 29 OutageDescription | | | | above. Did an explusion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values test to the subject of the N/A is the subject of the N/A is th | | Changes to data capture tools required Data does not exist— Changes to data capture tools required | information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and processes to capture this information and then translate/export to GIS formats Augmentation of introduction of new data capture tools and | translation work complete) ~2 years to implement (1 year after data extraction and translation work complete) ~2 years to implement (1 year after data | |
| | 29 OutageDescription | Outage Description | text(100) | | above. Did an expulsion fluse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type force. Possible values 12 to 1 | no | Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture | information and then translate/export to GIS formats Augmentation of introduction of new data capture thois and processes to aspture this information and then translate/export to GIS formats Augmentation of introduction of new data capture thois and processes to aspture this information and then | translation work complete) ~2 years to implement (1 year after data extraction and translation work complete) ~2 years to implement (1 year after data extraction and translation work translation work | No |
| | 29 OutageDescription | Outage Description | text(100) | | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values 12 to 15 | no Yes in response to (PC-43900 | Changes to data capture tools required Data does not exist — Changes to data capture tools required Data does not exist — Changes to data capture tools required Data does not exist — Changes to data capture tools required | information and their translate/eport to GS formats Augmentation of introduction of new data capture tools and processes to capture this information and their translate/eport to GS formats Augmentation of introduction of the control of GS formats Augmentation of introduction of the control of GS formats to capture this into the control of GS formats to capture this into the control of GS formats translate/eport to GS formats Data will still require translation to | translation work complete) "2 years to implement [1 year after data extraction and extraction work complete) "2" years to implement [2" year after data extraction and translation work complete) | No |
| | 29 OutageDescription 30 MED | Outage Description | text(100) | | above. Do do an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fouse. Possible values to the subject of the | no Ves in response to (PC-43900-2-656) | Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture tools required Data Currently Available in Giff format Data Currently Available in Data Currently Available in Giff format | information and their translate/epoor to GIS formats Augmentation of introduction of new data capture tools and processes to capture this result of the capture this translate/epoor to GIS formats. Augmentation of introduction of new data capture tools and processes to capture this information and their translate/epoor to GIS formats. Data will still require translation to Data will still require translat | translation work complete) "2 years to implement (I year after data extraction and translation work "2" years to implement (I year after data extraction and translation work (I year after data extraction and translation work complete) | No No |
| | 29 OutageOescription 30 MED 31 SupplementalCause | Outage Description Major Event Day | text(100) text(3) | | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values 12 to 12 to 12 to 12 to 13 to 14 | no Yes in response to (PC-43900-2-555) | Changes to data capture tools required house of the capture tools required houses to data capture tools required Data does not exist—Changes to data capture tools required tools required Data does not exist—Changes to data capture tools required and the capture tools required Data Currently Available in GIS format | information and their translate/eport to GS formats Augmentation of introduction of men data capture to GS formats. Augmentation of introduction of men data capture to capture this information and term translate/eport to GS formats Augmentation of introduction of new data capture tools and processes to capture this information and then translate/eport to GS formats with the capture tools and processes to capture this information and then translate/eport to GS formats with the capture to GS formats and the capture to GS formats and the capture to GS formats with the capture to GS formats and GS formats with the capture to GS formats and GS | translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) | No |
| | 29 OutageOescription 30 MED 31 SupplementalCause | Outage Description Major Event Day Supplemental Cause | text(100) text(3) text(50) | | above. Do an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values No. N/A Description or additional information for the outage. If all outages on a certain date exceed a statistical limit called Major Event Day (MED), bits flag is set against concept associated with that day and psychiaty eculuded from certain types of reports. Possible values No. The supplemental cause of the outage. | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) | Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture tools required Data Currently Available in GIS format Data Currently Available in GIS format Data Green to exist— Changes to data capture | information and their translate/eport to GS formats Augmentation of introduction of new data capture tools and information and their translate/eport to GS formats Augmentation of introduction of new data capture tools and processes to explore this information and their translate/eport to GS formats with their control of the processes to explore this information and their translate/eport to GS formats with processes to explore the information and their translate/eport to GS formats and their control of the new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Data will still require translation to new WMP specific data taxonomy. Augmentation of introduction of new data capture for a translation of the new data capture for our way data processes to capture this information and then | translation work complete) "2 years to implement [1 year after data extraction and restraction and complete] "2 years to implement [2 year after data extraction and translation work complete] 2021 WMP 2021 WMP 2021 WMP 1 year sto implement [2 year after data extraction and translation work complete) | No No No |
| | 29 OutageOescription 30 MED 31 SupplementalCause | Outage Description Major Event Day Supplemental Cause | text(100) text(3) text(50) | Domain | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion fuse for the subject of the subject | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 | Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture tools required Data Currently Available in GIS format Data Currently Available in GIS format Data Currently Available in GIS format Data does not exist— | information and their translate/eport to GS formats translate/eport to GS formats Augmentation of introduction of them with a capture this information and their colors and processes to capture this information and their translate/eport to GS formats Augmentation of introduction of new data capture tools and information and then translate/eport to GS formats Data will still require translation to new WMP specific data taxonomy Data will still require translation to new WMP specific data taxonomy new data capture tools and processes to capture this | translation work complete) "2 years to implement (I year after data extraction and translation work complete) "2 years to implement extraction and translation work complete) "2 years to grade extraction and translation work complete) 2021 WMP 2021 WMP "2 years to implement (I year after data extraction and arter data extraction and arter data extraction and arter data extraction and extraction and extraction and | No No |
| | 29 OutageDescription 30 MED 31 SupplementalCause 32 SupplementalCauseDescription | Outage Description Major Event Day Supplemental Cause Supplemental Cause Description | text(100) text(3) text(50) text(100) | Domain | above. Did an expulsion fluse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type force. Possible values N/A if the subject circuit is not equipped with expulsion type force. Possible values N/A Description or additional information for the outage. If all outages on a certain date exceed a statistical limit called Mape Fewer Day (MED), bits flags is et against outages associated with that day and psycale) excluded from certain types of reports. Possible values Yes NO The supplemental cause of the outage. Please describe the supplemental cause of the outage. Please describe the supplemental cause of the outage. The CPUC high-fire threat district (HPTD) area the outage Text. Possible values: Text 2. Text 3. Text 2. Text 2. Text 2. Text 3. Text 2. Text 3. Text 3. Text 2. Text 3. Text 3. Text 3. Text 3. Text 3. Text 4. Text 5. Text 4. Text 5. Text 5. Text 4. Text 5. | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) no | Changes to data capture tools required Data does not exist— Changes to data capture tools required Data does not exist— Changes to data capture tools required Data Currently Available in GIS format | information and their translate/eport to GS formats translate/eport to GS formats Augmentation of introduction of them with a capture to the translate/eport to GS formats translate/eport to GS formats Augmentation of introduction of new data capture tools and information and then translate/eport to GS formats The translate/eport to GS formats translate/eport to GS formats | translation work complete) "2 years to implement (I year after data extraction and translation work "2" years to implement (I year after data extraction and translation work complete) "2021 WMP 2021 WMP 2021 WMP "2 years to implement (I year after data extraction and translation work complete) | No No No |
| | 29 OutageDescription 30 MED 31 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass | Outage Description Major Event Day Supplemental Cause Supplemental Cause Description | text(100) text(3) text(50) text(100) | Domain | above. Did an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion fuse for the subject of the subject | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 | Changes to date apture tools required tools require | information and their translate/eport to GS formats translate/eport to GS formats. Augmentation of instruction of more with a capture to the augmentation of instructions and processes to capture this information and their translate/eport to GS formats. Augmentation of instruction of new data capture tools and processes to capture this processes to capture this translate/eport to GS formats will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Augmentation of instruction of direct duction of more will specific data taxonomy. Augmentation of instruction of direct duction of more will specific data taxonomy than the control of th | translation work complete) "2 years to implement (I year after data extraction and translation work "2" years to implement (I year after data extraction and translation work complete) "2021 WMP 2021 WMP 2021 WMP "2 years to implement (I year after data extraction and translation work complete) | No No No |
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| | 29 OutageDescription 30 MED 31 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass 34 LocationOrAddress | Outage Description Major Event Day Supplemental Cause Supplemental Cause Description HFTD Class Location or Address | text(100) text(3) text(50) text(100) text(100) | Domain | above. Do do an expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fouse. Possible values N/A if the subject circuit is not equipped with expulsion type fouse. Possible values N/A Description or additional information for the outage. If all outages on a certain date exceed a statistical limit called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against called Maps (Event Day (MED), bits flig is set against the maps (MED). The supplemental cause of the outage. Please describe the supplemental cause of the outage. The CPUC (high-fire thread district (HFTD) area the outage intersects. Possible values: Ter 3 Ter 2 Ter 2 Ter 2 Ter 2 Ter 3 Ter 4 Ter 4 Ter 4 Ter 5 Ter 4 Ter 5 Ter 6 Ter 6 Ter 7 Ter 7 Ter 7 Ter 8 Ter 8 | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0 | Changes to date apture tools required house and east of the control required house and the control required house required house required house required house required house and the control required house and the cont | information and their translated report to GS formats translated report to GS formats Augmentation of introduction of report to GS formats to the control of the control of the control of the control of translated report to GS formats translated report to GS | translation work complete) -2 years to implement (1 year after data translation work complete) -2 years to implement (2 year after data translation work complete) -2 years to implement (1 year after data extraction and translation work complete) 2021 WMP -2 years to implement (1 year after data extraction and translation work complete) 2021 WMP 2021 WMP 2021 WMP | No No No |
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| Point Column | 29 OutageDescription 31 SupplementalCause 32 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass 34 LocationOrAddress 35 City 36 County 37 District 38 Latitude 39 Longitude Distribution VM Outage Fled Name 1 DvmOutageID 2 UtilityID 3 DoutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltagekV 10 AssociatedOperatingVoltagekV 11 TreeSpecies 12 TreeNeight 13 TreeDBH 14 TreeTrunkDistance 15 VmOutageDescription | Outage Description Major Event Day Supplemental Cause Supplemental Cause Supplemental Cause Supplemental Cause Description HFTD Class Location or Address City County District Latitude Longitude Alias VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID Associated Nominal Voltage (IV) Tree Species Tree Height (feet) Tree Diameter at Breast Height (Inches) Tree Trunk Distance (feet) | text[100] text[10] text[10] text[10] text[10] text[10] text[10] text[10] text[10] float float text[50] text[50] text[50] float text[50] int date text[50] float text[10] int text[10] int text[10] | Charateristic PK FK | above. 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Enter "99" if now the impacted power than two decimal places. Enter "99" if now the impacted power than two decimal pla | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) no no no no no no ves in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Data provided in latest submission? (Ves/No) Yes in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) Nes in response to (PC-43900-2-656) | Changes to data capture tools required Cools requir | information and their translation of introduction of any order translation of introduction and processes to capture this information and translation of introduction of new data capture tools formats. 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| Point Column | 29 OutageOescription 30 MED 31 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass 34 LocationOrAddress 35 City 36 County 37 District 38 Latitude 39 Longitude Distribution YM Outage Field Name 1 DomOutageID 2 UtilityID 3 DoutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltagekV 10 AssociatedNominalVoltagekV 11 TreeSpecies 12 TreeHeight 13 TreeDBH 14 TreeTrunkDistance 15 VmOutageOescription 16 HFTDClass | Outage Description Major Event Day Supplemental Cause Supplemental Cause Supplemental Cause Description NETD Class Location or Address City County District Latitude Longitude Alias VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID Associated Nominal Voltage (kV) Associated Operating Voltage (kV) Tree Species Tree Height (feet) Tree Diameter at Breast Height (inches) Tree Trunk Distance (feet) VM Outage Description | text[100] text[20] text[20] text[20] text[100] text[20] text[20] text[50] int date text[50] float text[50] int text[10] text[10] text[10] text[10] | Charateristic PK FK | above. Do an equision fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values: N/A The subject circuit is not equipped with expulsion type fuse. Possible values: N/A Description or additional information for the outage. If all outages on a certain date occeed a statistical limit called Major Event Day (MED), bits flig is set against codinge associated with that day and psycholecthol from certain types of reports. Possible values on outage associated with that day and psycholecthol from certain types of reports. Possible values on the country of | no Yes in response to (PC-43900-2-656) No | Changes to data capture tools required format does not exist—Changes to data capture tools required and control required format does not exist—Changes to data capture tools required format does not exist—Changes to data capture tools required does not exist—Changes to data capture tools required does not exist—Changes to data capture tools required format does not exist—Changes to data capture tools required does not exist—Changes to data capture tools required does not exist—Changes to data capture tools required format. Data Currently Available in GiS format. Data Goes not exist—Changes to data capture tools required Data does not exist—Changes to data capture tools required Data Goes not exist—Changes to data capture tools required Data Goes not exist—Changes to data capture tools required Data Goes not exist—Changes to data capture tools required Data Goes not exist—Gis format. Data Currently Available in GiS format. Data Currently Available in GiS format. Data Goes not exist—Changes to data capture tools required Data Goes not exist—Gis format. | information and their translation for introduction of more watter appare to capture this information and their translation of introduction of more with an appare to capture this information and their translatic appare to capture their information and their translatic appare to capture their information and their translatic appare to capture to captur | translation work complete) "2 years to implement (1 year after data translation work complete) "2 years to implement (2 year after data translation work complete) "2 years to implement (1 year after data extraction and translation work complete) 2021 WMP 2021 W | No N |
| Point Column | 29 OutageDescription 30 MED 31 SupplementalCause 32 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass 34 LocationOrAddress 35 City 36 County 37 District 38 Latitude 39 Longitude District 30 Longitude District 30 Longitude District 31 DemOutageID 2 UtilityID 3 DoutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltagetV 10 AssociatedOperatingVoltagetV 11 TreeSpecies 12 TreeHeight 13 TreeDBH 14 TreeTrunkOistance 15 VmOutageDescription 16 HFTDClass 17 LocationOrAddress 18 City | Outage Description Major Event Day Supplemental Cause Supplemental Cause Supplemental Cause Description HFTD Class Location or Address City Gounty District Latitude Longitude Milas VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID Associated Nominal Voltage (IV) Associated Operating Voltage (IV) Tree Species Tree Height (feet) Tree Trunk Distance (feet) VM Outage Description HFTD Class Location or Address | text[100] text[30] text[30] text[100] text[100] text[100] text[100] text[50] text[50] text[50] text[50] text[50] text[50] text[50] text[50] text[50] int date text[50] float text[50] int text[10] text[10] text[10] text[10] | Charateristic PK FK | above. Do Can expulsion fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion type fuse. Possible values: No. N/A Description or additional information for the outage. If all outages on a certain date occed a statistical limit called Major Event Day (MED), bits flig is set against codinge associated with that day and typically excluded from cettain pipes of reports. Possible values: No. The supplemental cause of the outage. Please describe the supplemental cause of the outage. The supplemental cause of the outage. Please describe the supplemental cause of the outage interrects. Possible values: No. The supplemental cause of the outage interrects. Possible values: The CPUC high-fire threat district (HFTD) area the outage interrects. Possible values: The Third outage interrects. Possible values: The CPUC high-fire threat district (HFTD) area the outage interrects. Possible values: The Third outage interrects. Possible values: The Third outage out to contage caused by vegetation. Primary key for the Distribution WM Outages table. Description The unique of for outage caused by vegetation. Primary key for the Distribution WM Outages table. The vegetage table outage that the distribution outages table. The vegetage table outage that the distribution outages table. The vegetage table outage that the bits of the "Third moutage" outage that the translated with a specific asset class. Foreigh eye to Substation table. Nonmail voltage (in kilovotts) associated with asset. Do not use more than two decimal places. Enter "99" if now this apperich asset loss Foreigh eye Substation table. Nonmail voltage (in kilovotts) associated with asset. Do not use more than two decimal places. Enter "99" if now this apperich asset class. Foreigh eye Substation table. Nonmail voltage (in kilovotts) associated with asset. Do not use more than two decimal places. Enter "99" if now the impacted power than two decimal places. Enter "99" if now the impacted power than two decimal pla | no Yes in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) no no no no no no ves in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Data provided in latest submission? (Ves/No) Yes in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Ves in response to (PC-43900-2-656) Yes in response to (PC-43900-2-656) Nes in response to (PC-43900-2-656) | Changes to data capture tools required colors | information and their translation of introduction of more with a capitar to Ga Sformats. Againeration of introduction of more with an apparent of the stranslation of introduction of more with a capitar to Ga Sformats. Againeration of introduction of new data capitar to Ga Sformats. Againeration of introduction of new data capitar to Ga Sformats and the second of the second o | translation work complete) "2 years to implement (1 year after data of the complete) "2 years to implement (1 year after data of the complete) "2 years to implement (1 year after data extraction and translation work complete) "2021 WMP 2021 WMP | No N |
| Point Column | 29 OutageDescription 30 MED 31 SupplementalCause 32 SupplementalCause 32 SupplementalCauseDescription 33 HFTDClass 34 LocationOrAddress 35 City 36 County 37 District 38 Latitude 39 Longitude Districtured Name 1 DymOutageID 2 UtilityID 3 DoutageID 4 EventYear 5 DateOut 6 TimeOut 7 InspectionDate 8 SubstationID 9 AssociatedNominalVoltagetV 10 AssociatedOperatingVoltagekV 11 TreeSpecies 12 TreeHeight 13 TreeDBH 14 TreeTrunkOistance 15 VmOutageDescription 16 HFTDClass 17 LocationOrAddress 18 City | Outage Description Major Event Day Supplemental Cause Supplemental Cause Supplemental Cause Description HFTD Class Location or Address City County District Latitude Longitude Alias VM Outage ID Utility ID Outage ID Event Year Date Out Time Out Inspection Date Substation ID Associated Operating Vortage (IV) Tree Species Tree Height (Feet) Tree Clameter at Breast Height (Inches) Tree Trunk Distance (Feet) VM Outage Description HFTD Class Location or Address City | text(100) text(10) text(10) text(100) text(100) text(100) text(100) text(100) float float text(50) text(50) text(50) float text(50) text(10) text(100) text(100) text(100) text(100) text(100) text(100) | Charateristic PK FK | above. Do an equision fuse operate during the outage? Enter N/A if the subject circuit is not equipped with expulsion fuse for the subject of the subject tree involved in causing the outage succeed with subject of the subject tree involved in causing the outage subject with subject of the subject tree involved in causing the subject tree outage subject with subject of the subject of the subject tree involved in causing the subject of the subject tree involved in causing the subject of the subject of the subject tree involved in causing the subject of the subject tree involved in causing the outage started. Use from digits. The date outage started. Use from digits and the date of the subject tree involved in causing the ou | no Yes in response to (PC-43900-2-656) No | Changes to date appure tools required colors format colors format colors required colors format colors required colors require | information and their translation for introduction and processes to capture this information and their translation of introduction and processes to capture this information and their translate/eport to GIS formats. Augmentation of introduction of new data capture tools and processes to capture this information and their translate/eport to GIS formats. The capture tools and protection of proteomic to appear to the capture tools and proteomic to appear to the capture tools and proteomic tools and proteomic tools and proteomic tools and their translate/eport to GIS formats. The capture translation on new WMF specific data taxonomy all their translation of the capture tools and proteomic tools and their translation of the capture tools and proteomic tools and their translation of the capture translation on new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation to new WMF specific data taxonomy. Data will still require translation of new WMF specific data taxonomy. Data will still require translation of new WMF specific data taxonomy. Data will still require translation of new WMF specific data tax | translation work complete) 12 years to implement earlier and the service of the | No N |

