

Liberty 2026-2028 Base WMP Discovery Log																		
Last Updated: 7/17/2025																		
Count	Party Name	DR Set #	Data Request	Question No.	Question ID	Question	Responses	Requestor	Date Received	Final Date Due	Date Sent	Links	Number of Attachments	Attachment Links	NDA Required?	WMP Section	Category	Subcategory
1	OEIS	1	OEIS-P-WMP_2025-Liberty-001	1	OEIS-001-Q01	Q01. Regarding Vegetation Management Inspection Targets: In Table 4-1 of its 2026-2028 WMP, Liberty reports 1,476.9 circuit miles of overhead distribution lines and 32.89 circuit miles of transmission lines, totaling 1,509.79 combined circuit miles of distribution and transmission overhead lines. In Table 9-2, Liberty provides a three-year total of 660 circuit miles for its "Vegetation Management Inspection Program – Detailed" and reports a cumulative quarterly target for 2026 Q4 of 700 circuit miles for its "Vegetation Management Program – LIDAR." In Table 9-3 of its 2026-2028 WMP, for "Vegetation Management Program – Detailed" Liberty lists the "Inspection Type" as "Transmission and Distribution," "Area Inspected" as "Territory," and "Frequency" as "Three-year cycle." In the same table, for "Vegetation Management Program – LIDAR" Liberty lists the "Inspection Type" as "Transmission and Distribution," "Area Inspected" as "Territory," and "Frequency" as "Annual." a. Does the "Three Year Total" target for "Vegetation Management Program – Detailed" include all overhead circuit miles in Liberty's territory? i. If yes, explain the different number of circuit miles reported in Table 4-1 and the "Three Year Total" target for "Vegetation Management Program – Detailed." ii. If not, explain why the targets do not cover all overhead distribution circuit miles in Liberty's territory during the three-year cycle. b. Does the "Cumulative Quarterly Target, 2026 Q4" for "Vegetation Management Program – LIDAR" include all overhead circuit miles in Liberty's territory? i. If yes, explain the different number of circuit miles reported in Table 4-1 and the "Cumulative Quarterly Target, 2026 Q4" target for "Vegetation Management Program – LIDAR." ii. If not, explain the criteria for including and excluding overhead circuit miles from the annual LIDAR program.	a. The target unit for detailed inspections is miles inspected of overhead primary distribution and transmission voltage classes (12kV-25kV, and 60kV-120kV). The target does not include the secondary voltage class distribution lines that are included in Table 4-1. The total miles of overhead primary distribution and transmission circuits is approximately 700 miles. Liberty intends to complete detailed inspections on one third of its overhead primary distribution and transmission system per year. Liberty also inspects secondary lines along its primary distribution system. These secondary line inspections are not included in the target. b. The target unit for LIDAR inspections is miles inspected of overhead primary distribution and transmission voltage classes (12kV-25kV, and 60kV-120kV). The target does not include the secondary voltage class distribution lines that are included in Table 4-1. The total miles of overhead primary distribution and transmission circuits is approximately 700 miles. Liberty intends to complete LIDAR inspections of the total overhead primary distribution and transmission system annually.	Jessica McHale	7/1/2025	7/7/2025	7/7/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-001.pdf			No	9	Vegetation Management and Inspections	
1	OEIS	1	OEIS-P-WMP_2025-Liberty-001	2	OEIS-001-Q02	Q02. Regarding Vegetation Management Procedures: a. Provide the most recent versions of the following procedures documents: i. Vegetation Management Plan (VM-02) ii. Hazard Tree Management Plan (VM-03) iii. Post Work Verification Procedure (VM-04) iv. Vegetation Threat Procedure (VM-05) v. Vegetation Management Notification and Refusal Resolution Policy (VM-06) vi. Vegetation Management Inspection Manual (VM-07) vii. Fire Prevention Plan	a. Refer to attachments "Liberty Response_DR-001-Q02i-vi" and "Liberty Response_DR-001-Q02vii."	Jessica McHale	7/1/2025	7/7/2025	7/7/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-001.pdf	2		No	9	Vegetation Management and Inspections	