| | 20 District | District | text(100) | | Operating district where the VM outage occurred. | Yes in response to (PC-43900 2-656) | - Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
|--------|------------------------------------|---------------------------|-----------|---------------|--|--|--|--|---|------------------------|
| | 21 Latitude 22 Longitude | Latitude | float | | Latitude of event point in decimal degrees. | Yes in response to (PC-43900 2-656) | - Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| | 22 Longitude | Longitude | noat | | Longitude of event point in decimal degrees. | Yes in response to (PC-43900 2-656) | - Data Currently Available in GIS format | Data will still require translation to new WMP specific data taxonomy | 2021 WMP | No |
| Table | Risk Event Asset Log | | | | | | | | | |
| Column | Field Name | Alias | Data Type | Charateristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 RealD | Equipment Failure ID | text(50) | PK | | ,, | | Augmentation of introduction of | ~2 years to implement | |
| | | | | | | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | The unique ID for the associated asset. Primary key for | | Changes to data capture | information and then | translation work | |
| | 2 WireDownID | Wire Down ID | text(50) | FK | the Risk Event Asset Log table. | no | tools required | translate/export to GIS formats Augmentation of introduction of | complete) ~2 years to implement | Yes |
| | 2 WireDownID | Wire Down ID | text(50) | FK | | | | new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | Foreign key to the Wire Down Event table. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 3 FromDevice | From Device | text(50) | FK | The AssetID of the upstream structure supporting the | | | Augmentation of introduction of | ~2 years to implement | |
| | | | | | conductor involved in the wire down event. Enter multiple IDs if multiple upstream structures are in the | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | same location. Foreign key to all the associated asset | | Changes to data capture | information and then | translation work | |
| | 4 ToDevice | To Device | text(50) | FK | point tables. The AssetID of the downstream structure(s) supporting | no | tools required | translate/export to GIS formats Augmentation of introduction of | complete) ~2 years to implement | Yes |
| | 4 ToDevice | To Device | text(50) | FK | the conductor involved in the wire down event. Enter | | | new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | multiple IDs if multiple downstream structures are in the | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | same location. Foreign key to all the associated asset point tables. | 20 | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 5 IgnitionID | Ignition ID | text(50) | FK | poriti causes. | 110 | toois required | Augmentation of introduction of | ~2 years to implement | 103 |
| | | | | | | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | | | Changes to data capture | information and then | translation work | |
| | 6 StationID | Station ID | text(50) | FK | Foreign key to the Ignition table. Unique ID for the nearest weather station to the ignition | no | tools required | translate/export to GIS formats Augmentation of introduction of | complete) ~2 years to implement | Yes |
| | 6 Stationio | Station ID | text(50) | PK | location. Enter multiple IDs if multiple stations are in the | | | new data capture tools and | (1 year after data | |
| | | | | | same location. Must be traceable stable ID within a weather station. Foreign key to the Weather Station | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | | | | | table. | no | tools required | translate/export to GIS formats | complete) | Yes |
| | 7 ToutageID | Transmission Outage ID | text(50) | FK | | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | | | Data does not exist - | processes to capture this | extraction and | |
| | | | | | Foreign key to the Transmission Outages table. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 8 TvmOutageID | Transmission VM Outage ID | text(50) | FK | Toreign key to the Hallamason outages table. | 110 | toois required | Augmentation of introduction of | ~2 years to implement | 103 |
| | | | | | The unique ID for outage caused by vegetation. Foreign | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | key to the Transmission Vegetation Management Outage | | Changes to data capture | information and then | translation work | |
| | 9 DoutageID | Distribution Outage ID | text(50) | FK | table. | no | tools required | translate/export to GIS formats Augmentation of introduction of | complete) ~2 years to implement | Yes |
| | 5 Doutageio | Distribution Gutage ID | text(30) | rk. | | | | new data capture tools and | (1 year after data | |
| | | | | | | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | | | | | Foreign key to the Distribution Outages table. | no | tools required | translate/export to GIS formats | complete) | Yes |
| | 10 DvmOutageID | Distribution VM Outage ID | text(50) | FK | | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | The unique ID for outage caused by vegetation. Foreign | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | key to the Distribution Vegetation Management Outage table. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 11 IsolationDeviceID | Isolation Device ID | text(50) | FK | | | | Augmentation of introduction of | ~2 years to implement | |
| | | | | | The AssetID of the device that operated to de-energize the circuit for an outage event. Should be traceable | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | within a specific asset class. Foreign key to all the associated asset point tables. | 00 | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | |
| | 12 DamagedDeviceID | Damaged Device ID | text(50) | FK | associated asset point tables. | no | tools required | Augmentation of introduction of | ~2 years to implement | Yes |
| | | | | | The AssetID of the device that failed or experienced damage which initiated the | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | outage. Should be traceable within a specific asset class. | | Changes to data capture | information and then | translation work | |
| | 42.4 | AAID | | FK | Foreign key to all the associated asset point tables. | no | tools required | translate/export to GIS formats Augmentation of introduction of | complete) ~2 years to implement | Yes |
| | 13 AssetID | Asset ID | text(50) | PK | | | | new data capture tools and | (1 year after data | |
| | | | | | Unique ID for asset point tables. Must be traceable stable ID within a specific asset class. Foreign key to all the | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | | | | | associated asset point tables. | no | tools required | translate/export to GIS formats | complete) | Yes |
| | 14 CircuitID | Circuit ID | text(50) | FK | | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | Unique ID for the specific circuit impacted by a risk event. Must be traceable stable ID within a specific asset class. | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | Must be traceable stable ID within a specific asset class. Foreign key to all the associated asset tables. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 15 SubstationID | Substation ID | text(50) | FK | | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | Unique ID for the source substation feeding the circuit | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | impacted by the outage. Must be traceable stable ID within a substation. Foreign key to the Substation table. | | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | | | | | within a substation. Foreign key to the substation table. | 110 | toois required | translate/export to dis iorinats | complete | ies |
| Table | Risk Event Photo Log Field Name | Δlias | Data Tyne | Charateristic | Description | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | |
| | 1 PhotoID | Photo ID | text(100) | PK | Illustration of the initiative or inspection activity. Primary | submission? (Yes/ No) | | , | timeframe | Confidential? (Yes/No) |
| | 1 PhotoiD | Photo ID | text(100) | PK | key for the Risk Event Photo Log table. Photo format: | | | | | |
| | | | | | Geotagged JPEG or PNG. Use format | | | Augmentation of introduction of | ~2 years to implement | |
| | | | | | UtilityName_DistrictID_InspectorInitial_RiskEvent_YYYY MMDD_PhotoNumber. For example, | | | new data capture tools and | (1 year after data | |
| | | | | | "UtilityG&E_AB_Ignition_20200703_1.png". If more than one photo is taken, enter additional photo IDs with the | | Data does not exist – Changes to data capture | processes to capture this information and then | extraction and translation work | |
| | | | | | one photo is taken, enter additional photo IDs with the duplicate risk event ID. | no | Changes to data capture tools required | translate/export to GIS formats | complete) | Yes |
| | 2 IgnitionID | Ignition ID | text(50) | FK | | | | Augmentation of introduction of new data capture tools and | ~2 years to implement (1 year after data | |
| | | | | | "UtilityG&E_AB_Ignition_20200703_1.png". If more than | | Data does not exist – | processes to capture this | extraction and | |
| | | | | | one photo is taken, enter additional photo IDs with the duplicate risk event ID. | no | Changes to data capture tools required | information and then translate/export to GIS formats | translation work complete) | Yes |
| | 3 WireDownID | Wire Down ID | text(50) | FK | | - | | Augmentation of introduction of | ~2 years to implement | |
| | | | | | | | Data does not exist – | new data capture tools and processes to capture this | (1 year after data extraction and | |
| | | | | | | | Changes to data capture | information and then | translation work | |
| | | | | | Foreign key to the Wire Down Event table. | no | tools required | translate/export to GIS formats | complete) | Yes |
| | | | | | | | | | | |

| Γable | Vegetation Management | WSD Data Schemas | | | | | | | | |
|-------|---|---|-----------------------|---------------------|---|--|--|--|---|----------------------------------|
| mn | Vegetation Management Inspection Log Field Name | Alias | | Charateristic | Description | submission? (Yes/ No) | Availability Explanations | Data procurement actions | timeframe | Confidential? (Yes/No) |
| | 1 VmiLogID | VMI Log ID | text(50) | PK FK | Unique ID or job ID of a vegetation management inspection activity. Primary key for the Vegetation Management Inspection Log table. | No No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | |
| | 2 VmpLogID 3 InspectionDate | VMP Log ID Inspection Date | date | PK . | Unique ID or job ID of a vegetation management project resulting from a vegetation management inspection. A Foreign key to the Vegetation Management Project table. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes Yes |
| | 4 InpsectorName | Inpsector Name | text(50) | | The date when a vegetation management inspection was or will be conducted. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| | 5 InspectionType | Inspection Type | text(30) | Domain | Inspector performing the vegetation management inspection. Initiative activities related to the vegetation management project which include, | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Assessing trees with the potential to strike Clearances—routine Clearances—enhanced Hazard trees Tree mortality | | | and extraction process | (Prepared for 2022 WMP) | |
| | 6 InspectionTypeComment | Inspection Type Comment | text(30) | | Other – See comment | No | Data exists but not in GIS format | Requires data translation | | Yes |
| | 7 InspectionStatus | Inspection Status | text(30) | Domain | Inspection type description not listed in the options above. The status of the initiative activity related to the vegetation inspection project which | No | Data exists but not in GIS format | and extraction process Requires data translation | | Yes |
| | | | | | include, Planned In-progress Complete | | | and extraction process | (Prepared for 2022 WMP) | |
| | 8 InspectionQA | Inspection QA | text(3) | Domain | Has the inspection been checked for quality assurance? Possible values: Yes No | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 9 TreeTrimmingCount | Tree Trimming Count | integer | | | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processe | ~2 years to implement (1 year after data s extraction and translation | Yes |
| | | | | | The number of trees identified for trimming from the vegetation management | | | to capture this information and then translate/export to GIS formats | | |
| 1 | 0 TreeTrimmingAcreage | Tree Trimming Acreage | float | | inspection. | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processe to capture this information | extraction and translation | Yes |
| | | | | | The acreage of trees identified for trimming from the vegetation management inspection. Two decimal places | | | and then translate/export to GIS formats | | |
| | 1 InspectionComment | Inspection Comment | text(100) | | Additional comments regarding the vegetation inspection project. | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes |
| 1 | 2 InspectionMethod | Inspection Method | text(100) | Domain | The method(s) by which the asset inspection was conducted. Possible values: Drive by Walk out Aerial – drone Aerial – helicopter | No | Data does not exist – Changes to data capture tools required | introduction of new data capture tools and processe to capture this information and then translate/export | extraction and translation | Yes |
| | 3 InspectionMethodComment | Inspection Method Comment | text(50) | | Remote sensing – Infrared/Thermal Remote sensing – LIDAR Other – See comment. | No | Data does not exist – Changes to | to GIS formats Augmentation of | ~2 years to implement | Yes |
| 1 | gccconimeuroucomment | gocanal intentiod Comment | text(SU) | | | NÓ | Data does not exist – Changes to data capture tools required | introduction of new data capture tools and processe to capture this information and then translate/export | (1 year after data s extraction and translation | |
| 1 | 4 InspectionTechnology | Inspection Technology | text(30) | Domain | Inspection method description not listed in the options above. The technology that an inspector uses for the vegetation management inspection. Possible values: | No | Data does not exist – Changes to data capture tools required | to GIS formats Augmentation of introduction of new data | ~2 years to implement | Yes |
| | | | | | Collector for ArcGIS Survey123 for ArcGIS Workforce for ArcGIS ArcGIS QuickCapture | | vaca capture tools required | introduction of new data capture tools and processe to capture this information and then translate/export to GIS formats | extraction and translation | |
| 1 | 5 InspectionTechnologyComment | Inspection Technology Comment | text(30) | | Other – See comment None | No | Data does not exist – Changes to | Augmentation of | ~2 years to implement | Yes |
| | | | | | | | data capture tools required | introduction of new data capture tools and processe to capture this information and then translate/export | s extraction and translation | |
| | | | | | Inspection technology description not listed in the options above. | | | and then translate/export to GIS formats | | |
| | Vegetation Management Inspection Point Field Name | Alias | Data Type | Charateristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | | Confidential? (Yes/No) |
| | 1 VmilD | VMI ID | text(50) | PK | Unique ID or job ID of a vegetation management inspection activity. Primary key for the Vegetation Management Inspection Point table. | No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 2 UtilityID | Utility ID | text(10) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 3 VmiLogID | VMI Log ID | text(50) | FK | Unique ID or job ID of a vegetation management inspection activity. Foreign key to the Vegetation Management Inspection Log table. | | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 4 InspectionLocationOrAddress 5 ParcelAPN | Inspection Location Or Address Parcel APN | text(100) | | Address or location description for the inspection location. | No No | Data exists but not in GIS format Data does not exist – inventory | and extraction process | ~1 year to implement (Prepared for 2022 WMP) ~2 years to implement | |
| | | | (CAU[17] | | | UNI | Data does not exist – inventory required | system consistent with dat requirements would be required following | | |
| | 5 Tarabla M | To the P | | | Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. Use the format: ################. For example, 006-0144-029-0000. | | 200 | completion of data translation and extraction process | | V |
| | 6 TreeHealth | Tree Health | text(3) | Domain | | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processe | s extraction and translation | Yes |
| | | | | | Is the tree healthy? Possible values: Yes No | | | to capture this information and then translate/export to GIS formats | work complete) | |
| | 7 TreeSpecies | Tree Species | text(100) | | | No | Data does not exist – inventory required | Physical inventory of system consistent with dat requirements would be | ~2 years to implement a (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data translation and extraction | extraction and translation work complete) | |
| | 8 TreeHeight | Tree Height (feet) | int | | Common name for species of tree. | No | Data does not exist – inventory required | translation and extraction process Physical inventory of system consistent with dat | | Yes |
| | | | | | | | | requirements would be required following completion of data | a (1 year after data extraction and translation work complete) | |
| | 9 TreeDiameter | Tree Diameter (Inches) | int | | Tree height (feet). Round the value. | No | Data does not exist – inventory | translation and extraction process Physical inventory of | | Yes |
| | | | | | | | required | system consistent with dat requirements would be required following | a (1 year after data extraction and translation work complete) | |
| | O HETDClare | HETD Clare | gyment. | Dem** | Tree diameter at breast height (inches). Round the value. The CPLIC high-fire threat district (HETD) area the management inspection intersects. | 80. | Data guide historia | completion of data translation and extraction process | | Vas |
| 1 | 0 HFTDClass | HFTD Class | text(10) | Domain | The CPUC high-fire threat district (HFTD) area the management inspection intersects. Possible values: Tier 3 Tier 2 | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 1 City | Gitv | text(50) | | Tier 2 Zone 1 Non-HFTD | No | Data exists but not in GIS format | Requires data transfer | ~1 year to implement | Yes |
| | 1 City 2 County | County | text(50) | | City in where the vegetation management inspection is located. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes |
| | 2 County 3 District | District | text(50) | | County in where the vegetation management inspection is located. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 4 Latitude | Latitude | float | | Operating district where the vegetation management inspection occurred. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 5 Longitude | Longitude | float | | Latitude of event point in decimal degrees | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | |
| | | | | | P | | | and extraction process | (Prepared for 2022 WMP) | |
| n | Vegetation Management Inspection Line Field Name 1 VmilD | Alias | Data Type text(50) | Charateristic | Description | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data exists but not in GIS format | Data procurement actions | Estimated delivery timefra | aConfidential? (Yes |
| | 1 VmilD 2 UtilityID | VMI ID Utility ID | text(50) | FK | Unique ID or job ID of a vegetation management inspection activity. Primary key for the Vegetation Management Inspection Line table. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 2 UtilityID 3 VmiLogID | Utility ID VMI Log ID | text(10) | FK | $Standardized\ identification\ name\ of\ the\ utility\ ("UtilityG\&E,"\ etc.).$ | No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes Yes |
| | 4 InspectionLocationOrAddress | Inspection Location Or Address | text(50) | | Unique ID or job ID of a vegetation management inspection activity. Foreign key to the Vegetation Management Inspection Log table. | | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 5 HFTDClass | HFTD Class | text(100) | Domain | Address or location description for the inspection location. The CPUC high-fire threat district (HFTD) area the management inspection intersects. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Possible values: Tier 3 Tier 2 | | | and extraction process | (Prepared for 2022 WMP) | |
| | 6 HFTDClassComment | HFTDClassComment | text(50) | | Zone 1 Non-HFTD | No | Data exists but not in GIS format | Requires data translation | | Yes |
| | 7 City | City | text(50) | | If the project line intersects multiple HFTD areas, list all of them here. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 8 County | County | text(50) | | City in where the vegetation management inspection is located. | No | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 9 District | District | text(100) | | County in where the vegetation management inspection is located. | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | Vegetation Management Inspection Polygon | | | | Operating district where the vegetation management inspection occurred. | | | | | |
| 1 | Field Name 1 VmiID | Alias VMI ID | Data Type text(50) | Property PK | Description | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data exists but not in GIS format | | timeframe ~1 year to implement | Confidential? (Yes/No) Yes |
| | 2 UtilityID | Utility ID | text(10) | | Unique ID or job ID of a vegetation management inspection activity. Primary key for the Vegetation Management Inspection Polygon table. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 3 VmiLogID | VMI LogID | text(50) | FK | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 4 InspectionLocationOrAddress | Inspection Location Or Address | text(100) | | Unique ID or job ID of a vegetation management inspection activity. Foreign key to the Vegetation Management Inspection Log table. | No | Data exists but not in GIS format | | | Yes |
| | 5 HFTDClass | HFTD Class | text(10) | Domain | Address or location description for the inspection location. The CPUC high-fire threat district (HFTD) area the management inspection intersects. Possible values: | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Possible values: Tier 3 Tier 2 Zone 1 | | | and extraction process | , repared for 2022 WMP) | |
| | 6 HFTDClassComment | HFTDClassComment | text(50) | | Non-HFTD | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 City | City | text(50) | | If the project line intersects multiple HFTD areas, list all of them here. | No | Data exists but not in GIS format | | , | Yes |
| | 8 County | County | text(50) | | City in where the vegetation management inspection is located. | No | Data exists but not in GIS format | | , | Yes |
| | 9 District | District | text(100) | | County in where the vegetation management inspection is located. | No | Data exists but not in GIS format | | | Yes |
| | Vegetation Management Project Log | Alias | | · · · · | Operating district where the vegetation management inspection occurred. | Data | Availab *** | Data | | |
| 1 | Field Name 1 VmpLogID | Alias VMP Log ID | Data Type text(50) | Charateristic PK | Description Unique ID or ioh ID of an initiative Primary key for Vegetation Management Project | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data exists but not in GIS format | Data procurement actions Requires data translation and extraction process | timeframe ~1 year to implement | Confidential? (Yes/No) Yes |
| | 2 DateStart | Date Start | date | | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Log table. The start date of the vegetation management project. Use YYYY-MM-DD format. Leave | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 3 DateEnd | Date End | date | | blank if unknown. Do not include time. The completion date of the vegetation management project. Use YYYY-MM-DD format | No | Data exists but not in GIS format | | | Yes |
| | 4 VmpStatus | Vegetation Management Project Status | text(30) | Domain | Leave blank if unknown. Do not include time. Status of the vegetation management project. Possible Values: | No | Data exists but not in GIS format | Requires data translation | ~1 year to implement | Yes |
| | | | | | Complete | | | and extraction process | (Prepared for 2022 WMP) | |

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No Data exists but not in GS format Requires data translation and extraction process
Additional comments regarding the status of the vegetation management project.

No Data exists but not in GS format Requires data translation and extraction process
No Data exists but not in GS format Requires data translation "1 year to implement Ves and extraction process" (Prepared for 2022 WMP)

Name of the person in charge for the vegetation management project.

| 7 CoastalRedwoodExemption | Coastal Redwood Exemption | text(3) | Domain | | No | Data does not exist – Changes to data capture tools required | introduction of new data capture tools and processes | extraction and translation | |
|--|--|---|--------------------------------------|---|--|--|--|--|---|
| | | | | Coastal redwood exception to clearance being applied. Possible values: Yes No | | | to capture this information and then translate/export to GIS formats | work complete) | |
| 8 EncroachPermit | Encroach Permit | text(3) | Domain | | No | Data does not exist – Changes to data capture tools required | introduction of new data capture tools and processes | extraction and translation | |
| | | | | Is an encroachment permit required for the vegetation management project? Possible values: Yes No | | | to capture this information and then translate/export to GIS formats | work complete) | |
| 9 EnvPermit | Environmental Permit | text(3) | Domain | is special environmental permitting needed for the vegetation management project? | No | | Augmentation of introduction of new data capture tools and processes to capture this information | extraction and translation | |
| | | | | Possible values: Yes No | | | and then translate/export to GIS formats | | |
| 10 EnvPermitProject 11 EnvPermitDocumentation | Environmental Permit Project Environmental Permit Documentation | text(100) | | Specific activity (e.g., timber harvest under an exemption) for which a permit was obtained. Include any key details about environmental permit documentation and project ID | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | |
| | | | | numbers. For example, when the permitted project is timber harvest under an exemption, this field must include the harvest document number of the exemption (e.g., 2-20EX-01049-BUT). | | | and extraction process | (Prepared for 2022 WMP) | |
| 12 BMPApply | Best Management Practice Apply | text(3) | Domain | Do best management practices apply for the vegetation management project? Possible values: Yes No | . No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | |
| 13 АММАрріу | Avoidance and Minimization Measures Apply | text(3) | Domain | Do avoidance and minimization measures apply to the vegetation management project? Possible values: Yes No | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 14 WoodManagement | Wood Management | text(3) | Domain | NO Is wood management needed for the vegetation management project? Possible values: Yes | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 15 WoodManagementComments | Wood Management Comments | text(100) | | No Additional comments regarding wood management needs for the vegetation management project. | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | |
| 16 LandDesignation | Land Designation | text(50) | Domain | The assigned designation of the land where the subject vegetation management project is scheduled. Possible values: Local Responsibility Area (LPA) | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | |
| 17 RiparianArea | Riparian Area | text(3) | Domain | State Responsibility Area (SRA) Federal Responsibility Area (FRA) | No | Data does not exist – inventory required | Physical inventory of system consistent with data | ~2 years to implement (1 year after data | Yes |
| | | | | is the vegetation management project located in a riparian area? Possible values: | | | requirements would be required following completion of data | extraction and translation work complete) | |
| 18 CaltransProp | Caltrans Property | text(3) | Domain | No . | No | | system consistent with data | (1 year after data | Yes |
| | | | | Is the vegetation management project located on Caltrans property? Possible values: Yes | | | requirements would be required following completion of data translation and extraction | extraction and translation work complete) | |
| 19 ProjectCategory | Project Category | text(50) | Domain | No High-level category describing the nature of the vegetation management project. Possible values: | No | Data does not exist – Changes to data capture tools required | process | ~2 years to implement (1 year after data | Yes |
| | | | | Tree trimming Tree removal Fuel management Assessing trees with the potential to strike | | | capture tools and processes to capture this information and then translate/export to GIS formats | | |
| 20 ProjectCategoryComment | Project Category Comment | text(50) | | Other – See comment. | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data | ~2 years to implement (1 year after data | |
| | | | | | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | |
| 21 TreeTrimCount | Tree Trim Count | integer | | Project category description not listed in the options above. | No | Data does not exist – Changes to | Augmentation of introduction of new data | ~2 years to implement (1 year after data | |
| | | | | | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation | |
| 22 TreeTrimAcreage | Tree Trim Acreage | float | | Number of trees listed for trimming in the vegetation management project. | No | Data does not exist – Changes to data capture tools required | | ~2 years to implement (1 year after data | Yes |
| | | | | Acreage of trees listed for trimming in the vegetation management project. Two | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation | |
| 23 TreeRemovalCount | Tree Removal Count | integer | | Acreage of trees listed for frimming in the vegetation management project. I wo decimal places | No | Data does not exist – Changes to | | ~2 years to implement (1 year after data | Yes |
| | | | | | | | capture tools and processes to capture this information and then translate/export to GIS formats | | |
| 24 TreeRemovalAcreage | Tree Removal Acreage | float | | Number of trees listed for removal in the vegetation management project. | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data | | |
| | | | | Acreage of trees listed for removal in the vegetation management project. Two | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | |
| 25 TreeTrimCountActl | Tree Trim Count Actually | integer | | decimal places | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data | | |
| | | | | | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | |
| 26 TreeTrimAcreageActl | Tree Trim Acreage Actually | float | | Number of trees actually trimmed as part of the vegetation management project. | No | Data does not exist – Changes to data capture tools required | | ~2 years to implement (1 year after data | Yes |
| | | | | Acreage of trees actually trimmed as part of the in the vegetation management | | | capture tools and processes to capture this information and then translate/export to GIS formats | | |
| 27 TreeRemovalCountActi | Tree Removal Count Actually | integer | | project. Two decimal places | No | Data does not exist – Changes to | Augmentation of introduction of new data | ~2 years to implement (1 year after data | |
| | | | | | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | |
| 28 TreeRemovalAcreageActI | Tree Removal Acreage Actually | float | | Number of trees actually removed as part of the vegetation management project. | No | Data does not exist – Changes to | Augmentation of introduction of new data | ~2 years to implement (1 year after data | |
| | | | | Acreage of trees actually removed as part of the vegetation management project. Two | | | capture tools and processes to capture this information and then translate/export to GIS formats | extraction and translation work complete) | |
| 29 VegetationTreatmentType | Vegetation Treatment Type | text(50) | Domain | decimal places The type(s) of treatment scoped into the vegetation management project. Possible values: Radial clearance – standard | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processes | ~2 years to implement (1 year after data | |
| | | | | Radial clearance - enhanced Overhang clearing Tree removal – hazard tree | | | to capture this information and then translate/export to GIS formats | work complete) | |
| | | | | Tree removal – tree mortality Tree trimming Pole brushing Fire break creation | | | | | |
| 30 VegetationTreatmentTypeComment | Vegetation Treatment Type Comment | text(50) | | Brush clearance Other or multiple treatment types – See comment. | No | Data exists but not in GIS format | | | Yes |
| 31 DescriptionOfWork | Description Of Work | text(100) | | Treatment type not listed in options above—or multiple treatment types listed in options above. If multiple, list all separated by commas. | No | Data exists but not in GIS format | Requires data translation | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| Point Vegetation Management Project Point Column Field Name | | | | Additional description of the vegetation management work. | | | | | Confidential? |
| 1 VmpID | Allas | D | | | Para annual de la casa | 4 | B-4 | timeframe | (Yes/No) Yes |
| | VMP ID | Data Type text(50) | Charateristic PK | Description Unique ID or job ID of an initiative. Primary key for Vegetation Management Project | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | |
| 2 UtilityID | VMP ID Utility ID | | | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. | submission? (Yes/ No) | | Requires data translation and extraction process Requires data translation | (Prepared for 2022 WMP) | Yes |
| 3 VmpLogID | Utility ID VMP Log ID | text(50) text(10) text(50) | | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project | submission? (Yes/ No) No No No | Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes Yes |
| , | Utility ID | text(50) text(10) | PK | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project | submission? (Yes/ No) No No No | Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes Yes |
| 3 VmpLogID 4 ProjectLocationOrAddress 5 ParcelAPN | Utility ID VMP Log ID Project Location Or Address Parcel APN | text(50) text(10) text(50) text(100) text(17) | PK | Unique IID or job IID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job IID of an initiative. Foreign key to the Vegetation Inspection Project log table. Address or location description for tree location. Einter "NA" if there is no address | submission? (Yes/ No) No No No No No | Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) | Yes Yes Yes |
| 3 VmpLogID 4 ProjectLocationOrAddress | Utility ID VMP Log ID Project Location Or Address | text(50) text(10) text(50) text(100) | PK | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "NJA" if there is no address where the subject tree is located. Assessor Parcel Number (JAPIA), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction purposes of identification and record- | submission? (Yes/ No) No No No No No | Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and estraction process Requires data translation and estraction process Requires data translation and estraction process Augmentation of | (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "2 year to implement year 300 YMP) | Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParceIAPN 6 TreeID | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID | text(50) text(10) text(50) text(100) text(17) text(50) | PK FK | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGBL", etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "NIA" if there is no address where the subject tree is located. Assessor Parcel Manher (JAPI), a number assigned to parcels of real property by the tax sessors of a particular jurisdiction for purposes of identification and record-tamping. Use the format: Ball Ballet SBM SBM. For example, 1006-10144-029-0000". Analyse ID Societate with individual treely within the scope of the vegetation. | submission? (Yes/No) No No No No No No No | Data exists but not in GIS format | Requires data translation and extraction process Augmentation of introduction of new data capture tools and processes Lagranslation of introduction of new data capture tools and process | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation | Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParceIAPN 6 TreeID | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID | text(50) text(10) text(50) text(100) text(17) text(50) | PK FK | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project log table. Address or location description for tree location. Enter "NIA" if there is no address where the subject tree is located. Accessor Parea Munther (APN), an number assigned to parceis of real property by the tax assessor of a particular juriculation for purposes of identification and record-lesping. Use the forms: #89 #888-#888. For example, *00-01544-209-0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. | submission? (Yes/No) No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process data translation and extraction process complete the process complete the information and extraction of new data complete to conspict the information and then translation and then translation and then translation and then translation and then translation to GSI formation. | (Prepared for 2022 WMP) 1 year to implement (1 year after data extraction and translation work complete) 2 years to implement | Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health | text(50) text(50) text(50) text(100) text(17) text(50) text(3) | PK FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardused identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "NA" if there is no address where the subject tree is located. Assessor Parcel Number (APN), a number assigned to parcess of real property by the trae assessor of a particular jurndiction for purposes of identification and record-keeping; the the format: ### ################################ | submission (Yes/ No) No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process introduction of and extraction process computer to data for process to coputer the information of the process of the | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health | text(50) text(50) text(50) text(100) text(17) text(50) text(3) | PK FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Assessor Parea Municiple (APM), an number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. Use the forms attendated was the record-keeping. Use the forms attendated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No | submission (Yes/ No) No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process medical recomplete and extraction process Requires data translation and extraction process Company of the process Augmentation of introduction of new data cupture tools and processes to capture the information of them translative proof of introduction of new data cupture tools and processes to capture the information of introduction of new data cupture tools and processes to capture the information of processes company of the processes to capture the information of the translation of processes to capture the information of the processes to capture the information of the translation of Augmentation of Augm | (Prepared for 2022 WMP) 1 year to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health | text(50) text(10) text(100) text(100) text(17) text(50) text(3) | PK FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "PVA" if there is no address where the subject tree is located. Assessor Parea Number (APN), a number assigned to parceis of real property by the tax assessor of a particular juricularion for purposes of identification and record-leseing. Use the forms are sea were sease. For example, "00-0144-029-0000", A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes Is the subject tree healthy? Possible values: | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist — Changes to data capture tools required Data does not exist — Changes to data capture tools required Data does not exist — Changes to data capture tools required | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process introduction of new data translation of new data translation of new data capture tools and processes to capture the sin formation of the process to capture the sin formation of introduction of new data capture tools and processes to capture the sin formation of introduction of new data capture to this formation of introduction of new data capture to this formation of the processes to capture the sin formation of the processes to captu | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (I year after data extraction and translation work complete) 2 years to implement (I year after data extraction and translation work complete) 2 years to implement (I year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health | text(50) text(10) text(100) text(100) text(17) text(50) text(3) | PK FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "PVA" if there is no address where the subject tree is located. Assessor Parea Number (APN), a number assigned to parceis of real property by the tax assessor of a particular juricularion for purposes of identification and record-leseing. Use the forms are sea were sease. For example, "00-0144-029-0000", A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes Is the subject tree healthy? Possible values: | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Require data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process of the | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) | FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGBLE," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "NA" if there is no address where the subject tree is located. Assessor Parcel Number (APV), a number assigned to parcels of real property by the teas seisces of a particular jurisdiction for purpose or disettification and record keeping. Use the formut: with aware assessor. For example, 7006 0184 029-0000°. A unique ID assigned with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Required shat translation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process of the | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) | FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "Ps/A" if there is no address where the subject tree is located. Assessor Parea Municipal Psi A number assigned to parcets of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-lespeng. Use the forma: #8 #8#88-#8#8. For example, 000-0144-029-0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Required data translation and extraction process Requires data translation and extraction process and extraction process and extraction process data translation and extraction process of the p | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data destination and translation work complete) 2 years to implement (1 year after data extraction and translation work (2 years to implement (3 year after data extraction and translation work (4 year after data extraction and translation work (5 years to implement (1 year after data extraction and translation work (1 year after data extraction and translation work (4 years to implement (1 years after data extraction and translation work (4 years to implement | Yes Yes Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies | Utility ID VAMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) | FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project tog table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Number (APN), an number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-lesping. Use the forma: star assessars. For example, Orol. 44x 029 0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Moderately growing | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process are Required with a translation and extraction process. Required shat translation and extraction process. Required shat translation and extraction process. Required shat translation and extraction process of the shadow of the shad | (Prepared for 2022 WMP) -1 year to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies | Utility ID VAMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) | FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project tog table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Number (APN), an number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-lesping. Use the forma: star assessars. For example, Orol. 44x 029 0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Moderately growing | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Required data translation and extraction process Requires data translation and extraction process to capture this information of introduction of new data register to the process of the process | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 year to implement (1 year after data or implement (2 year sto implement (3 year after data ordinated or 2022 WMP) 2 years to implement (1 year after data ordinated ordi | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate | text(50) text(10) text(10) text(100) text(17) text(50) text(3) text(3) | FK Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project tog table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Number (APN), an number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-leseping. Use the format sea 4888-888-888. For example, 000-0144-029-0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Modocrately growing Fast growing Tree height (feet), Round the value. | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Required that ranslation and extraction process Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process capture tools and extraction process of the process | (Prepared for 2022 WMP) -1 year to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) -2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
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| 3 VmpLogID 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) text(30) int int | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "PVA" if there is no address where the subject tree is located. Assessor Parea Number (APN), a number assigned to parceis of real property by the tax assessor of a particular juricularion for purposes of identification and record-lesping. Use the forms asses areas areas. For example, "500-0144-029-0000", A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Moderately growing Fast growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The CRUC High Fire Threat District (HiFTD) area that the vegetation management | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Requires data translation and extraction process and extraction process of the | (Prepared for 2022 WMP) 1 year to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) | Yes Yes Yes Yes Yes Yes Yes Yes Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcetAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class | text(50) text(10) text(10) text(100) text(17) text(50) text(3) text(3) text(3) text(100) text(100) | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "NA" if there is no address where the subject tree is located. Assessor Pared Name (APN), a number assigned to parcets of real property by the tran assessor of a particular jurisdiction for purposes of identification and record-keeping. Use the format set alease aleas. For example, Cool-144-229-0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. It is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Soos growing Moderately growing Fast growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. Tree diameter at breast height (inches). Round the value. Tree diameter at breast height (inches). Round the value. Tree diameter at breast height (inches). Round the value. Tree Zone 1 | submission (Yes/No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process are applied to the translation and extraction process. Require data translation and extraction process. Requires data translation and extraction process. Requires data translation and extraction process of the process | (Prepared for 2022 WMP) -1 year to implement (1 year date date -1 year to implement -1 year to im | Yes |
| 3 VmpLogID 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) text(30) int int | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGB.E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "PVA" if there is no address where the subject tree is located. Accessor Parea Number (APR), an unmber assigned to parceis of real property by the tax assessor of a particular juriculation for purposes of identification and record-leseping. Use the format set assesses alsee. For example, "Octob-144 209 2000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Modestately growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The CRUC High Fire Threat District (HFTD) area that the vegetation management project interacts. Possible values: Tree Jamester at breast height (inches), Round the value. The CRUC High Fire Threat District (HFTD) area that the vegetation management project interacts. Possible values: Tite 3 Tite 2 Tite 2 NovielTD | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process and extraction process Requires data translation and extraction process of the proces | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 years to implement (1 year after data extraction and translation work complete) 1 year to implement (Prepared for 2022 WMP) 1 year to implement 1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmptogiD 4 ProjectiocationOrAddress 5 ParcelAPN 6 TreelD 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass | Utility ID VAMP Log ID Project Location Or Address Parcel APM Tree ID Tree Nealth Tree Nealth Tree Species Species Growth Rate Tree Meight (feet) Tree Diameter (inches) HFTD Class City County | text(50) text(10) text(10) text(100) text(17) text(50) text(3) text(3) text(3) text(100) text(100) text(100) text(50) | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project tog table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Address or particular jurisdiction for purposes of identification and record-lessing. Use the formats are areas areas. For example, "006-0144-029-0000", A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Since growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The GRUP High Fire Threat District (HFTD) area that the vegetation management project intersects. Possible values: Tree Jamester at breast height (inches), Round the value. The GRUP High Fire Threat District (HFTD) area that the vegetation management project is located. County in where the vegetation management project is located. County in where the vegetation management project to located. | submission (Yes/No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required | Requires data translation and extraction process Requires data translation process Requires data translation and extraction process Requires data translation and extraction process and then translated report to GS formats and extraction process Requires data translation and extraction process an | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 year to implement (Prepared for 2022 WMP) 2 year to implement (1 year differ data) 2 years to implement (1 year differ data) 2 years to implement (1 year differ data) 3 years to implement (1 year differ data) 4 years to implement (1 year differ data) 4 years to implement (1 year differ data) 4 years to implement (1 year differ data) 5 years to implement (1 year differ data) 6 years to implement (1 year differ data) 6 years to implement (1 year differ data) 7 years to implement (1 year differ data) 6 years to implement (1 year differ data) 7 years to implement (1 year differ data) 1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreelD 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass 14 City 15 County 16 District | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Abaard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class City County District | text(50) text(10) text(10) text(10) text(17) text(17) text(20) text(3) text(3) text(3) text(100) text(100) text(50) text(50) text(50) | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGB.E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "Ps/A" if there is no address where the subject tree is located. Assessor Parea Municipal Psi American State ("An anumber assigned to parcets of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. Use the formas state assess. Base. For example, 000-0144-029-0000", A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Is the subject tree a hazard tree? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Modorately growing Fast growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The CPUC High rive Threet Destrict (HTTD) area that the vegetation management project interescs. Possible values: Tier 2 Zone 1 Non-HTTD City in where the vegetation management project is located. Country in where the vegetation management project is located. Coperating district where the vegetation management project is located. | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data exists but not in GIS format Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process and extraction process are applied that translation and extraction process. Requires data translation and extraction process. Requires data translation and extraction process to capture the sindependent of introduction of new data explain tools and process to capture the sindependent of introduction of new data explain tools and process to capture the sindependent of introduction of new data explain tools and process to capture the sindependent of introduction of new data explain tools and process to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data explain tools and processes to capture the sindependent of introduction of new data extraction of new data translation and extraction process an | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 years to implement (1 year after data extraction and translation work complete) 1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreelD 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass 14 City 15 County 16 District 17 Latitude | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Hazard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class City County District Latitude | text(50) text(10) text(10) text(10) text(17) text(20) text(3) text(3) text(30) int int text(100) text(50) text(100) | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation inspection Project Log table. Address or location description for tree location. Enter "PVA" if there is no address where the subject tree is located. Accessor Parea Number (APR), an unmber assigned to parceis of real property by the tax assessor of a particular juricularion for purposes of identification and record-leseping. Use the format set assesses asses. For example, "Octob-144 029 0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Generalized growth rate of the subject tree species. Possible values: Slow growing Modeszteky growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The CRUC High Fire Threat District (HFTD) area that the vegetation management project interacts. Possible values: Tite 3 Tite 1 Tite 1 Tite 1 Tite 1 Tite 2 Tite 1 Tite 3 Tite 2 Tite 1 Tite 3 Tite 1 Tite 3 Tite 1 Tite 3 Tite 4 Tite 4 The diameter at breast height (inches), Round the value. Cluy in where the vegetation management project is located. Operating district where the vegetation management project to located. Operating district where the vegetation management project occurred. Lasthade of event point in decimal degrees. | submission (Yes/No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data exists but not in GIS format | Requires data translation and extraction process and extraction process Requires data translation and extraction process of translation and extraction process of introduction of new data capture tools and processes to capture the information of introduction of new data of the translation of the translation of the translation of new data capture tools and processes to capture the information of introduction of new data capture tools and processes to capture the information of introduction of new data of the translation and extraction process Requires data translation and extraction | (Prepared for 2022 WMP) 1 year to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 years to implement (1 year after data extraction and translation work complete) 1 years to implement (1 year after data extraction and translation work complete) 1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmpLogID 4 Project LocationOrAddress 5 ParcelAPN 6 TreeID 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass 14 City 15 County 16 District 17 Latitude 18 Longitude Line Wegetation Management Project Line | Utility ID VMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Health Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class City County District Latitude Longitude | text(50) text(10) text(10) text(10) text(17) text(20) text(3) text(3) text(30) int int text(100) text(50) text(100) | PK EK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGB.C," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Munel (APP), a number assigned to parcels of real property by the trans assers of a particular jurisdiction for purposes of identification and record-keeping. Use the forms attendate affects affect. For example, "ODE-164-209-2000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: 1s the subject tree healthy? Possible values: 1s the subject tree a hazard tree? Possible values: 1s the subject tree a hazard tree? Possible values: 2s | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data exists but not in GIS format | Requires data translation and extraction process are desired process and extraction process. Requires data translation and extraction process and extraction process. Requires data translation and extraction process to capture this information of introduction of new data capture tools and process to capture the information of introduction of new data capture tools and process to capture the information of introduction of new data capture tools and process to capture the information of introduction of new data capture tools and process to capture the information of introduction of new data capture tools and process to capture the information of introduction of new data capture tools and processes to capture the information of introduction of new data capture tools and processes to capture the information of introduction of new data capture tools and processes to capture the information of introduction of new data capture tools and processes to capture the information of introduction of new data capture tools and processes to capture this information of introduction of new data capture tools and processes to capture this information of introduction of new data capture tools and processes to capture this information of introduction of new data capture tools and processes to capture data translation and extraction process and extraction process Requires data translation and extraction process Requ | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 year to implement (1 year after data extraction and translation work complete) 1 year to implement (1 year to imp | Yes |
| 3 VmpLogID 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreelD 7 TreeHealth 8 TreeMazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass 14 City 15 County 16 District 17 Latitude 18 Longitude Line Vegetation Management Project Line Field Name 1 VmpID 2 UtilityID | Utility ID VAMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Abazard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class City County District Latitude Longitude Alias WAMP ID Utility ID | text(50) text(10) text(50) text(100) text(17) text(30) text(3) text(3) text(30) int text(100) text(50) text(50) text(50) text(50) text(50) text(50) text(50) text(50) text(50) | PK Domain Domain Charateristic PK | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Municipal Point Inspection Project Log table. Address or John Pointed (APPL, an number assigned to parcets of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-lessing. Use the formas sets ################################# | submission (Yes/ No) No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process to capture the sindependent of introduction of new data of introduction of new data of the translation and extraction of new data of introduction of new data of the process of | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 year to implement (1 year after data extraction and translation work complete) 1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmptogiD 4 ProjectLocationOrAddress 5 ParcelAPN 6 TreelD 7 TreeHealth 8 TreeHazard 9 TreeSpecies 10 SpeciesGrowthRate 11 TreeHeight 12 TreeDiameter 13 HFTDClass 14 City 15 County 16 District 17 Latitude 18 Longitude Use Vegetation Management Project Line Pald Name 1 VmpID | Utility ID VAMP Log ID Project Location Or Address Parcel APN Tree ID Tree Health Tree Assard Tree Species Species Growth Rate Tree Height (feet) Tree Diameter (inches) HFTD Class City County District Latitude Longitude Alias WAMP ID | text(50) text(10) text(50) text(100) text(17) text(50) text(3) text(3) text(3) text(30) int text(100) text(100) fox text(50) | PK FK Domain Domain | Unique ID or job ID of an initiative. Primary key for Vegetation Management Project Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project Log table. Address or location description for tree location. Enter "N/A" if there is no address where the subject tree is located. Accessor Parea Munel (APPL), a number assigned to parcets of real property by the trans assers or ale particular jurisdiction for purposes of identification and record-keeping. Use the forms atte alease alease. For example, Orold-144 029-0000". A unique ID associated with individual tree(s) within the scope of the vegetation management project. Is the subject tree healthy? Possible values: Is the subject tree healthy? Possible values: Yes No Common name for tree species in scope for the vegetation management project. Ceneralized growth rate of the subject tree species. Possible values: Slove growing Modorately growing Fast growing Tree height (feet), Round the value. Tree diameter at breast height (inches), Round the value. The CPL High Fire Threat District (HFTD) area that the vegetation management project interacts. Possible values: Tier 3 Zone 1 City in where the vegetation management project is located. County in where the vegetation management project is located. County in where the vegetation management project is located. County in where the vegetation management project is located. County in where the vegetation management project is located. County in or job ID of an initiative. Primary key for Vegetation Management Project Line table. | submission (Yes/ No) No No No No No No No No No | Data exists but not in GIS format Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data does not exist - Changes to data capture tools required Data exists but not in GIS format | Requires data translation and extraction process are experienced at translation and extraction process. Requires data translation and extraction process. Augmentation of introduction of new data experts to depther the information of the information of the data experts to depther the information on the data experts to depther the information of the data experts to depther the information and then translated report to GS formats. Augmentation of introduction of new data experts to the information of the data experts to GS formats. Augmentation of an expert to the information of the data experts to GS formats. Augmentation of introduction of new data experts to GS formats. Augmentation of introduction of new data experts to GS formats. Augmentation of introduction of new data experts to GS formats. Augmentation of an expert of the information and then translated report to GS formats. Augmentation of the data translation and extraction process. Requires data translation and extraction process. | (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 2 years to implement (1 year after data extraction and translation work complete) 1 year to implement (1 year after data extraction and translation work complete) 1 year to implement (Prepared for 2022 WMP) | Yes |