1	OEIS	1	OEIS-P-WMP_2025-Liberty-001	3	OEIS-001-Q03	Q03. Regarding Liberty's Pole Clearing Target (WMP-VM-VFM-01): a. On page 170 of its 2026-2028 WMP, Liberty sets annual targets in 2026, 2027, and 2028 of 4,900 poles. On page 182 of its 2026-2028 WMP, Liberty states "[t]here are approximately 4,900 poles that require clearing on an annual basis in SRA and FRA." Of the 4,900 poles targeted for pole clearing, specify how many of those poles: i. Are required to be cleared under Public Resources Code (PRC) 4292 (i.e., poles in the SRA). ii. Are not required to be cleared under PRC 4292 (i.e., poles not in the SRA). b. For any poles not subject to PRC 4292, identify the applicable governing standards and/or Liberty's standard operating procedures that require those poles to be cleared. c. On page 170 of its 2026-2028 WMP, Liberty sets annual targets in 2026, 2027, and 2028 of 4,900 poles. On page 209 of its 2023-2025 Base WMP, Liberty set annual targets in 2023, 2024, and 2025 of 4,960 poles. Provide justification and details of planned or completed activities which support that the volume of pole clearing work required during Liberty's 2026-2028 WMP cycle will decrease by 60 poles.	a. i. Of the approximately 4,900 poles targeted for pole clearing, approximately 4,500 are required to be cleared under Public Resources Code (PRC) 4292. ii. Of the approximately 4,900 poles targeted for pole clearing, approximately 450 are not required to be cleared under Public Resources Code (PRC) 4292. b. The applicable standard that requires Liberty to clear those poles not subject to PRC 4292 is outlined in the Liberty 2026-2028 Wildfire Mitigation Plan, Section 9.4.1. c. Liberty updated its annual pole clearing target to 4,900 to account for fluctuations in poles from ongoing pole replacement work and system upgrades.	Jessica McHale	7/1/2025	7/7/2025	7/7/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-001.pdf			No	9	Vegetation Management and Inspections	
1	OEIS	1	OEIS-P-WMP_2025-Liberty-001	4	OEIS-001-Q04	Q04. Regarding Liberty's Wood and Slash Management Target (WMP-VM-VFM-02): On page 280 of its 2026-2028 Base WMP, Liberty sets annual wood and slash management targets of 280 acres for each year: 2026, 2027, and 2028. On page 183, Liberty states, "Liberty has implemented a Fuel Management Program as a precautionary measure, where feasible, to reduce wildfire risks by removing wood and treating brush and slash after vegetation maintenance is performed. Additional treatments that reduce surface fuels from previous activities and those that further reduce fuel loads are also implemented." a. Provide an outline that describes how Liberty plans to complete vegetation management work to meet its 280-acre annual wood and slash management target. The outline must include: i. The number of acres that will receive wood and slash management treatments only in areas where material was generated by Liberty's own vegetation management activities. 1. Specify the diameter classes of woody vegetation to be treated under these activities and describe how each diameter class will be treated. ii. The number of acres that Liberty will perform additional fuel management work on and treat material that was not generated by Liberty's own vegetation management activities. 1. Specify the diameter classes of woody vegetation to be treated under these activities and describe how each diameter class will be treated.	