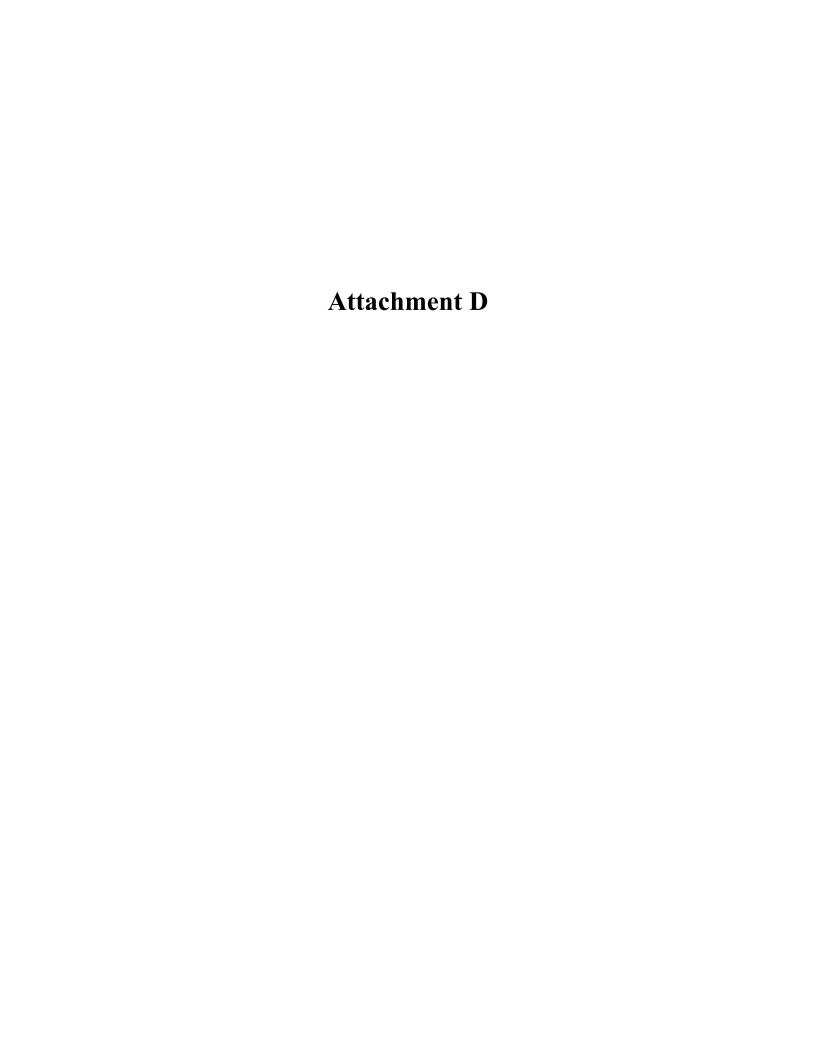
| | 4 ProjectLocationOrAddress | Project Location Or Address | text(100) | | | No | Data exists but not in GIS format | Requires data translation | ~1 year to implement | Yes |
|----------------------------|--|--|--|--|--|--|---|--|--|--|
| | 5 HFTDClass | HFTD Class | text(10) | Domain | Address or location description for tree location. The CPUC High Fire Threat District (HFTD) area that the vegetation management oroiect intersects. Possible values: | No | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | project intersects. Possible values: Tier 3 Tier 2 Zone 1 | | | and extraction process | (Prepared for 2022 WMP) | |
| | 6 HFTDClassComment | HFTDClassComment | text(50) | | Non-HFTD | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 City | City | text(50) | | If the project line intersects multiple HFTD areas, list all of them here. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 County | County | text(50) | | City in where the vegetation management project is located. | No | Data exists but not in GIS format | Requires data translation and extraction process | | Yes |
| | 9 District | District | text(100) | | County in where the vegetation management project is located. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| Polygon | Vegetation Management Project Polygon Field Name | Alias | Data Tune | Charateristic | Operating district where the vegetation management project occurred. | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | Confidential? |
| column | 1 VmpID | VMP ID | text(50) | PK | Description Unique ID or job ID of an initiative. Primary key for Vegetation Management Project | submission? (Yes/ No) No | | Requires data translation and extraction process | timeframe ~1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| | 2 UtilityID | Utility ID | text(10) | | Polygon table. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 3 VmpLogID | VMP Log ID | text(50) | FK | Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an initiative. Foreign key to the Vegetation Inspection Project | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 4 ProjectLocationOrAddress | Project Location Or Address | text(100) | | Log table. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 5 HFTDClass | HFTD Class | text(10) | Domain | Address or location description for tree location. The CPUC high-fire threat district (HFTD) area the vegetation management project intersects. Possible values: | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Tier 3 Tier 2 Zone 1 Non-HFTD | | | | | |
| | 6 HFTDClassComment | HFTDClassComment | text(50) | | If the project line intersects multiple HFTD areas, list all of them here. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 7 City | City | text(50) | | City in where the vegetation management project is located. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 County | County | text(50) | | County in where the vegetation management project is located. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 9 District | District | text(100) | | Operating district where the vegetation management project occurred. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| Table Column | Asset Inspection Log Field Name | Alias | Data Type | Charateristic | | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | Confidential? |
| | 1 AiLogID | Al Log ID | text(50) | PK | Description Unique ID or job ID of an asset inspection activity. Primary key for the Asset inspection | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process | *1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| | 2 VmpLogID | VMP Log ID | text(50) | FK | table. Unique ID or job ID of a vegetation management project resulting from an asset | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | inspection. A Foreign key to the Vegetation Management Project table. Enter the corresponding VmpID if the subject asset inspection resulted in the creation of a vegetation management project. If the asset inspection did not result in the creation of a calculation programment project, they extend "Mar" for this field. | f | | | | |
| | 3 InspectionStartDate | Inspection Start Date | date | | a related vegetation management project, then enter "N/A" for this field. The date when an asset inspection began. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 4 InspectionEndDate | Inspection End Date | date | | unknown. Do not include time. The date when an asset inspection was completed. If the asset inspection was started and completed on the same day, "InspectionStartDate" and "InspectionEndDate" will have the same value. Use YYYY-MM-DD format. Leave blank | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 5 PerformedBy | Performed By | text(30) | Domain | if unknown. Do not include time. Who performed the asset inspection? Possible values: Utility staff | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 PerformedByComment | Performed By Comment | text(30) | | Contractor Other – See comment | No | Data exists but not in GIS format | | ~1 year to implement | Yes |
| | 7 InpsectorName | Inpsector Name | text(50) | | Inspector description not listed in the options above. | No | | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 8 InspectionType | InspectionType | text(30) | Domain | Inspector name for the asset management inspection. The type of asset inspection performed. Possible values: | No | | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | | Patrol Detailed Pole loading | | | and extraction process | (Prepared for 2022 WMP) | |
| | 9 InspectionTypeComment | Inspection Type Comment | text(30) | | Other – See comment. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 10 InspectionQA | Inspection QA | text(3) | Domain | Inspection type description not listed in the options above. Has the inspection been checked for quality assurance? Possible values: Yes | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 11 InspectionComments | Inspection Comments | text(100) | | No Additional comments related to the asset management inspection. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 12 ComplianceFinding | Compliance Finding | text(3) | Domain | Did the asset inspection result in the finding of any non-compliance issues? Possible values: Yes | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 13 InspectionMethod | Inspection Method | text(100) | Domain | No The method(s) by which the asset inspection was conducted. Possible values: Drive by | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Walk out Aerial – drone Aerial – helicopter | | | and extraction process | (Trepared for 2022 Willing) | |
| | | | | | Remote sensing – Infrared/Thermal Remote sensing – LiDAR Other – See comment. | | | | | |
| | 14 InspectionMethodComment | Inspection Method Comment | text(50) | | Inspection method not listed in the options above—or multiple inspection methods listed in the options above. If multiple, list all values separated by commas. | No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 15 InspectionTechnology | Inspection Technology | text(30) | Domain | The technology that an inspector uses for the asset inspection project. Possible values: Collector for ArcGIS | No : | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Survey123 for ArcGIS Workforce for ArcGIS ArcGIS QuickCapture | | | | | |
| | 16 InspectionTechnologyComment | Inspection Technology Comment | text(30) | | Other – See comment Inspection technology not listed in the options above. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | _ | | | | | | | | |
| Point Column | Asset Inspection Point Field Name | Alias | Data Type | Charateristic | | Data provided in latest | Availability Explanations | Data procurement actions | Estimated delivery | Confidential? |
| Point Column | | Alias Al ID | Data Type text(50) | Charateristic PK | Description Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data exists but not in GIS format | | Estimated delivery timeframe ~1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| Point Column | Field Name | | | | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. | submission? (Yes/ No) | | Requires data translation | timeframe ~1 year to implement | (Yes/No) Yes Yes |
| Point Column | Field Name 1 AilD | AI ID | text(50) | | Unique ID or job ID of an asset inspection activity. Primary key for the Asset inspection Point table. Standardized identification name of the utility ("UtilityG8E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection | submission? (Yes/ No) No | Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process Requires data translation | timeframe "1 year to implement (Prepared for 2022 WMP) "1 year to implement | (Yes/No) Yes Yes |
| Point Column | Field Name 1 AilD 2 UtilityID | Al ID Utility ID | text(50) text(10) | PK | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity. Foreign key to the Asset inspection table. | submission? (Yes/ No) No No | Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction process Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "1 year to implement | (Yes/No) Yes Yes Yes |
| Point Column | Field Name 1 AilD 2 UtilityID 3 Ail.og/D | AI ID Utility ID AI Log ID | text(50) text(10) text(50) | PK | Unique ID or job ID of an asset inspection activity. Primary key for the Asset inspection Point table. Standardized identification name of the utility ("UtilityG8E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection | submission? (Yes/ No) No No No | Data exists but not in GIS format | Requires data translation and extraction process | timeframe 1 year to implement (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 1 year to implement (Prepared for 2022 WMP) 1 year to implement 1 year to implement | (Yes/No) Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress | Al ID Utility ID Al Log ID Inspection Location Or Address | text(50) text(10) text(50) text(100) | PK | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity. Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessors Parcel Number (APN), a number assigned to parcels of real property by the tax suscessor of a parcisolar justification for purposes of identification and record-keeping. If the asset inspected does not interest a parcel boundary, enter "NM" for this field. Use the forms. Here assessor of a parcel. | submission? (Yes/ No) No No No No | Data exists but not in GIS format | Requires data translation and extraction process Requires data translation Requires data translation | timeframe "1 year to implement (Prepared for 2022 WMP) "1 year to implement | (Yes/No) Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress | Al ID Utility ID Al Log ID Inspection Location Or Address | text(50) text(10) text(50) text(100) | PK | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset Inspection activity. Foreign key to the Asset Inspection able. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. If the asset inspected does not intersect a purcel boundary, enter "NJA" for this field. Ute the formst size assessing and particular size assets areas. For example, 00: 0144-029-0000. The field is the fourtil size assets enters. For example, 00: 0144-029-0000. The Table | submission? (Yes/ No) No No No No | Data exists but not in GIS format | Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlkogiD 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HFTD Class | text(50) text(10) text(50) text(100) text(17) | PK FK | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity. Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a parciscular justification for property and the assessor of a parcellar justification for property and property in the fact susceptor of a parcellar justification for property and property in the fact used to find property and the fact the fact the test of the fact that are facility of cold 4402-9000. The CPUC high-fire threat district (NFTD) area the inspection intersects. Possible values: | submission? (Yes/ No) No No No No No No | Data exists but not in GIS format | Requires data translation and extraction process need extraction process need extraction process. Requires data translation and extraction process. Requires data translation and extraction process. Requires data translation and extraction process and extraction process. Requires data translation and extraction process and extraction process. | timeframe "I year to implement (Prepared for 2022 WMP) | (Yes/No) Yes Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AiLogiD 4 InspectionLocationOrAddress 5 ParceiAPN 6 HFTDClass | A I ID Utility ID Al Log ID Inspection Location Or Address Parcel APN MFTD Class | text(50) text(10) text(50) text(100) text(17) text(110) | PK FK | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an asset inspection activity. Foreign key to the Asset Inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a parcels inspected does not intersect a purcel boundary, enter "NIA" for this field. Use the form: III the asset inspected does not intersect a purcel boundary, enter "NIA" for this field. Use the form: III all assets are all assets for a policy of 184 429 9000. The CPUC high-fire threat district (NFTID) area the inspection intersects. Possible values: | submission? (Yes/ No) No No No No No No | Data exists but not in GIS format | Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes Yes Yes Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlkogiD 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HFTD Class | text(50) text(10) text(50) text(100) text(17) text(10) text(50) | PK FK | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityGBL," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset Inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping, if the asset inspected does not interest a parcel boundary, enter "NA" for this field, Use the format: Hall sease-all-allans, for enample, 006-0144-029-0000. The CPUC high-fire threat district (NFTID) area the inspection intersects. Possible values: Total 2 Zone 1 Non-HFTD | submission? (Yes/ No) No No No No No No | Data exists but not in GIS format | Requires data translation and extraction process need extraction process need extraction process. Requires data translation and extraction process. Requires data translation and extraction process. Requires data translation and extraction process and extraction process. Requires data translation and extraction process. | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes Yes Yes Yes Yes Yes Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County | A I ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HFTD Class City County | text(50) text(10) text(50) text(100) text(17) text(110) | PK FK | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and records that the feet. Use the format: The assessor of a particular jurisdiction for purposes of identification and records the feet. The content that assessor of a particular jurisdiction for purposes of identification and records the feet. Use the format: The assessor of a particular jurisdiction for purposes of identification and records. The CPL Chigh-fire threat district (NFTD) area the inspection intersects. Possible values: Tile 2 Zone 1 Non-NFTD Otly in where the asset inspection project is located. | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process Requires data translation and extraction proce | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| Point Column | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County 9 District | Al ID UBIRY ID Al Log ID Inspection Location Or Address Parcel APN HFTD Class City County District | text(50) text(10) text(50) text(100) text(17) text(10) text(50) text(50) | PK FK | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of parcilloral prindiction purposes of identification and record-keeping, if the asset inspected does not interact a parcel boundary, enter "NIA" for this field. Use the formst. IRR# SERM SERMER. For example, COSI-144-029-0000. The CPU, high-fire threat district (HFTD) area the inspection intersects. Possible values: Tier 3 Non-HFTD City in where the asset inspection project is located. County in where the asset inspection project is located. | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| Point | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County 9 District 10 Latitude 11 Longitude | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN MFTD Class City County District Latitude | text(50) text(10) text(50) text(100) text(17) text(10) text(50) text(50) text(100) | PK FK | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset Inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurindiction for purposes of identification and record-keeping. If the asset inspected does not intended parcel boundary, enter "JNA" for this field. Ute the formst size assets affect in the rest inspection project in feel asset inspected does not intended. The field of the fold of the fold. The fold of the fold of the fold. The fold of t | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| Paint Column Line Column | Field Name 1 AIID 2 UtilityID 3 AiLogiD 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County 9 District 10 Latitude 11 Longitude Asset Inspection Line Field Name | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HETD Class City County District Latitude Longitude Alias | text[50] text[10] text[10] text[10] text[10] text[10] text[10] text[10] text[10] text[50] text[50] float float Data Type | PK FK Domain | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessore Parcel Number (APN), a number assigned to parcels of real property by the Asset inspection for the inspection location. Assessore Parcel Number (APN), a number assigned to parcels of real property by the Assessore of a parcels of property by the Assessore of a parcel property by the East assessor of a parcel approach of property by the feet in the foreign asset of the property by the feet in the feet to the the properts of property by the feet in the feet. Use the format intellectual feet in property by the feet in the | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process Required that translation and extraction process Required data translation and entraction process Requires data translation and extraction process Data procurement actions | timeframe -1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes Yes Yes Yes Yes Yes Yes Yes Yes Confidential?* (Yes/No) |
| Line | Field Name 1 AIID 2 UtilityID 3 AlLogID 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County 9 District 10 Latitude 11 Longitude Asset Inspection Line Field Name 1 AIID | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HFTD Class City County District Latitude Longitude Alias Al ID | text[50] text[10] | PK FK Domain | Unique ID or job ID of an asset inspection activity. Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityGBE," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset Inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurindiction for purposes of identification and record-keeping. If the asset inspected does not intense a parcel boundary, enter "JNA" for this field. Ute the formst are assets affect and parcels of cell property by the tax assets or of a particular jurindiction for purposes of identification and record-keeping. If the asset inspected does not intense Fe example, Oct-144-079-0000. The field. Ute the formst are asset affect for a property of cell-442-07-0000. The 73 Tier 2 Zone 1 Non-HTTD City in where the asset inspection project is located. County in where the asset inspection project is located. Operating district where the asset inspection project occurred. Latitude of event point in decimal degrees. | submission? (Yes/ No) No No No No No No No No No | Data exists but not in GIS format | Requires data translation and extraction process Required that translation and extraction process Required data translation and extraction process Requires data translation and extraction process | timeframe -1 year to implement (Prepared for 2022 WMP) | (Yes/No) Yes |
| Line | Field Name 1 AIID 2 UtilityID 3 AiLogiD 4 InspectionLocationOrAddress 5 ParcelAPN 6 HFTDClass 7 City 8 County 9 District 10 Latitude 11 Longitude Asset Inspection Line Field Name | Al ID Utility ID Al Log ID Inspection Location Or Address Parcel APN HETD Class City County District Latitude Longitude Alias | text[50] text[10] text[10] text[10] text[10] text[10] text[10] text[10] text[10] text[50] text[50] float float Data Type | PK FK Domain | Unique ID or job ID of an asset inspection activity, Primary key for the Asset Inspection Point table. Standardized identification name of the utility ("UtilityG&E," etc.). Unique ID or job ID of an asset inspection activity, Foreign key to the Asset inspection table. Address or location description for the inspection location. Assessor Parcel Number (APN), a number assigned to parcels of real property by the assessor of a parcial property by the assessor of a parcel number (APN), a number assigned to parcels of real property by the assessor of a parcel assessor of a parcel number (APN). The first index is described in property in the assets inspected open purposes of identification and record-keeping, if the asset inspected open purposes of identification and record-keeping, if the asset inspected open states. For example, 00:0144-029-0000. The CPLC high-fire threat district (NFTD) area the inspection intersects. Possible values: Tier 3 Zone All County in where the asset inspection project is located. County in where the asset inspection project is located. County in where the asset inspection project is located. Lastitude of event point in decimal degrees. Description Unique ID or job ID of an asset inspection activity. Primary key for the Asset inspection line table. Standardized identification name of the utility ("UtilityG&E," etc.). | submission? (Yes/ No) No | Data exists but not in GIS format | Requires data translation and extraction process Required that translation and extraction process Required data translation and extraction process Requires data translation and extraction process | timeframe "1 year to implement (Prepared for 2022 WMP) "2 year to implement (Prepared for 2022 WMP) "1 year to implement (Prepared for 2022 WMP) "2 year to implement (Prepared for 2022 WMP) "3 year to implement (Prepared for 2022 WMP) "4 year to implement (Prepared for 2022 WMP) Estimated delivery timeframe Estimated delivery timefr | \(\text{Yes} \) \(\te |
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| 3 GhStatus | GH Status | text(30) | Domain | The status of the grid hardening activity. Possible values: Planned In progress | Yes | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
|---|--|------------------------|---------------------|--|---|---|---|---|----------------------------------|
| 4 GhChangeOrder | GH Change Order | text(3) | Domain | Complete Cancelled Has a change order been requested for this grid hardening initiative since the approva of the utility's previous WMP? Possible values: | l No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 5 GhChangeOrderDate | GH Change Order Date | date | | Yes No | No | Data exists but not in GIS format | | , ,, | Yes |
| 6 GhChangeOrderType | GH Change Order Type | text(100) | Domain | The date of when the change order was submitted. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. The type of change order requested. Possible values: | No | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | | | | Increase in scale Decrease in scale Change in prioritization Change in deployment timing | | | and extraction process | (Prepared for 2022 WMP) | |
| 7 GhChangeOrderTypeComment | Gh Change Order Type Comment | text(100) | | Change in work being done Other change – See comment | No | Data exists but not in GIS format | | | Yes |
| 8 DateStart | Date Start | date | | Change order type not listed above. | No | Data exists but not in GIS format | and extraction process Requires data translation | | Yes |
| 9 DateEnd | Date End | date | | The start date of the grid hardening project. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. The completion date of the grid hardening project. Use YYYY-MM-DD format. Leave | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 10 LineDeenergized | Line Deenergized | text(3) | Domain | The completion date of the grid hardening project. Use YYYY-MM-I/DI format. Leave blank if unknown. Do not include time. Lines need to be de-energized to perform the work. Possible values: Yes | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | | Yes |
| 11 PersonInChargeName | Person In Charge Name | text(50) | | No | No | Data exists but not in GIS format | | | Yes |
| 12 PerformedBy | Performed By | text(30) | Domain | Person in charge for the grid hardening project. Who performed the grid hardening activity? Possible values: Utility staff Contractor | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 13 PerformedByComment | Performed By Comment | text(30) | | Other – See comment. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 14 InitiativeActivity | Initiative Activity | text(100) | | Entity that performed grid hardening and is not listed in options above. Initiative activities related to the grid hardening project which include: Capacitor maintenance and replacement | Yes | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | Circuit breaker maintenance and installation Conductor replacement Covered conductor installation Covered conductor maintenance | | | | | |
| | | | | Crossarm maintenance, repair, and replacement Expulsion fuse replacement Grid topology improvements to mitigate or reduce PSPS events | | | | | |
| | | | | Installation of system automation equipment Installation of sectionalizing equipment Maintenance, repair, and replacement of connectors, including hotline clamps Other corrective action | | | | | |
| | | | | Pole replacement Pole reinforcement Transformer maintenance and replacement | | | | | |
| | | | | Transmission tower maintenance and replacement Undergrounding of electric lines and/or equipment Other – See comment. | | | | | |
| 15 InitiativeActivityComment 16 DescriptionOfGridHardening | Initiative Activity Comment Description Of Grid Hardening | text(50) | | Initiative activity not listed in the options above. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes Yes |
| | Scale proof of the file of the | ica(100) | | Additional description for the grid hardening work. | | Data exists due not in dis format | and extraction process | (Prepared for 2022 WMP) | |
| Point Grid Hardening Point Column Field Name | Alias | Data Type | | Description | submission? (Yes/ No) | Availability Explanations | Data procurement actions | timeframe | Confidential? (Yes/No) |
| 1 GhID 2 UtilityID | GH ID Utility ID | text(50) | PK | Unique ID or job ID of a grid hardening activity. Primary key for the Grid Hardening Point table. | No No | Data exists but not in GIS format Data exists but not in GIS format | Requires data translation and extraction process Requires data translation | ~1 year to implement (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 3 GhLogID | GH Log ID | text(50) | FK | $Standardized\ identification\ name\ of\ the\ utility\ ("UtilityG\&E,"\ etc.).$ | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| 4 GridHardeningLocationOrAddress | Grid Hardening Location Or Address | text(100) | | Unique ID or job ID of a grid hardening activity. Foreign key to the Grid Hardening Log table. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 5 ParcelAPN | Parcel APN | text(17) | | Address or location description for the grid hardening location. | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | Assessor Parcel Number (APN), a number assigned to parcels of real property by the tax assessor of a particular jurisdiction for purposes of identification and record-keeping. If the asset inspected does not intersect a parcel boundary, enter "NA" for | | | process. | wm²) | |
| 6 ParcelAPN | HFTD Class | text(10) | Domain | this field. Use the format: ###-####-####. For example, 006-0144-029-0000. The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. Possible values: Tiler 3 | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | Tier 3 Tier 2 Zone 1 Non-HFTD | | | | | |
| 7 City | City | text(50) | | City in where the grid hardening project is located. | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| 8 County 9 District | County | text(50) | | County in where the grid hardening project is located. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes Yes |
| 10 Latitude | Latitude | float | | Operating district where the grid hardening project. | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| 11 Longitude | Longitude | float | | Latitude of event point in decimal degrees | No | Data exists but not in GIS format | | | Yes |
| Point Grid Hardening Line | _ | | | Longitude of event point in decimal degrees. | | | and extraction process | (Prepared for 2022 WMP) | |
| Column Field Name | Alias GH ID | Data Type text(50) | Charateristic PK | Description | Data provided in latest submission? (Yes/ No) Yes | Availability Explanations Data exists but not in GIS format | Data procurement actions Requires data translation | timeframe ~1 year to implement | Confidential? (Yes/No) Yes |
| | | | | Unique ID or job ID of a grid hardening activity. Primary key for the Grid Hardening Line table. This ID is exactly same as the GhID for the Grid Hardening Log. This key also joins with the Primary key for the Grid Hardening Log table. | | | and extraction process | (Prepared for 2022 WMP) | |
| 2 UtilityID 3 GhLogID | Utility ID GH Log ID | text(10) | FK | $Standardized\ identification\ name\ of\ the\ utility\ ("UtilityG&E,"\ etc.).$ | Yes Yes | Data exists but not in GIS format Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | Yes Yes |
| 4 GridHardeningLocationOrAddress | Grid Hardening Location Or Address | text(100) | | Unique ID or job ID of a grid hardening activity. Foreign key to the Grid Hardening Log table. | Yes | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 5 HFTDClass | HFTD Class | text(10) | Domain | Address or location description for the grid hardening location. The CPUC high-fire threat district (HFTD) area the grid hardening project intersects. Possible values: | Yes | Data exists but not in GIS format | | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | Fig. 3 Tier 3 Zone 1 | | | and extraction process | (Prepared for 2022 WMP) | |
| 6 HFTDClassComment | HFTDClassComment | text(50) | | Non-HFTD If the project line intersects multiple HFTD areas, list all of them here. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 7 City | City | text(50) | | If the project line intersects multiple HF ID areas, list all of them here. City in where the grid hardening project is located. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 8 County | County | text(50) | | County in where the grid hardening project is located. | No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 9 District | District | text(100) | | Operating district where the grid hardening project. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| Table Initiative Asset Log Column Field Name | Alias | Data Type | Charateristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| 1 AssetLogID 2 VmiID | Asset Log ID | text(50) | PK FK | Unique ID and primary key for the Initiative Asset Log table. | No No | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | |
| 2 VMIID | VMIID | text(50) | PK. | Unique ID or job ID of a vegetation management inspection activity. Foreign key to the Vegetation Management Inspection Point, Line, and Polygon tables. This value can be repeated based on the amount of asset or circuit segments. | | Data exists but not in GIS format | and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 3 VmpID | VMP ID | text(50) | FK | Unique ID or job ID of an initiative. Foreign key to the Vegetation Management Project Point, Line and Polygon tables. This value can be repeated based on the amount of asset or circuit | No No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 4 AilD | AI ID | text(50) | FK | segments. Unique ID or job ID of an asset inspection activity. Foreign key to the Asset Inspection Point, Line and Polygon tables. This value can be repeated based on the amount of asset or circuit segments. | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 5 GhID | GH ID | text(50) | FK | asset or circuit segments. Unique ID or job ID of a grid hardening activity. Foreign key to the Grid Hardening Point and Line tables. This value can be repeated based on the amount of asset or circuit segments. | No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| 6 AssetID 7 Associated AssetCount | Asset ID | text(50) | FK | Unique ID for a specific point asset. Must be traceable stable ID within a specific asset class. Foreign key to all the related Asset Point tables. | No No | Data exists but not in GIS format | and extraction process | (Prepared for 2022 WMP) | |
| 7 AssociatedAssetCount 8 SubstationID | Associated Asset Count Substation ID | integer text(50) | | The number of assets which are associated with the initiative activity. | No No | Data exists but not in GIS format Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 9 SubstationName | Substation Name | text(50) | | Unique ID of the substation supplying the circuit associated with vegetation management project. Name of the substation supplying the circuit associated with the vegetation. | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) | Yes |
| 10 CircuitID | Circuit ID | text(50) | FK | Name of the substation supplying the circuit associated with the vegetation management project. Unique ID for a specific line asset. Must be traceable stable ID within a specific asset | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | | Yes |
| 11 CircuitName | Circuit Name | text(255) | | class. Foreign key to the Asset Line tables. | No | Data exists but not in GIS format | | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 12 CircuitType | Circuit Type | text(30) | | Name of the circuit associated with the vegetation management project. Circuit line type. Possible values: Transmission Line Primary Distribution Line | No | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| 13 AssociatedCircuitLength | Associated Circuit Length (mile) | float | | Secondary Distribution Line Unknonwn | No | Data exists but not in GIS format | | | Yes |
| 14 Underbuild | Underbuild | text(3) | Domain | The length of circuits which are associated with the initiative activity (mile). Two decimal places. Are transmission lines also present on the subject structure? Possible values: Yes | No | Data exists but not in GIS format | and extraction process Requires data translation | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| 15 LineDeenergized | Line Deenergized | text(3) | Domain | Yes No Do the power lines need to be de-energized to perform the work? Possible values: Yes | No | Data exists but not in GIS format | and extraction process Requires data translation and extraction process | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| Table Initiative Photo Log | | | | No. | | | | | |
| Column Field Name 1 PhotoiD | Alias Photo ID | Data Type text(100) | Charateristic PK | Description | Data provided in latest submission? (Yes/ No) No | Availability Explanations Data does not exist – Changes to data capture tools required | Data procurement actions Augmentation of introduction of new data | timeframe ~2 years to implement | Confidential? (Yes/No) Yes |
| | | | | ID for photo showing the initiative or inspection findings. Primary key for the Initiative Photo Log table. Photo format: Geotagged JPEG or PNG. Use format UtilityName_DistrictID_InspectorInitial_Initiative_YYYYMMDD_PhotoNumber. For | | Luce copture tools required | to capture this information and then translate/export | extraction and translation | |
| 2 PhotoBeforeID | Photo Before ID | text(100) | PK | example, "UtilityG&E_AB_20200703_Initiative_1.png" | No | Data does not exist – Changes to | to GIS formats Augmentation of | ~2 years to implement | Yes |
| | | | | ID for photo showing the initiative or inspection location prior to the project happening or a corrective action taking place. Primary key for the Initiative Photo Log table. Photo format: Geotagged IPEG or PNG. Use format UtilityName_DistrictID_InspectorInitial_Initiative_YYYYMMDD_PhotoNumber. For | | data capture tools required | introduction of new data capture tools and processes to capture this information and then translate/export | extraction and translation | |
| 3 PhotoAfterID | Photo After ID | text(100) | PK | Outsymbol: _OssictoD_inspectorinitias_initiastwe_TTTMiniboD_FiloDottlibel. For example, "UtilityG&E_AB_initiative_20200703_1.png" | No | Data does not exist – Changes to | to GIS formats Augmentation of | | Yes |
| | | | | Illustration of the initiative or inspection after the corrective action. Primary key for th Initiative Photo Log table. Use format | e | data capture tools required | introduction of new data capture tools and processes to capture this information and then translate/export | | |
| 4 VmplD | VMP ID | text(50) | FK | Initiative Photo Log table. Use format UtilityName_DistrictID_inspectorInitial_Initiative_YYYYMMDD_PhotoNumber. For example, "UtilityG&E_AB_Initiative_20200703_1.png" | No | Data does not exist – Changes to | to GIS formats Augmentation of | | Yes |
| _. | | (20) | • | | | data capture tools required | introduction of new data capture tools and processes to capture this information | (1 year after data extraction and translation | |
| c Manife | VMLID | Bounder | EV | Unique ID or job ID of an initiative. Foreign key to the Vegetation Management Project Point, Line and Polygon tables. This value can be repeated based on the number of photos taken. | | Data descent | and then translate/export to GIS formats | | Yes |
| 5 VmilD | VMI ID | text(50) | FK | | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information | | |
| | | | | Unique ID or job ID of a vegetation management inspection activity. Foreign key to the Vegetation Management Inspection Point, Line, and Polygon tables. This value can be repeated based on the number of photos taken. | | | and then translate/export to GIS formats | | |
| 6 AilD | Al ID | text(50) | FK | | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information | extraction and translation | |
| | | | | Unique ID or job ID of an asset inspection activity. Foregin key to the Asset inspection table. This value can be repeated based on the number of photos taken. | | | and then translate/export to GIS formats | .vor.complete) | |
| 7 GhID | GH ID | text(50) | FK | | No | Data does not exist – Changes to data capture tools required | Augmentation of introduction of new data capture tools and processes to capture this information | extraction and translation | |
| | | | | Unique ID or job ID of a grid hardening activity. Foreign key to the Grid Hardening Point and Line tables. This value can be repeated based on the number of photos taken. | | | to capture this information and then translate/export to GIS formats | work complete) | |
| | | | | | | | | | |

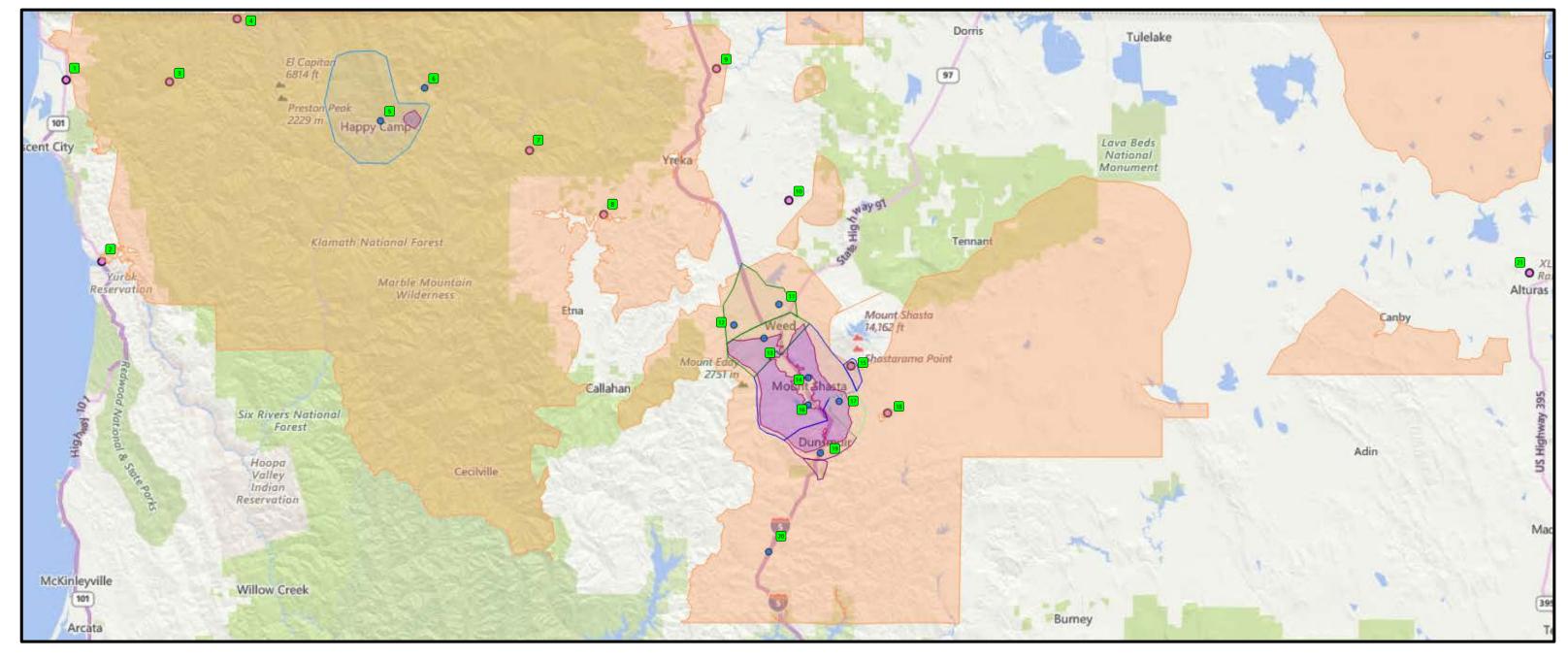
| 8 FromDevice | From Device | text(50) FK | No | Data does not exist – Changes to data capture tools required | introduction of new data (1 year after data capture tools and processes extraction and translation | |
|--------------|-------------|-------------|---|---|--|-----|
| | | | The asset ID for a support structure upstream of an initiative location. This field is to be filled out to help locate initiatives that are along conductor lines or within a polygon based on conductor lines. | | to capture this information work complete) and then translate/export to GIS formats | |
| 9 ToDevice | To Device | text(50) FK | No | Data does not exist – Changes to data capture tools required | Augmentation of "2 years to implement introduction of new data (1 year after data | Yes |
| | | | | | capture tools and processes extraction and translation to capture this information work completel | |
| | | | The asset ID for a support structure downstream of an initiative location. This field is to be filled out to help locate initiatives that are along conductor lines or within a polygon | | and then translate/export to GIS formats | |

| | | WSD Data Schemas Draft V | /2 (2020-09-0 | 09) - Other Rec | quired Data | | | | | |
|-----------------|--|--------------------------------------|-----------------------|------------------|---|---|--|--|---|----------------------------------|
| Point Column | Other Power Line Connection Location Field Name | Alias | Data Type | Charateristic | Description | Data provided in latest submission? (Yes/ No) | Availability Explanations | Data procurement actions | Estimated delivery timeframe | Confidential? (Yes/No) |
| | 1 OpiciD | PPIC ID | text(50) | PK | Unique ID and primary key for the private Power Line Connection Location | No | Data Currently Available in GIS format | translation to new WMP specific data | 2021 WMP | Yes |
| | 2 UtilityID | Utility ID | text(10) | | table. | No | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data | 2021 WMP | Yes |
| | 3 OtherLineOwner | Other Line Owner | text(100) | | Standardized identification name of the utility ("UtilityG&E," etc.). | No | Data Currently Available in GIS format | taxonomy | 2021 WMP | Yes |
| | 4 ConnectionAsset | Connection Asset | text(100) | | Name of individual or other entity that owns the private line to which an electrical corporation line is connecting. | No | Data does not exist – | WMP specific data taxonomy Physical inventory of | ~2 years to implement | Yes |
| | | | | | | | inventory required | with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | | | | be required following completion of data translation and extraction process | | |
| | 5 ConnectionPointAssetID | Connection Point Asset ID | text(50) | | Asset enabling the connection. | No | Data does not exist – inventory required | system consistent | ~2 years to implement (1 year after data | Yes |
| | | | | | | | | with data requirements would be required following completion of data | extraction and translation work complete) | |
| | | | | | AssetID of the asset that enables the connection. Must be traceable stable ID within a specific asset class. | | | translation and extraction process | | |
| | 6 CorporationLineID | Corporation Line ID | text(50) | | | No | Data does not exist – inventory required | system consistent with data | (1 year after data extraction and translation | Yes |
| | | | | | AssetID of the electrical corporation line that feeds energy into or receives | | | requirements would be required following completion of data translation and | work complete) | |
| | 7 OtherLineClass | Other Line Class | text(30) | Domain | energy from the private line. Must be traceable stable ID within a specific asset class. Classification of line asset that meets corporation line at connection | No | Data Currently Available | extraction process | 2021 WMP | Yes |
| | | | | | location. Possible values: Transmission Primary distribution | | in GIS format | translation to new WMP specific data taxonomy | | |
| | 8 HFTDClass | HFTD Class | text(10) | Domain | Secondary Distribution Unknown The CPUC high-fire threat district (HFTD) area the connection location intersects. Possible values: | No | Data Currently Available in GIS format | Data will still require translation to new | 2021 WMP | Yes |
| | | | | | Tier 3 Tier 2 Zone 1 | | | WMP specific data taxonomy | | |
| | 9 County | County | text(50) | | Non-HFTD | No | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | Yes |
| | 10 OtherConductorType | Other Conductor Type | text(10) | Domain | County in which connection location is located. | No | Data does not exist – inventory required | taxonomy Physical inventory of system consistent | (1 year after data | Yes |
| | | | | | | | | be required following | extraction and translation work complete) | |
| | | | | | Type of conductor that connects to corporation line. Possible values: Bare Covered Unknown | | | completion of data translation and extraction process | | |
| | 11 ConnectionType | Connection Type | text(30) | Domain | CHAIDWI | No | Data does not exist – inventory required | Physical inventory of system consistent with data | ~2 years to implement (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data | work complete) | |
| | 12 ConnectionOHUG | Connection OH or UG | text(50) | Domain | Type of energy transfer happening at location. Possible values: Other to corporation Corporation to Other | No | Data does not exist – | translation and extraction process Physical inventory of | ~2 years to implement | Yes |
| | connectionord | Connection on of the | war(3U) | Somain | is the connection overhead or underground? Possible values: | NO | Data does not exist – inventory required | system consistent with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | All Overhead All underground Overhead to underground | | | be required following completion of data translation and | | |
| | 13 OtherNominalVoltagekV | Other Nominal Voltage (kV) | float | | Underground to overhead Unknown | No | Data does not exist – | extraction process Physical inventory of | | Yes |
| | | | | | | | inventory required | system consistent with data requirements would be required following | (1 year after data extraction and translation work complete) | |
| | | | | | Nominal voltage (in kilovolts) of other conductor connected to corporation line. Do not use more than two decimal places. Enter "-99" if N/A.Use -99 if | | | completion of data translation and extraction process | | |
| | 14 OtherOperatingVoltagekV | Other Operating Voltage (kV) | float | | this is not known. | No | Data does not exist – inventory required | | ~2 years to implement (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data | extraction and translation work complete) | |
| | | | | | Operating voltage (in kilovolts) of other conductor connected to corporation line. Do not use more than two decimal places. Enter "-99" if N/A.Use -99 for unknown. | | | translation and extraction process | | |
| | 15 OtherConductorMaterial | Other Conductor Material | text(100) | Domain | Conductor material of other line that connects to corporation line. Possible values: All aluminum conductor (AAC) | . No | Data does not exist – inventory required | system consistent with data | (1 year after data extraction and translation | Yes |
| | | | | | All aluminum alloy conductor (AAAC) Aluminum conductor aluminum reinforced (ACAR) Aluminum conductor steel reinforced (ACSR) Copper (Cu) | | | requirements would be required following completion of data translation and | work complete) | |
| | 16 ConductorMaterialComment | Conductor Material Comment | text(50) | | Unknown other - See comment. | No | Data does not exist – | extraction process | ~2 years to implement | Yes |
| | | | | | | | inventory required | system consistent with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | | | | be required following completion of data translation and extraction process | | |
| | 17 OtherConductorSize | Other Conductor Size | text(30) | | Conductor material not listed in the options above. | No | Data does not exist – inventory required | Physical inventory of | ~2 years to implement (1 year after data | Yes |
| | | | | | | | | with data requirements would be required following completion of data | extraction and translation work complete) | |
| | | | | | Size of other conductor that connects to corporation line (e.g. No. 4 Cu or 1/0 ACSR). Write "Unknown" if this is not known. | | | translation and extraction process | | |
| | 18 OtherConductorOD | Other Conductor Overall Diameter (in | chfloat | | | No | Data does not exist – inventory required | system consistent with data | (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data translation and | work complete) | |
| | 19 OtherConductorCodeName | Other Conductor Code Name | text(50) | | Overall diameter of the other conductor that connects to the corporation conductor in inches. Leave blank if this is not known. | No | Data does not exist – | extraction process | ~2 years to implement | Yes |
| | | | | | | | inventory required | system consistent with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | Codename of the other conductor that connects to the corporation conductor. For example, "Lapwing," "Sparrow," etc. Write "Unknown" if | | | be required following completion of data translation and extraction process | | |
| | 20 ConnectionLastInspectionDate | Connection Last Inspection Date | date | | this is not known. | No | Data does not exist – inventory required | Physical inventory of system consistent | ~2 years to implement (1 year after data | |
| | | | | | | | | with data requirements would be required following completion of data | extraction and translation work complete) | |
| | | | | | Date of the last inspection. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | | | translation and extraction process | | |
| | 21 ConnectionLastMaintenanceDate | Connection Last Maintenance Date | date | | | No | Data does not exist – inventory required | system consistent with data | (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data translation and | work complete) | |
| | 22 ConnectionEstablishmentDate | Connection Establishment Date | date | | Date of the last maintenance. Use YYYY-MM-DD format. Leave blank if unknown. Do not include time. | No | Data does not exist – | extraction process | ~2 years to implement | Yes |
| | | | | | | | inventory required | system consistent with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | Date the connection was established. Use YYYY-MM-DD format. Leave | | | be required following completion of data translation and extraction process | | |
| | 23 ConnectionEstablishmentYear | Connection Establishment Year | integer | | blank if unknown. Do not include time. | No | Data does not exist – inventory required | Physical inventory of system consistent | ~2 years to implement (1 year after data | |
| | | | | | | | | with data requirements would be required following completion of data | extraction and translation work complete) | |
| | | | | | Year of connection establishment. Use four digits. Can be pulled from the "InstallationDate" field with a field calculation. Enter "-99" if unknown. | | | translation and extraction process | | |
| | 24 EstimatedConnectionAge | Estimated Connection Age | text(10) | Domain | The age of the connection in years. Only fill this out if the "ConnectionEstablishmentYear" and "ConnectionEstablishmentDate" values are unknown. Possible values: | No | Data does not exist – inventory required | system consistent with data | ~2 years to implement (1 year after data extraction and translation | Yes |
| | | | | | 0-9 10-19 20-29 30-39 | | | requirements would be required following completion of data translation and | work complete) | |
| | | | | | 40-49 50-59 60-69 | | | translation and extraction process | | |
| | | | | | 70-79 80-89 90-99 | | | | | |
| | 25 OtherUsefulLifespan | Other Useful Lifespan | integer | | >100 Unknown N/A (only enter this if there is a "ConnectionEstablishmentYear" value) | No | Data does not exist – | Physical inventors of | ~2 years to implement | Yes |
| | | | | | | | Data does not exist – inventory required | system consistent with data requirements would | "2 years to implement (1 year after data extraction and translation work complete) | |
| | | | | | The number of years the other line connected to the corporation line is expected to have a useful functioning existence upon initial installation | | | be required following completion of data translation and | • | |
| | 26 OtherAmpacityRating | Other Ampacity Rating | float | | expected to have a useful functioning existence upon initial installation. Use -99 for unknown. | No | Data does not exist – inventory required | system consistent | ~2 years to implement (1 year after data | Yes |
| | | | | | | | , , | with data requirements would be required following | extraction and translation work complete) | |
| | | | | | Nominal amparity ratios of the | | | completion of data translation and extraction process | | |
| | 27 OtherLineGreased | Other Line Greased | text(10) | Domain | Nominal ampacity rating of the other conductor in amperes. | No | Data does not exist – inventory required | Physical inventory of system consistent with data | ~2 years to implement (1 year after data extraction and translation | Yes |
| | | | | | Is the other conductor connected to the corporation line greased to prevent water intrusion? Possible values: | | | requirements would be required following completion of data | extraction and translation work complete) | |
| | 20.001-00- | Others | | | Yes No Unknown | | | translation and extraction process | -2 | We |
| | 28 OtherPowerLineComments | Other Power Line Comments | text(100) | | | No | Data does not exist – inventory required | Physical inventory of system consistent with data requirements would | ~2 years to implement (1 year after data extraction and translation work complete) | Yes |
| | | | | | | | | be required following completion of data translation and | | |
| | | | | | Describe any additional key details that should be known about the connection location. | | | extraction process | | |
| Point Column | Critical Facility Field Name 1 FacilityID | Alias Facility ID | Data Type text(50) | Charateristic PK | Description | Data provided in latest submission? (Yes/ No) Yes | Availability Explanations Data Currently Available | Data procurement actions Data will still require | Estimated delivery timeframe 2021 WMP | Confidential? (Yes/No) Yes |
| | | | | | Unique ID for a specific critical facility. It should be a traceable stable ID within the utility's operations/processes. Primary key for the Critical Facility table. | | in GIS format | translation to new WMP specific data taxonomy | | |
| | 2 UtilityID | Utility ID | text(10) | | P | Yes | Data Currently Available in GIS format | Data will still require translation to new WMP specific data | 2021 WMP | Yes |
| | | | | | | | | taxonomy | | |