a. i. Wood and slash management is a component of tree removal work and is dependent upon trees identified in the field during ground-based inspections requiring mitigation, and landowner preference for wood removal. Liberty calculates acres treated based off completed work orders with cleanup methods of 100% removal or cutting wood rounds into firewood lengths. Typically, if work occurs on a residential lot less than 0.25 acres the entire lot size is counted. For larger parcels where wood and slash management work occurs, Liberty calculates the acres treated based on the length of the right-of-way for the span. In instances where wood and slash is treated on more than one tree at a location, Liberty counts the acres for that location only once. Liberty has averaged about 3,350 tree removals per year since 2023 with 51% involving wood management post tree work. To determine its annual target, Liberty forecasts approximate acres treated based off historical numbers. 1. Diameter classes of woody vegetation treated are as follows: • R1: 4.0" < 12" DBH • R2: 12.0" < 24" DBH • R3: 24" < 36" DBH • R4: 36" < 48" DBH • R5: 48" DBH and greater ii. Liberty is unable to forecast the number of acres treated for projects where vegetation material is not generated through its own vegetation management activities. However, Liberty actively develops and manages additional fuel management projects through defined scopes of work and detailed specifications. These projects are implemented in coordination with agency partners and landowners, with acreage calculated based on the specific project footprint. Liberty primarily takes an opportunistic approach, collaborating with local stakeholders to support or contribute to fuel reduction efforts that align with its operational priorities. Liberty will also continue to support the U.S. Forest Service's Forest Resiliency Corridors projects located adjacent to Liberty's infrastructure. 1. Diameter classes of woody vegetation treated are as follows: • R1: 4.0" DBH • R2: 4.0" DBH • R3: 4.0" DBH • R4: 4.0" DBH • R5: 4.0" DBH • R6: 4.0" DBH • R7: 4.0" DBH • R8: 4.0" DBH • R9: 4.0" DBH • R10: 4.0" DBH • R11: 4.0" DBH • R12: 4.0" DBH • R13: 4.0" DBH • R14: 4.0" DBH • R15: 4.0" DBH • R16: 4.0" DBH • R17: 4.0" DBH • R18: 4.0" DBH • R19: 4.0" DBH • R20: 4.0" DBH • R21: 4.0" DBH • R22: 4.0" DBH • R23: 4.0" DBH • R24: 4.0" DBH • R25: 4.0" DBH • R26: 4.0" DBH • R27: 4.0" DBH • R28: 4.0" DBH • R29: 4.0" DBH • R30: 4.0" DBH • R31: 4.0" DBH • R32: 4.0" DBH • R33: 4.0" DBH • R34: 4.0" DBH • R35: 4.0" DBH • R36: 4.0" DBH • R37: 4.0" DBH • R38: 4.0" DBH • R39: 4.0" DBH • R40: 4.0" DBH • R41: 4.0" DBH • R42: 4.0" DBH • R43: 4.0" DBH • R44: 4.0" DBH • R45: 4.0" DBH • R46: 4.0" DBH • R47: 4.0" DBH • R48: 4.0" DBH • R49: 4.0" DBH • R50: 4.0" DBH • R51: 4.0" DBH • R52: 4.0" DBH • R53: 4.0" DBH • R54: 4.0" DBH • R55: 4.0" DBH • R56: 4.0" DBH • R57: 4.0" DBH • R58: 4.0" DBH • R59: 4.0" DBH • 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2	OEIS	2	OEIS-P-WMP_2025-Liberty-002	7	OEIS-002-Q07	<p>Regarding Risk Reduction Values Presented in Table 8-1:</p> <p>a. Some risk reduction values are presented as negative, implying an increase in risk within the service territory.</p> <p>i. Explain if the intent was for these values not to include a negative sign</p> <p>ii. Or clarify why these values have a negative sign</p> <p>b. All risk reductions percentages reported in Table 8-1 should be at a service territory level and should represent how much impact an activity has that year on its service territory. Are the risk reduction values reported in Table 8-1 calculated at a service territory level or circuit/segment level?</p> <p>c. Explain why the anticipated risk reduction for certain activities, such as covered conductor installation, appears to remain constant (e.g., 0.3%) over multiple years despite varying annual circuit mile targets. d. Provide calculations in an Excel file of each calculated risk reduction per year and per activity.</p>	<p>i. The negative values presented in the risk reduction results are outputs from the risk model and reflect statistically non-significant changes in risk. These values do not indicate an actual increase in risk but rather result from the inherent variability in the simulation process.