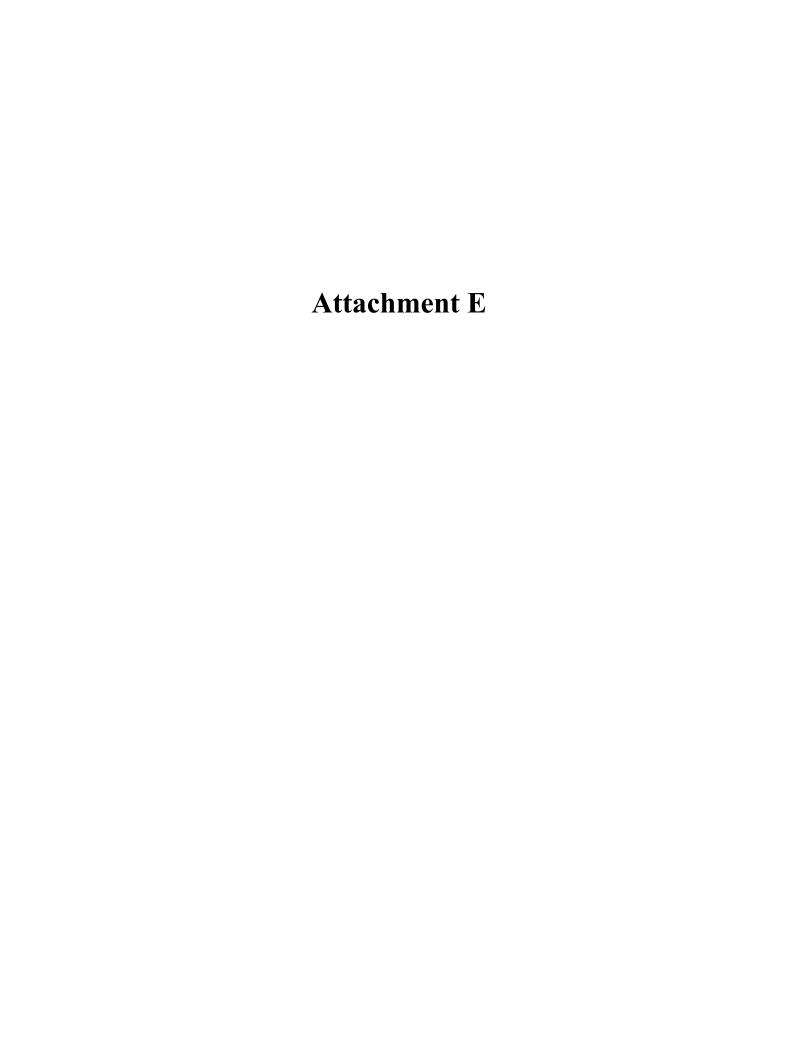
| | 3 FacilityName | Facility Name | text(100) | | | Yes | Data Currently Available in GIS format | Data will still require translation to new | 2021 WMP | Yes |
|--------|---|-----------------------------|----------------------------------|---------------------|--|---|---|---|---|----------------------------------|
| | 4 FacilityCategory | Encility Category | text(30) | Domain | Name of the facility Critical facility category. See examples table below this table for examples | Yes | Data Currently Available | WMP specific data taxonomy | 2024 WMD | Yes |
| | 4 FacilityCategory | Facility Category | text(30) | | of facilities that fall under these categories. Possible values: Chemical Communications | Tes | in GIS format | translation to new WMP specific data taxonomy | 2021 WMP | TG. |
| | | | | | Emergency services Energy Government facilities | | | | | |
| | | | | | Healthcare and public health Public safety answering points Transportation | | | | | |
| | 5 FacilityCategoryComment | Facility Category Comment | text(30) | | Water and wastewater systems Other – See comment. | Yes | Data Currently Available | . Data will still require | 2021 WMP | Yes |
| | 3 racintycategorycomment | racinty Category Comment | text(30) | | | res | | translation to new WMP specific data | ZUZI WWF | |
| | 6 FacilityDescription | Facility Description | text(50) | | Facility category not covered by the options above. | No | Data Currently Available in GIS format | taxonomy Data will still require translation to new WMP specific data | 2021 WMP | Yes |
| | 7 CircuitID | Circuit ID | text(50) | | Brief facility description (e.g., fire station, prison, nursing home, etc.). | No | Data exists but not in GIS format | taxonomy Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 8 CircuitName | Circuit Name | text(255) | | ID of circuit associated with critical facility. | No | Data exists but not in | extraction process Requires data | ~1 year to implement | Yes |
| | 9 MeterID | Meter ID | text(50) | | Name of circuit associated with critical facility, | No | GIS format Data exists but not in | translation and extraction process Requires data | (Prepared for 2022 WMP) ~1 year to implement | Yes |
| | 10 BackupPower | Backup Power | text(10) | Domain | ID of meter associated with critical facility. | No | GIS format Data does not exist – | translation and extraction process Physical inventory of | (Prepared for 2022 WMP) ~2 years to implement | |
| | | | | | | | inventory required | system consistent with data requirements would | (1 year after data extraction and translation | |
| | | | | | Does the facility have a backup power source? Possible values: Yes | | | be required following completion of data translation and | , | |
| | 11 BackupType | Backup Type | text(30) | | No Unknown | No | Data does not exist – | extraction process Physical inventory of | ~2 years to implement | Yes |
| | | | | | Type of backup power source. Possible values: | | inventory required | system consistent with data requirements would | (1 year after data extraction and translation work complete) | |
| | | | | | Storage battery Diesel generator Gas generator | | | be required following completion of data translation and | , | |
| | | | | | Combined/hybrid Other – See comment. | | | extraction process | | |
| | 12 BackupTypeComment | Backup Type Comment | text(30) | | | No | inventory required | system consistent with data | extraction and translation | Yes |
| | | | | | | | | requirements would be required following completion of data | work complete) | |
| | | | | | Backup type not listed in the options above. | | | translation and extraction process | | |
| | 13 BackupCapacity | Backup Capacity | float | | | No | Data does not exist – inventory required | Physical inventory of system consistent with data | ~2 years to implement (1 year after data extraction and translation | Yes |
| | | | | | | | | requirements would be required following | | |
| | | | | | Hours of energy storage of hours of backup generation from backup power | | | completion of data translation and extraction process | | |
| | 14 PopulationImpact | Population Impact | integer | | source. | No | Data does not exist – inventory required | | ~2 years to implement (1 year after data | Yes |
| | | | | | | | | with data requirements would be required following | extraction and translation | |
| | | | | | | | | completion of data translation and | | |
| | 15 HFTDClass | HFTD Class | text(10) | Domain | The approximate number of people that depend on this critical facility The CPUC high-fire threat district (HFTD) area the critical facility intersects. | No | Data exists but not in | extraction process Requires data | ~1 year to implement | Yes |
| | | | | | Possible values: Tier 3 Tier 2 | | GIS format | translation and extraction process | (Prepared for 2022 WMP) | |
| | 16 PSPSDays | PSPS Days | integer | | Zone 1 Non-HFTD | No | Data exists but not in | Requires data | ~1 year to implement | Yes |
| | 17 PSPSDavsDateBasis | | float | | The number of days the critical facility was impacted by PSPS events in the last 365 days. The date used for calculating the "PSPSDays" field. This would be the date | | GIS format Data exists but not in | translation and extraction process Requires data | (Prepared for 2022 WMP) | Yes |
| | | | | | from which 365 days would be subtracted to determine the timespan that may contain critical facility- impacting PSPS events. | | GIS format | translation and extraction process | (Prepared for 2022 WMP) | |
| | 18 ParcelAPN | Parcel APN | text(17) | PK | ID of parcel containing critical facility. Primary key for the Critical Facility | No | | Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 19 Address | Address | text(100) | | table. | No | Data exists but not in GIS format | extraction process Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 20 City | City | text(50) | | The address of the critical facility. | No | Data exists but not in GIS format | extraction process Requires data translation and | ~1 year to implement (Prepared for 2022 WMP) | |
| | 21 Zip | Zip | text(5) | | The city of the critical facility. | No | | extraction process Requires data translation and | | Yes |
| | 22 Latitude | Latitude | float | | The 5-digit zip code of the critical facility. | Yes | Data exists but not in | extraction process Requires data | ~1 year to implement | Yes |
| | 23 Longitude | Longitude | float | | Latitude coordinate of critical facility (in decimal degrees). | Yes | GIS format Data exists but not in GIS format | translation and extraction process Requires data translation and | (Prepared for 2022 WMP) ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | Longitude coordinate of critical facility (in decimal degrees). | | GIS format | extraction process | (Prepared for 2022 WMP) | |
| Column | Red Flag Warning Day Polygon Field Name | | | | Description | Data provided in latest submission? (Yes/ No) | | | Estimated delivery timefra | |
| | 1 RfwID 2 UtilityID 3 FireWeatherZoneID | Utility ID | text(50) text(10) text(50) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes No Yes | Publicly available from I N/A Zones fixed by geograph | N/A | N/A | No N/A No |
| | 4 FireWeatherZoneName 5 RedFlagWarningIssueDate | | text(30) | | Unique ID for a specific point asset. It should be a traceable stable ID within the utility's operations/processes. Start date of the RFW in YYYY-MM-DD format. Do not include time. | ¹ No Yes | | N/A | N/A | N/A |
| | 6 RedFlagWarningIssueTime 7 NumberRedFlagWarningDays | Red Flag Warning Issue Time | date | | | Yes | Publicly available from h Publicly available from h | ntGo to https://mesonet | N/A | No No |
| | 8 RedFlagDaysDateBasis | Red Flag Days Date Basis | float | | The date used for calculating the "NumberRedFlagWarningDays" field. This would be the date from which 365 days would be subtracted to determine | | | | | |
| | Administrative Area | i, | | | the timespan that contained red flag warning days. | | | | | |
| Column | Field Name 1 AdminID | | | Charateristic PK | Description | Data provided in latest submission? (Yes/ No) Yes | Availability Explanations Data exists but not in | Data procurement actions Requires data | Estimated delivery timeframe ~1 year to implement | Confidential? (Yes/No) Yes |
| | 2 UtilityID | | text(10) | | Unique ID and primary key for the Administrative Area table | Yes | GIS format Data exists but not in | translation and extraction process Requires data | (Prepared for 2022 WMP) | Yes |
| | 3 AreaType | | text(50) | | Standardized identification name of the utility ("UtilityG&E," etc.). | Yes | GIS format Data exists but not in | translation and extraction process Requires data | (Prepared for 2022 WMP) | Yes |
| | | Area Type | text(50) | | Type of administrative area (service territory, region, district, etc.) | | GIS format | translation and extraction process | (Prepared for 2022 WMP) | |
| | 4 SubareaType | | text(SU) | | Utility subarea type. Possible values: Operational Construction | Yes | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | Subarea Type | | | Weather Organizational Other - See comment | | | | | |
| | 5 SubareaTypeComment | Subarea Type Comment | text(50) | | Subarea type not listed in the options above. | Yes | GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | 6 Name | | text(100) | | Name of administrative area. | Yes | Data exists but not in GIS format | Requires data translation and extraction process | ~1 year to implement (Prepared for 2022 WMP) | Yes |
| | | | | | | | | , process | | |
| | | | | | | | | | | |



Weather Stations



| Weather Station | PSPS Zone | District Name | Year | Weather Station | PSPS Zone | District Name | Year |
|------------------------------|------------------|----------------------|----------------------|-----------------|------------------|----------------------|------|
| 1 | | Crescent City | 2020 | 11 | Weed | Yreka | 2019 |
| 2 | | Crescent City | 2020 | 12 | Weed | Yreka | 2019 |
| 3 | | Crescent City | 2020 | 13 | Weed | Yreka | 2019 |
| 4 | | Crescent City | 2020 | 14 | Mt Shasta | Yreka | 2019 |
| 5 | Happy Camp | Yreka | 2019 | 15 | Mt Shasta | Yreka | 2020 |
| 6 | | Yreka | 2019 | 16 | Mt Shasta | Yreka | 2019 |
| 7 | | Yreka | 2020 | 17 | Snowbrush | Yreka | 2019 |
| 8 | | Yreka | 2020 | 18 | | Yreka | 2020 |
| 9 | | Yreka | 2020 | 19 | Dunsmuir | Yreka | 2019 |
| 10 | | Yreka | 2020 | 20 | | Yreka | 2019 |
| | | | | 21 | | Alturas | 2020 |
| Installati | ion Year 2019 | ○ In | stallation Year 2020 | Tier 2 | _ т | ier 3 | |



PacifiCorp 2020 Wildfire Mitigation Plan GIS Data and Schema

July 21, 2020















Agenda (Heide Caswell)

- General Introductions & Presentation Overview
- PacifiCorp's California Service Territory
- History of PacifiCorp's Systems Related to WMP Development and Reporting
- Specific Areas Identified:
 - 2.1 GIS Data Communications
 - 2.2 2.4 Asset Data
 - 2.2 General
 - 2.3 Lines
 - 2.4 Points
 - 2.6 Outage Data
 - 2.7 PSPS Data
 - 2.8 & 2.9 Vegetation Inspection and Treatment Data
 - 2.10 Asset Inspection Data
 - 2.11 Grid Hardening Project Data
 - 2.12 Weather & Model Data

Introductions

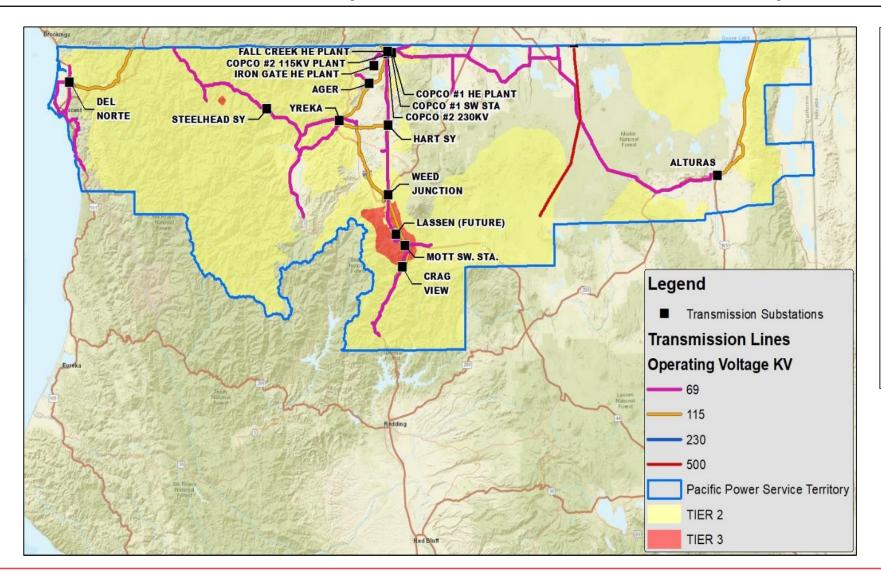
- Heide Caswell, Director of Asset Performance and Wildfire Mitigation
- Marshall Payne, Director of GIS, Mapping, & Data Management
- Amy McCluskey, Director of Asset Management
- Brian King, Director of Environmental and Vegetation Management
- Pooja Kishore, State Regulatory Affairs Manager, California

Overview

- Review background information on service territory, data systems, and evolution of systems
- Provide overview for each major topic area identified
- Focus on information regarding existing available data and processes

Review of PacifiCorp's CA Service Territory

(Heide Caswell)

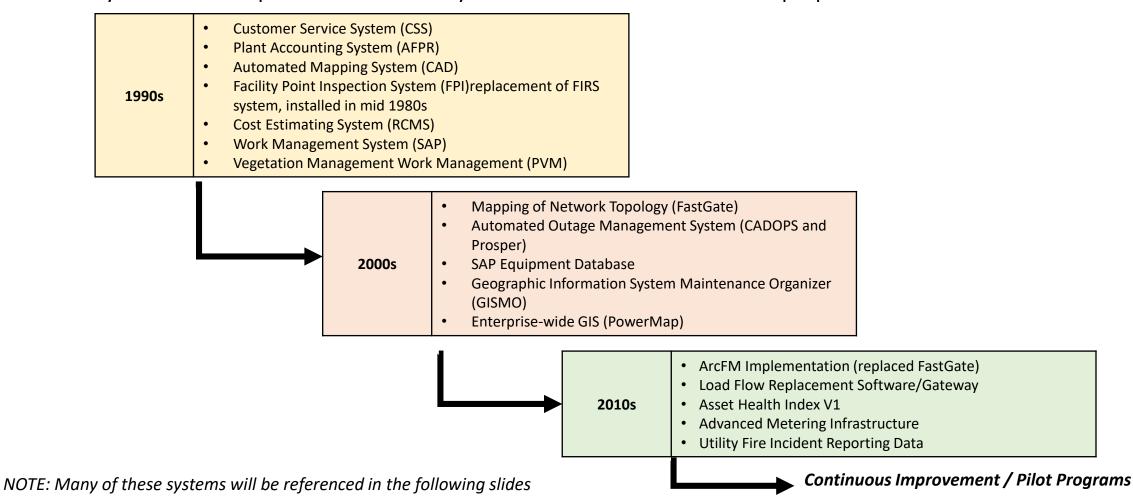


PacifiCorp provides
electricity to
approximately 45,000
customers via
63 substations,
2,520 miles of
distribution lines,
and about 800 miles of
transmission lines
across nearly 11,000
square miles of which
just under half is
classified as HFTD

History of Key Systems Related to WMP

(Heide Caswell)

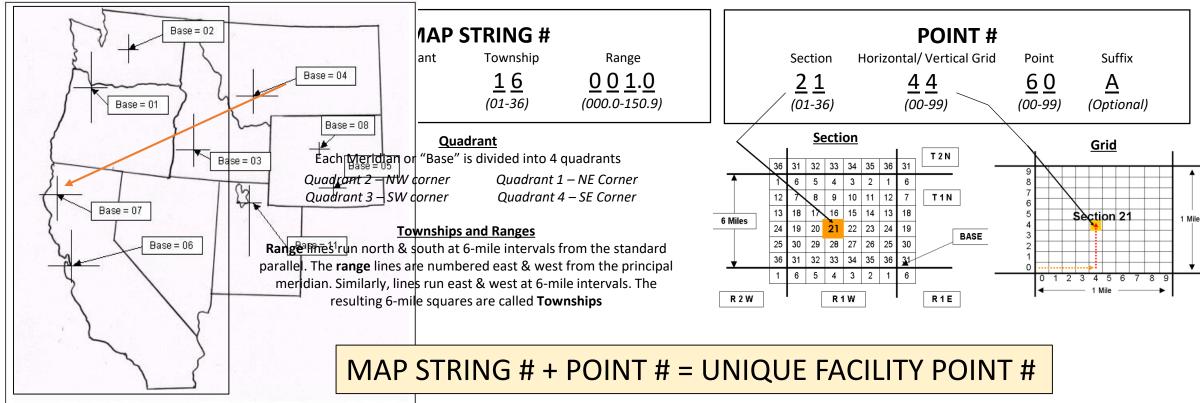
- PacifiCorp leverages a range of key systems and databases related to WMP development and reporting
- These systems were implemented over the years and each serves a different purpose



(Heide Caswell)

- Primary and Secondary Points of Contact for future correspondence related to GIS data:
 - Pooja Kishore: <u>Pooja.Kishore@pacificorp.com</u>
 - Cc: <u>datareq@pacificorp.com</u>

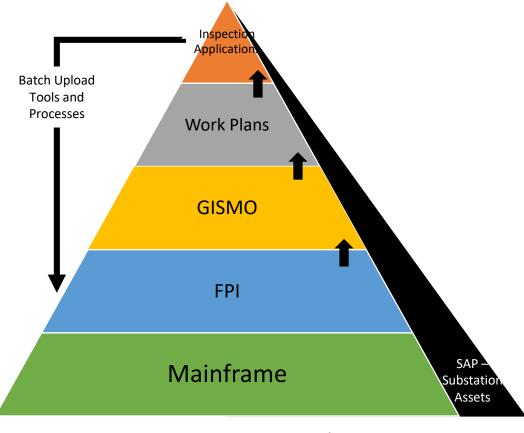
PacifiCorp uses a "Smart Number" location identifier to locate all facilities:



- This is a location identifier not an asset ID (but is often referenced as such).
- The facility point number is created by the mapping system and used in both the mainframe and GIS when construction estimates are completed. It subject to change and it is not the asset ID or FAC ID, which only resides in the mainframe.
- Design/As-built mapping workflow process
- Facilities vs. Connectivity (two systems)

- Backbone of PacifiCorp's asset data is a Mainframe System in use since +/- 1980
- Additional programs and tools have been bolted on over time since 1980 to meet an evolution of needs and requirements
- Now PacifiCorp uses a range of applications, modules, and databases to store various types of asset data

| Database / Source | Permanent Storage of Asset Information | Tool to Facilitate Work | Description |
|------------------------------------|--|-------------------------------|---|
| Inspection Applications | | X | Mix of in-house and external applications that translate the excel based work plans into mobile applications to facilitate planning and completion of inspection work |
| Work Plans | | Х | Excel / Access based tools created from GISMO/FPI data extracts to identify and determine annual inspection requirements |
| GISMO | | Х | Inspection Planning Tool Stores Operational Notes and Updates; Extracts data from FPI to group and determine inspection plans; |
| Facility Point Inspection (FPI) | х | | Module of the mainframe system with customized screens; Main interface and storage of Inspection and Correction records; Additional operational / asset notes can also be stored here |
| SAP | X | | Existence of assets within substations; Inspection and Work Plans; Financial Accounting |
| Mainframe | Х | | Existing of assets, asset attributes (i.e. WOOD pole) Leverages "SMART" numbering system to identify facilities |

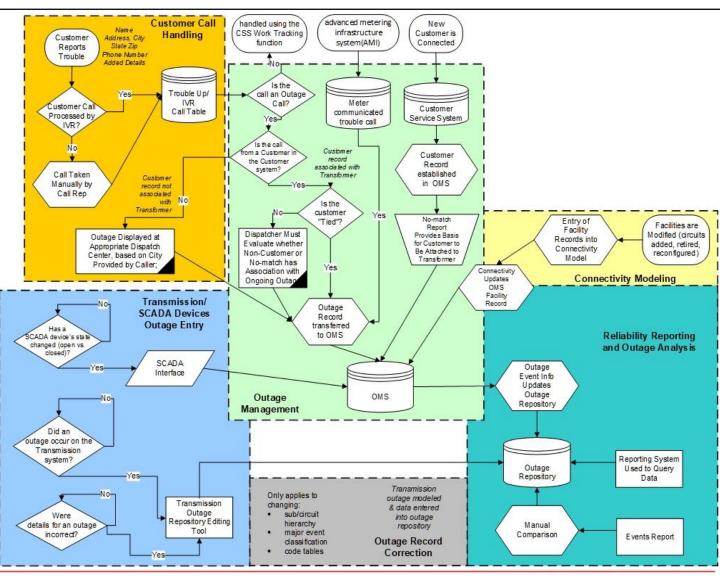


• Asset health reflects a post-processing analysis of many data points and is managed in a separate excel/access database

2.5 Outage Data Cont.

(Heide Caswell)

- PacifiCorp's outage data collection process includes leveraging data from multiple sources:
 - Customer Calls
 - SCADA (system information)
 - AMI (advanced metering infrastructure)
 - Dispatch records / reports
- All of this data is mapped to facility records and stored within OMS, PacifiCorp's Outage Management System
- Data extracts from OMS are used for reporting, analytics, and follow up investigations

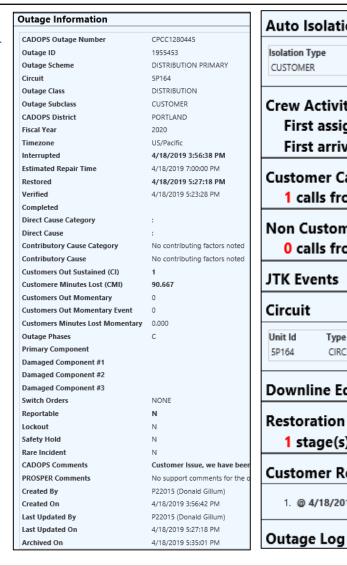


2.5 Outage Data

(Heide Caswell)

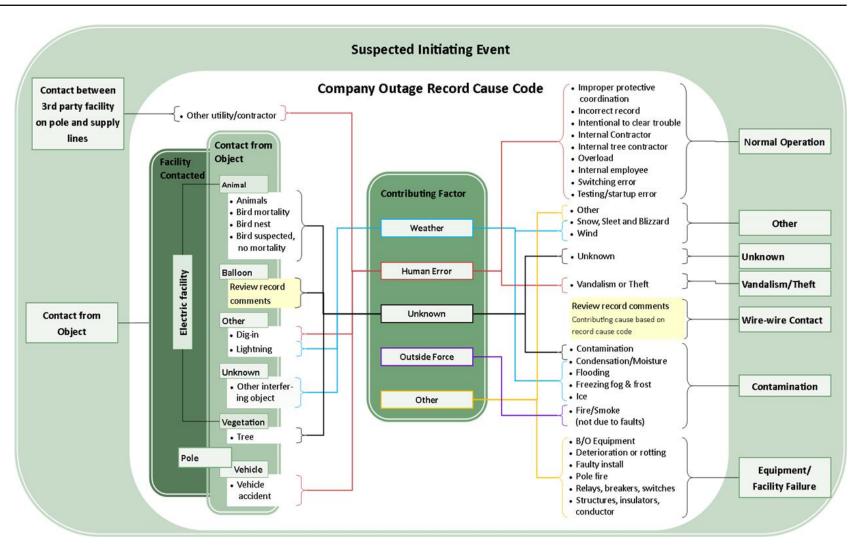
Data Example

 PacifiCorp's data collection is consistent with industry standard (IEEE 1366) and guidelines (IEEE 1782), as well as consistent with prior CPUC Decisions (D96.09.045 and D16.01.008)



| | _ | | | | | | | |
|--|--------------|--|---------------------------|-----------|-------|----------------------|----------------|-------------|
| Isolation 1 | | | Equipment Id | | | | Equipment Type | |
| CUSTOME | :R | | TR_157204_235560246 | | | | Customer | |
| Crew A | Activity | | | | | | | |
| Firs | t assign tii | me: 4/18 | /2019 3:59:10 | PM | | | | |
| Firs | t arrival ti | me: 4/18 | /2019 5:27:18 | РМ | | | | |
| | mer Calls (| | Report) :ustomer(s), w | here 1 cu | stome | er(s) were v | vithout pov | wer (CI). |
| | ustomer C | | mer(s) reporti | ng an ou | tage. | | | |
| JTK Ev | | | | | | | | |
| | ents | | | | | | | |
| JTK Ev | ents | ld | Name | State | kV | Line Miles | Is Active | Activate Da |
| JTK Ev Circuit | ents | | Name MALLORY #2 | _ | - | Line Miles 15.489 | Is Active Y | Activate Da |
| JTK Ev Circuit Unit Id 5P164 | Type CIRCUIT | Id 59164 | | _ | kV | | | Activate Da |
| JTK Ev Circuit Unit Id 5P164 Downl | Type CIRCUIT | Id 5P164 ment | | _ | kV | | | Activate Da |
| JTK Ev Circuit Unit Id 5P164 Downl | Type CIRCUIT | Id 5P164 ment Jes | MALLORY #2 | State | kV | | | Activate Da |
| JTK Ev Circuit Unit Id 5P164 Downl | Type CIRCUIT | Id 5P164 ment Jes | | State | kV | | | Activate Da |
| Unit Id 5P164 Downl Restor | Type CIRCUIT | Id 5P164 ment jes restore al | MALLORY #2 | State | kV | | | Activate l |

- Outage data had been previously analyzed to recognize how outages may reference fire events
- Outage data was reviewed and organized to align with data structure identified using the graphic to the right



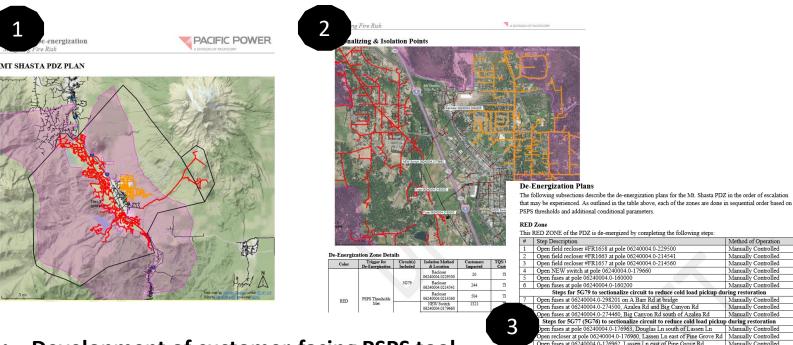
POWERING YOUR GREATNESS

PacifiCorp's processes are aligned with ESRB-8, D.19-05-042, and will continue to be refined to ensure compliance with D.20-05-051

Plans are designed to be in place contingent on specific thresholds that indicate elevated risk (KBDI, FFWI, wind)

Systems have been modified to align with notification

PSPS is intended to be a short-duration risk throughout its extreme risk area



ctive De-energization ating Fire Risk

PACIFIC POWER

Restoration Plans

The following subsections describe the sequence of events required to restore power to critical customers as soon as possible after the implementation of PDZ de-energization event. In all scenarios, the restoration plan has been developed to restore critical customers as soon as possible.

RED Zone Restoration

12 Clc

To restore power to the RED Zone of this PDZ, the following should be completed in sequence.

| # | Step Description | Method of Operation | Cumulative % Critical Cus- tomers Re- stored |
|---|---|------------------------|---|
| | 34 of the 46 critical customers are not in the RED Zone | | 74% |
| | Restoration for 5G79 | | |
| 1 | Patrol all circuitry downstream of field recloser #FR1658 at pole 06240004.0-229500 | Manual | 74% |
| 2 | Close field recloser #FR1658 at pole 06240004.0-229500 | Manual | 74% |
| 3 | Patrol all circuitry downstream of field recloser #FR1663 at pole 06240004.0-214541 to isolation point 298201 | Manual | 74% |
| 4 | Close field recloser #FR1663 at pole 06240004.0-214541 | Manual | 80% |
| 5 | Patrol circuitry beyond fuses 06240004.0-298201 | Manual | 80% |
| 6 | Close fuses at 06240004.0-298201 | Manual | 83% |
| 7 | Patrol all circuitry downstream of field recloser #FR1657 at pole 06240004.0-214560 to open fuses 06240004.0-217060 | Manual | 83% |
| 8 | Close field recloser #FR1657 at pole 06240004.0-214560 | Manual | 89% |
| 9 | Patrol all circuitry beyond fuses 217060 to isolation points 274500 and | Manual | 89% |

Proactive De-energization
Mitigating Fire Risk



Restoration Resource Plan

The following table includes the total required resources to restore the various de-energization zones included in the Jerome Prairie PDZ.

| Zone | Total OH- Line Miles to Patrol | Hours to Pa- trol | Lineman to Patrol | Lineman for Repairs | Add'l Personnel | Total Personnel Required |
|-----------------|--------------------------------------|----------------------|----------------------|------------------------|--------------------|--------------------------------|
| RED | 58.4 miles | 4 | 15 | 3 | 1 | 19 |
| RED & ORANGE | 67.8 miles | 5 | 15 | 3 | 1 | 19 |

NOTE: Vehicle resources required are 15 service trucks for patrol vehicles for a three man crew and 1 logistics truck.

Development of customer-facing PSPS tool

https://www.pacificpower.net/outages-safety/wildfire-safety/public-safety-power-shutoff.html

2.8-2.9 Vegetation Inspection & Treatment Data

(Brian King)

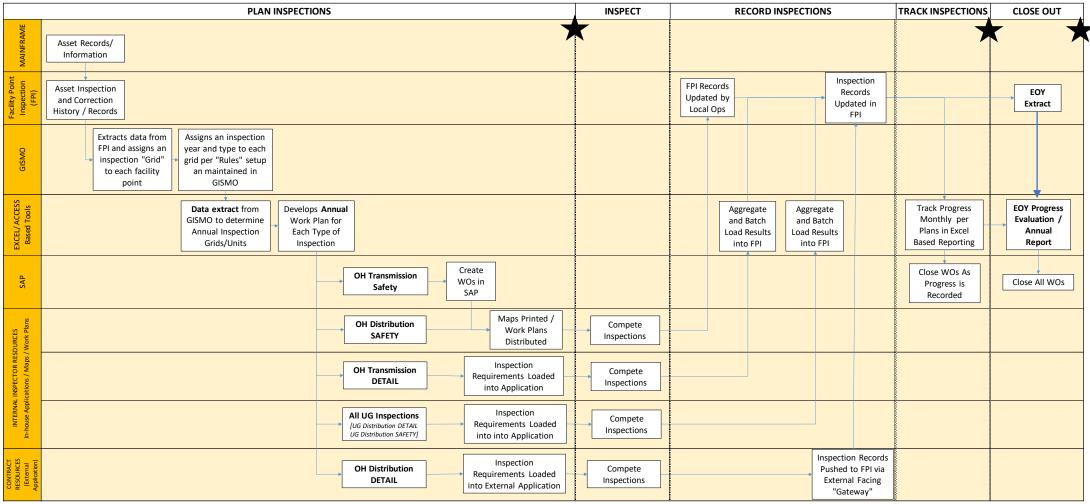
- PacifiCorp Vegetation Management (PVM)
 - PacifiCorp uses a 1990s age application that was converted to Oracle V.18c with web-based interface
 - Current system tracks spend (inspection and treatment) and work completed (treatment) using production data (prunes and removals) by work type (cycle, interim, fire mitigation, etc.)
 - Inspections are conducted to inform treatment work and are conducted at the circuit level.
 - Information is not geospatially referenced (it is identified by circuit).
 - Historical inspection and audit data is not digitally available prior to 2020.

| SAP Business | Inspecti | on Data | | Treatment Data | |
|------------------------------------|----------------------|----------------------|--------------------------------------|---|--|
| Objects | Record of Inspection | Inspection Cost (\$) | Treatment Cost (\$) by Activity Type | Trees Removed (volume) by Activity Type | Trees Prunes (volume) by Activity Type |
| (data aggregated by circuit) | (Yes/No) | | - Cycle - Interim - Fire mitigation | - Cycle - Interim - Fire mitigation | - Cycle - Interim - Fire mitigation |

• New in 2020: MapItFast

- Consistent with the company's 2020 WMP, PacifiCorp is piloting a new externally hosted mobile application to capture work prescribed and completed (georeferenced at the parcel level).
- Program is being phased in throughout 2020
- Digital project record, georeferenced point, line and polygon data (exportable)
 - VMOptix user interface to query project record
- As this program is new, PacifiCorp anticipates it may be refined to support continuous improvement

• PacifiCorp leverages a range of data sources and applications to plan, complete, and record inspections of the company's assets:

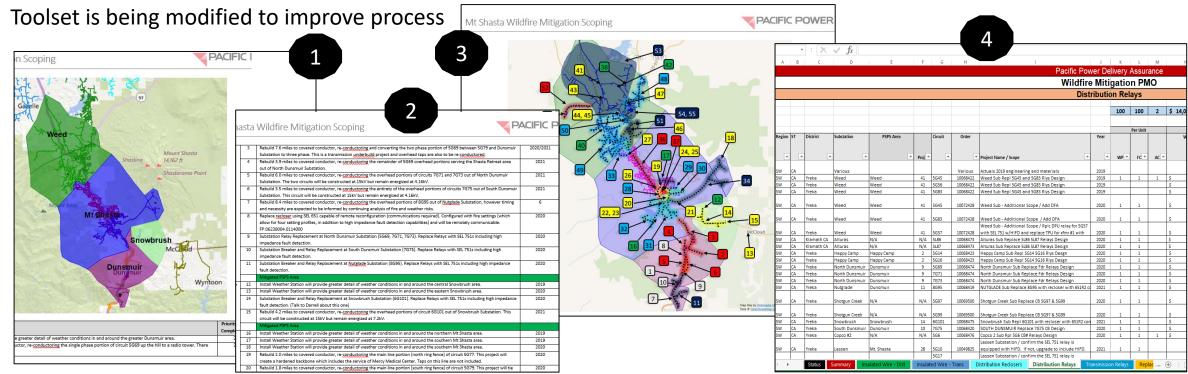


Reflects the need to perform a data extract from multiple non-GIS data sources (FPI, Excel, Mainframe, etc.), map data sources together, translate the data to the prescribed taxonomy, and transfer the data to a GIS based system to meet proposed requirements.

15

- Mitigation Plans have been developed for all areas identified to be at risk for PSPS
- Priorities were established based upon historic PSPS risk duration, combined with impacts to customers and communities, with special consideration to priority (or critical) customers
- Efforts are underway and the data management process is being developed to align with reporting requirements (while recognizing the impacts of reporting cycles on long-term projects)

• Utilizing centrally-housed spreadsheet correlated to geographically-displayable project references



- PacifiCorp calculated the RFW circuit mile days per year as directed
 - Data extracted from <u>https://mesonet.agron.iastate.edu/info/datasets/vtec.html</u>
 - Spatial join to calculate miles of T & D assets
 - Duration (minutes) calculated based on expired-issued; translated to circuit mile days
 - Overhead miles only

Cautions about applying this metric as a measure of success or severity

- 1) PacifiCorp has performed statistical analysis on fires and attempted to correlate to RFW and did not find statistical significance within our service territory (approximately 50% correlation)
- 2) Large geographic spaces are involved in the FWZs in our service territory
- 3) Some cross-state/cross-utility analysis would be beneficial to determine the usefulness of such a measure
- 4) PacifiCorp is advancing the placement of several RAWS-certified stations in its service territory to further support the work done by BLM/NIFC in red flag management
- 5) It's not clear that RFW should be used as a measure of utility fire risk

NORTHERN CALIFORNIA FIRE WEATHER ZONE BOUNDARIES





2.2 Asset Data – General

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? See Slides 8 and 14. Generally, asset data is stored in the asset registry which is a mainframe system.
- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? See Slides 8 & 14.
- c. What is the current size and annual projected growth of this database? The suite of databases are approximately 850 gigabytes; projected growth is unknown.
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. See Slides 8 & 14.
- e. Provide an entity relationship diagram (ERD) for the data. See Slides 8 and 14.
- f. What aspects of this data, if any, are considered confidential? Generally speaking, data that describes the location and presence of an asset is not confidential as this information can be acquired through means such as google Earth or simply walking around. However, once this data turns into sets of data that describe systems, including indication of connectivity or specific attributes such as operating voltage, type of asset such as a recloser, material specification or age, the data becomes confidential. The confidentiality is in place to protect the physical security of the grid and system from malicious cyber **Or** physical attacks.

2.2 Asset Data – General

g. Identify all asset types for which GIS data exists.

The list is a mile long due to sub types/classes, generally including

Poles Primary Conductor

Secondary Conductor Line FusesSwitches Reclosers

• Fault Indicators OH/UG Transformers

Capacitors
 Switch and Fuse Cabinets/Enclosures

Vaults Junction Boxes / Pedestals (secondary)

h. How is asset age data tracked?

Asset age data is generally an attribute in the asset registry in the mainframe system. However, asset age data can sometimes be sparse as PacifiCorp's electric system significantly predates its system of record. Additionally, tracking ages of circuits can be challenging because, after a circuit is constructed, portions of the circuit may be replaced in a manner not consistent with the level of granularity in the asset registry (span vs section).

- i. Identify all asset types for which age data is tracked?
 Poles, substation equipment such as circuit breakers, transformers, relays, etc.
- ii. If age data records are not available, what is the process for estimating asset age?

Generally, PacifiCorp will often use the age of nearby assets, if known, as proxy for the asset in questions. Additionally, PacifiCorp may investigate history of maintenance or inspection records or assume an average where appropriate.

2.2 Asset Data – General

- i. Is asset health recorded in GIS data? If so, identify all asset types and classes (i.e. transmission or distribution) for which asset health is tracked.
 - No, the asset health index is really an excel/access based post-processing analysis which combines data from many sources which are also not GIS based data systems. It combines asset type/design information along with age, operational history, and financial impact to evaluate long tern investment plans.
 - i. For each asset type identified above explain how asset health is determined and how frequently it is updated. Currently asset health is determined categorically to inform risk based spend as indicated in the company's risk based decision making framework.
 - ii. Do processes for assessing asset health differ for different asset types? If so, explain those differences. Not yet fully developed.
 - iii. What factors are considered? Not yet fully developed.
 - iv. What measurements are taken? Not yet fully developed.
 - v. How are these factors and measurements used to assess asset health? Not yet fully developed.
 - vi. What units of measure are used to evaluate asset health? Not yet fully developed.

Currently, factors considered were included in the company's risk based decision making framework and latest GRC. However, PacifiCorp is currently expanding to version 2.0 which will incorporate asset specific evaluation with location specific information. PacifiCorp is planning to incorporate where possible and applicable information such as design type, age, # of operations, # of faults experienced, maintenance history, circuit or substation location, etc. However, this framework, including identification of different datasets/systems, is currently underway and not yet completed.

2.3 Asset Data – Lines (i.e. conductors)

a. Is GIS line data consistently split or otherwise distinguished at all locations where lines convert between overhead and underground? i. What asset types are used to define the points at which line segments transition between overhead and underground?

Yes. GIS data differentiates between OH and UG as an attribute.

- b. Are unique IDs assigned to line segments within the same circuit? No. If so, explain how this is done.
- c. Is splice data tracked? If so, explain how this is done.
 - No. Splice data is not currently tracked in an electronic database.
 - What data attributes related to splices are tracked?
 Not currently tracked in an electronic database.
 - ii. How is the data spatially represented (i.e. an attribute of line data, a point asset with unique ID, etc.)?

 Not currently tracked in an electronic database.
- d. Is connector data tracked? If so, explain how this is done.
 - No. Connector data is not currently tracked in an electronic database.
 - i. What data attributes related to splices are tracked?
 Connector data is not currently tracked in an electronic database.
 - ii. How is the data spatially represented (i.e. an attribute of line data, a point asset with unique ID, etc.)? Connector data is not currently tracked in an electronic database.

2.4 Asset Data – Points

- a. Are assets and equipment defined separately in your GIS data or is equipment considered an asset type? Assets are uniquely defined in the asset registry and may be able to be associated to a specific location referenced in the GIS GIS has a mapped locations for a subset of this information (facilities) and uses a location identifier, but not the asset identifier
 - i. If defined separately, explain what differentiates an asset from equipment and provide a list of all items considered to be equipment. See discussion on slide 8 and answers to 2.2 and 2.3
- b. Are all electric customer meters geolocated to parcel polygons? No.
 - i. If not, are there plans for doing this? No.
 - ii. If planning to do this, what is the approach for accomplishing this effort?
 - iii. If planning to do this, what is the expected timeframe for completing this effort?
 - iv. If planning to do this, what is the status of this effort?
- c. What data attributes are collected for wildfire cameras?
 - i. Is field-of-view analysis conducted for wildfire cameras? If so, explain how this is done. PacifiCorp hasn't placed wildfire cameras and no information about camera view-sheds in its service areas.

2.5 Outage Data

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? Oracle
- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? PacifiCorp's outage reporting database (Prosper) uses a relational database which groups outages at a high level using an outage/restoration_stage/restoration detail model. Please see the "Incidents and Restorations" entity relationship diagram for more details
- c. What is the current size and annual projected growth of this database? The real time OMS is approximately 46 gigabytes, growing at 2%/year, while the outage repository is approximately 175 gigabytes, growing at 9%/year.
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. Every outage from PacifiCorp's Distribution Outage Management System (NMDMS aka "CADOPS") is transferred to the outage reporting database upon completion. Data transfer is in near-real-time, with transfers approximately every 5 minutes. The data transfer method used is XML via Tibco middleware. Outage ETL to transition from the CADOPS data model into the Prosper model is done via custom Oracle software.
- Once Distribution outages are transferred into the Prosper Operational Data Store, a limited group of business administration support personnel have authority to edit outages for accuracy and completeness of reporting information. The Prosper database has a complete set of audit trails and history to capture editing changes. Users with authority to edit outages are segregated by role, from users who have responsibility for reporting outage metrics.
- Transmission outages are manually entered by System Operators directly into the Prosper database. Once an outage is completed, audit trails and editing processes are identical to those used for Distribution outages.
- Reporting for the Prosper Operational Data Store is provided by SAP's Business Objects. Power Users also have the ability to perform ad-hoc queries. See attached document PROSPER_ETL__2010.docx.
- e. Provide an entity relationship diagram (ERD) for the data. Data models are attached to this submittal named Data Model for Subject Area Incidents and Restorations.docx and Data Model for Subject Area Yearly Base Data.docx.
- f. What aspects of this data, if any, are considered confidential? Customer account information
- g. Are outages on the distribution system tracked differently than those on the transmission system? If so, identify all differences and provide the information requested in 2.5a-2.5f for both outage classes. They are stored in the same database (as noted above, PROSPER) but transmission outages are compliant with NERC TADS DRI at https://www.nerc.com/pa/RAPA/tads/Training/TADS_Training_101.pdf

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2.5 Outage Data Continued

h. Identify all supplemental investigations or reviews conducted for certain outage types (i.e. vegetation-caused outages, wire down events, near-ignition events, etc.)?

i. Provide all information requested in 2.5a-2.5f for each supplemental investigation or review identified.

ii. Are outage events (aka trouble call response) the only trigger for the identified supplemental investigations or reviews? Other "investigations" may be undertaken based on inspections or such and are separately discussed.

If not, identify all other manners in which an identified supplemental investigation or review is initiated.

Outage triggers shown at right.

- i. Is the operation of expulsion fuses tracked? No
 If so, provide the following: i. How is this done?
 - ii. Where is this information stored?
 - iii. What data attributes related to the event are tracked?
 - iv. Is expulsion fuse operation always associated with an outage?

| | I | 1 | |
|-------------------|-------------|---------|---|
| Investigation | | | |
| Required * | | | Description |
| False | Sustained | | 2 Breaker or Line Recloser lockouts in one year |
| False | Sustained | | 3 Breaker or Line Recloser lockouts in two years |
| False | Sustained | | 4 Breaker or Line Recloser lockouts in three years |
| False | Sustained | | 2 non-breaker or line relcoser outages in one year affecting at least 500 customers |
| False | Sustained | | 3 non-breaker or line relcoser outages in two years affecting at least 500 customers |
| False | Sustained | | 4 non-breaker or line relcoser outages in three years affecting at least 500 customers |
| False | Sustained | | 4 non-breaker outages in one month (30 days) |
| False | Sustained | Device | 3 non-breaker or line relcoser outages in one year affecting less than 500 customers |
| False | Sustained | Device | 4 non-breaker or line relcoser outages in two years affecting less than 500 customers |
| False | Sustained | Device | 5 non-breaker or line relcoser outages in three years affecting less than 500 customers |
| False | Sustained | Device | Any sustained Animal outage |
| False | Sustained | Device | Any sustained Interference outage |
| True | Sustained | Device | Any sustained Tree outage |
| False | Sustained | Circuit | 2 or more sustained Loss of Supply outage in one year |
| False | Sustained | Device | Any primary underground outage (investigation required) |
| True | Sustained | Device | 3 primary underground outage in one year |
| False | Sustained | Device | 4 primary underground outage in two years |
| False | Sustained | Device | 3 secondary underground outage in one year |
| False | Sustained | Device | 4 secondary underground outage in two years |
| True | Sustained | Device | Any underground primary locking out Breaker or Line Recloser |
| True | Sustained | Device | Any outage with a hold on a Breaker or Line Recloser |
| False | CAIDI | Device | Call to Assign > 60 minutes affecting at least 150 customers |
| False | CAIDI | Device | Assign to Arrive > 60 minutes affecting at least 150 customers |
| False | Momentary | Device | 8 outages in 6 months (183 days) |
| False | Momentary | Device | 10 outages in 9 months (274 days) |
| False | Momentary | Device | 10 outages in 12 months |
| False | Momentary | Device | 12 outages in 12 months |
| False | Momentary | Device | 15 outages in 24 months |
| False | Momentary | Device | 20 outages in 24 months |
| False | Momentary | Device | 25 outages in 36 months |
| False | Momentary | Device | Any momentary Animal outage |
| False | Momentary | Device | Any Momentary Interference outage |
| False | Momentary | Device | Any Momentary Tree outage |
| False | Sustained | Device | Any TripSaver Operation (pilot device) |
| True | CMI Overage | Device | CMI Overage at least 50,000 (CAIDI investigative Rebising of OUR GREATNESS |
| | | | |

2.6 PSPS Data – Events

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? The PSPS plans are stored in a combination of Word documents referencing Excel files for each PSPS area. The involved lines and elements are stored in ESRI, not referenced to parcels, but referenced to spans or modules, with relationship to affected transformers and customers.
- b. How is this data spatially represented (i.e. points, lines, polygons)?
 - i. Can PSPS event line data be provided for specific line segments, if a PSPS event only impacts a portion of a circuit? If so, how are circuit segments identified? Circuit segments are identified by the module of the circuit, with a module being a controllable point of the circuit, involving one or more spans.
 - ii. What is the process for updating PSPS scoping polygons (i.e. areas that could potentially be impacted by a PSPS event) to reflect the actual areas impacted by the PSPS event? How long does this take? The process is similar to the manner in which switching orders are developed and carried out, with specific impact areas identified, an electrical trace performed to distinguish impacted equipment and customers and appropriate lists being prepared based upon that.
 - iii. Can you produce post-PSPS event polygons in accordance with the parcel boundaries impacted by the PSPS event? We can produce polygons that infer the impacted parcels, however there may be slight inaccuracies in such a representation. There will be precision to the impacted customers & their addresses.
- c. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)?
 - i. How are shutoffs occurring at different times during a single PSPS event identified spatially (i.e. polygons representing each phase of event)? They are treated like switching operations with recording of the date/time and the affected customers.
- d. What is the current size and annual projected growth of this database? The various documents are under 100 megabytes.
- e. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. Not available.
- f. Provide an entity relationship diagram (ERD) for the data. Not available.
- g. What aspects of this data, if any, are considered confidential? Circuit equipment and customer account details.

2.7 PSPS Data – Damages

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? No specific database has been used since no PSPS operations have occurred; the company intends to utilize a work observation system which stores in a database that can extract into spreadsheet structure (i.e. Excel).
- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? No detailed structure has yet been established.
- c. What is the current size and annual projected growth of this database? n/a
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. n/a
- e. Provide an entity relationship diagram (ERD) for the data. n/a
- f. What aspects of this data, if any, are considered confidential? None have currently been identified.
- g. Does the business process/protocol for collection of PSPS damage data require accompanying photographs? Not required but often available. The work observation system retains reference to photos.

2.8 Vegetation Inspection Data

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? PVM is a web-based application (url) with backend Oracle database (18c).
- b. b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? Related tables
- c. What is the current size and annual projected growth of this database? Unknown growth, due to an expected replacement project as discussed previously..
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation.
- e. Provide an entity relationship diagram (ERD) for the data.
- f. What aspects of this data, if any, are considered confidential? None.
- g. Is an inventory of trees maintained? No
 - i. What criteria is used to determine whether a tree is an inventory tree and needs to be tracked?
 - ii. Are inventory trees assigned unique IDs?
- h. How is vegetation inspection data spatially represented (i.e. points, lines, polygons)? PVM has no spatial data.
- i. Identify all programs under which vegetation inspections take place.
 - i. Identify all types of vegetation inspections performed. Vegetation inspections take place for cycle and interim maintenance, local and main grid transmission, fire patrols, pole clearing, & customer requests.
- j. How are the results and findings of vegetation inspections scoped into vegetation treatment projects? Vegetation inspections are based on pre-determined specifications for vegetation treatment projects.

2.9 Vegetation Treatment Project Data

Treatment data is handled identical to inspection data, housed within the same system

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data?
- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)?
- c. What is the current size and annual projected growth of this database?
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation.
- e. Provide an entity relationship diagram (ERD) for the data.
- f. What aspects of this data, if any, are considered confidential?
- g. Are all vegetation treatment projects (i.e. trims, removals, brush clearance, etc.) related to vegetation inspections? Yes
- i. If not, identify all other business practices/operations that trigger the initiation of vegetation projects and explain the process by which a vegetation treatment project is created for each identified business practice/operation.
- h. Are before and after photographs required for grid hardening projects? If so, identify the types of grid hardening projects that pictures are required for. No

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a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data?

PacifiCorp uses a range of databases to store information associated with asset inspections. Examples are below.

| Database / Source | Permanent Storage of Asset Information | Tool to Facilitate Work | Description |
|------------------------------------|--|----------------------------|---|
| Inspection Applications | | X | Mix of in-house and external applications that translate the excel based work plans into mobile applications to facilitate planning and completion of inspection work |
| Work Plans | | Х | Excel / Access based tools created from GISMO/FPI data extracts to identify and determine annual inspection requirements |
| GISMO | | Х | Inspection Planning Tool Stores Operational Notes and Updates; Extracts data from FPI to group and determine inspection plans; |
| Facility Point Inspection (FPI) | x | | Module of the mainframe system with customized screens; Main interface and storage of Inspection and Correction records; Additional operational / asset notes can also be stored here |
| SAP | X | | Existence of assets within substations; Inspection and Work Plans; Financial Accounting |
| Mainframe | Х | | Existing of assets, asset attributes (i.e. WOOD pole) Leverages "SMART" numbering system to identify facilities |

Location data lives within GIS. The asset registry lives within a mainframe system, while inspection groupiongs and schedules are located within GISMO and records are located within FPI.

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- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)?
 - Each database/tool which stores asset inspection data is structure differently
 - Location data lives within GIS may be referenced in FPI if lat/long were separately captured during inspection
 - See sample FPI inspection record data extract" below (including asset registry data incorporated)

| FACILITY POINT NAME (Unique location) | Type (Disttibution or Transmission) | OH_UG (Overhead or Underground Distribution Facility) | INSPECTION_DATE | INSPECTOR (Interpreted for Consistency) | INSPECTION_TYPE | LATITUDE | LONGITUDE |
|---------------------------------------|--|--|-----------------|--|-----------------|-------------|--------------|
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 1/25/2019 | JOHN DOE | SAFETY | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 2/5/2019 | JOHN DOE | DETAIL | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 9/23/2019 | JOHN DOE | SAFETY | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 1/25/2019 | JOHN DOE | SAFETY | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 2/5/2019 | JOHN DOE | DETAIL | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214480-A | DISTRIBUTION | UNDERGROUND | 9/23/2019 | JOHN DOE | SAFETY | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214425-A | DISTRIBUTION | OVERHEAD | 8/22/2019 | JOHN DOE | SAFETY | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214425-A | DISTRIBUTION | OVERHEAD | 8/22/2019 | JOHN DOE | PTT | XX.XXXXXXXX | -YYY.YYYYYYY |
| 01216001.0214425-A | DISTRIBUTION | OVERHEAD | 8/22/2019 | JOHN DOE | SAFETY | XX.XXXXXXX | -YYY.YYYYYYY |

NOTE: Sample information is generic and not actual asset or inspection record data – this is a representation of how the data looks

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- c. What is the current size and annual projected growth of this database? Unknown
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. See Slides 8 and 14.
- e. Provide an entity relationship diagram (ERD) for the data. See Slides 8 and 14.
- f. What aspects of this data, if any, are considered confidential?

Generally speaking, data that describes the location and presence of an asset is not confidential as this information can be acquired through means such as google Earth or simply walking around. However, once this data turns into sets of data that describe systems, including indication of connectivity or specific attributes such as operating voltage, type of asset such as a recloser, material specification or age, the data becomes confidential. The confidentiality is in place to protect the physical security of the grid and system from malicious cyber **Or** physical attacks.

g. How is asset inspection data spatially represented (i.e. points, lines, polygons)?

Asset inspection data is stored in the form of completed records saved into FPI, a mainframe type system, or SAP. This data is not spatially retained; it is sometimes represented spatially when joined between the mainframe system data into the geospatial environment.

i. Does this differ for different types of inspections? If so, explain.No. All inspection types are stored in the same manner depending on the type of asset.

h. Identify all programs under which asset inspections take place.

i. Identify all types of asset inspections performed.

SAFETY, DETAIL, and Intrusive Testing of OH/UG facilities

Substation Inspections (which include inspecting equipment inside the fence)

IR Inspections (Pilot program)

LiDAR Inspections (pilot program)

ii. Are the asset inspection types identified above inclusive of all asset inspections discussed in the electrical corporation's 2020 WMP? If not, identify any such asset inspection types.

Yes.

i. Are evaluations of pole loading considered asset inspections?

Indirectly. When intrusive testing is performed on poles, the remaining strength is evaluated. Once the remaining strength is measured at levels that not longer maintain appropriate safety factors, the pole is flagged for corrective work to restore sufficient strength. While not specifically a pole loading calculation, this reflects a calculation of remaining strength which can be used as a proxy to identify whether the pole can adequate maintain the existing load consistent with how and when the structure was installed.

i. If not, why, and how is this data tracked?Tracked inherent to the intrusive testing program.

ii. If so, is data collected or produced from pole loading assessments incorporated into an asset inspection database? Identify the databases.

This activity is performed by an outside contractor. The detailed results are stored in an external database. The results and recommended action, which is indicative of those that do not pass, are stored internally in PacifiCorp's Facility Point Inspection (FPI) database in the form of corrective work records.

2.11 Grid Hardening Project Data

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage this data? Until work is mapped into the company's GIS, the work management process is adhered to. Work is estimated in a relational database, completed into that system to record assets. Thereafter it is updated in the GIS. WMP capital projects are also separately tracked in spreadsheets and Word documents to augment details re scope and other elements not retained initially in the work management system.
- b. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? Various.
- c. What is the current size and annual projected growth of this database? n/a
- d. Provide an extract, transform, load (ETL) workflow detailing the processes involved in data creation/input, transfer, storage, and report generation. n/a
- e. Provide an entity relationship diagram (ERD) for the data. n/a
- f. What aspects of this data, if any, are considered confidential? Electrical equipment and costs if still in competitive bid states.
- g. How is the status of a grid hardening project determined and measured (i.e. percent complete)? Generalized status, I.e. scoping, design, estimating, construction, complete h. Are before and after photographs required for grid hardening projects? If so, identify the types of grid hardening projects that pictures are required for. Not required but generally available.

2.12 Weather & Model Data

- a. Which database format(s) (e.g. Esri geodatabases, Oracle, Access, etc.) is used to store and manage data collected from weather stations?
 - i. How is it structured (i.e. groupings, hierarchies, related tables, attributes collected, etc.)? Data is stored in a variety of ways, none of them geospatial.
 - ii. Provide an extract, transform, load (ETL) workflow detailing the processes involved in weather data creation/input, transfer, storage, and report generation. n/a
- b. Identify all proprietary models and indices (e.g. fire potential index, outage producing winds, etc.) which leverage or rely on weather data. See slide 16.
 - i. For each model/index identified, indicate whether the model/index relies on measured or modeled weather data. All are measured values.
 - ii. For each identified model/index, explain how outputs are produced, grouped/categorized, and leveraged for operational decision-making. Thresholds are statistically determined, and produced for daily comparison of current and upcoming forecasts, and if thresholds are (forecast to be) met, result in PSPS consideration.
- c. Provide an explanation of how the 2020 WMP Guideline parameter of RFW-Circuit mile days was calculated in the electrical corporation's 2020 WMP. See slide 16.