</p> <p>ii. The model, developed by Direxion, employs a stochastic simulation methodology. This approach incorporates randomness to account for uncertainty in future outcomes. Each scenario is simulated 100 times, and in each iteration, the probability of a risk event is randomly selected at the segment level. This process generates a distribution of risk values for each investment scenario.</p> <p>Negative values may occur when the investment level is insufficient to produce a consistent and measurable reduction in risk across all simulated futures. In such cases, small improvements may be obscured by the variability introduced through random sampling. As a result, the average risk reduction may appear negative, even though the initiative does not increase risk. Instead, the model is indicating that the effect is not statistically distinguishable from zero.</p> <p>When all initiatives are simulated in combination, the cumulative investment demonstrates a clear and consistent reduction in risk. However, when initiatives are evaluated individually, their isolated impact at the service territory level may be too small to register as statistically significant within the model's variability. Increasing the number of simulation iterations could reduce this variability, as the average risk values tend to converge with more runs.</p> <p>b. The risk reduction values reported in Table 8-1 are calculated at a service territory level.</p> <p>c. Risk reduction was calculated and reported in Table 8-1 as a three-year average over the 2026-2028 Wildfire Mitigation Plan.</p> <p>d. Please refer to attachment "Liberty Response_DR-002-Q07" for the results of the simulations of each calculated risk reduction per year and per activity. Additional information regarding calculations is provided in Section 2.2: Utility Risk Model of the Phase 3 Implementation of DIREXON Suite and WMP Support (2025) Final Report.</p>	Jessica McHale	7/3/2025	7/9/2025	7/9/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-002.pdf	1	No	5	Risk Methodology and Assessment	
2	OEIS	2	OEIS-P-WMP_2025-Liberty-002	8	OEIS-002-Q08	<p>Regarding Traditional Overhead Hardening (WMP-GDOM-GH-05):</p> <p>On page 123 of its 2026-2028 Base WMP, Liberty states, "Traditional overhead hardening typically includes installation of stronger poles, modern conductor, shorter spans, increased phase spacing, reduced sag, and hardware upgrades such as brackets, crossarms, insulators, fuses, and arrestors." Additionally, in Table 8-1, Liberty's three-year target for its traditional overhead hardening activity is 3.3 circuit miles.</p> <p>a. Provide a complete description of the scope of work planned for the 3.3 circuit miles of this activity.</p> <p>i. What percentage of these miles will replace existing bare wire conductor?</p> <p>ii. Explain what "modern conductor" means, and how this conductor differs from the existing conductor being replaced.</p> <p>iii. Explain how covered conductor differs from "modern conductor." Include a description of the insulation Liberty uses for covered conductor.</p> <p>b. Additionally, on page 124 of its 2026-2028 Base WMP, Liberty states that "traditional overhead hardening remains a cost-effective and versatile approach, particularly in areas where forest density or terrain constraints make covered conductor or undergrounding less feasible."</p> <p>i. Explain why it is not feasible to replace the existing bare wire conductor with covered conductor in these locations.</p> <p>c. Lastly, in its response to ACI LU-238-06 (Effectiveness of Sensitive Relay Profile ("SRP") and Traditional Hardening), Liberty noted "Normal Replacement Baseline" as a project (Appendix D, Table 1-2: Comparison of Risk Calculations).</p> <p>i. Explain how "Normal Replacement Baseline" is the same or different compared to traditional overhead hardening activity.</p>	<p>i. The 3.3 circuit miles of traditional overhead hardening planned will consist of targeted rebuilds of existing overhead electric distribution lines in high fire threat districts (HFTDs). The scope of work includes:</p> <ul style="list-style-type: none">• Replacement of aging or undersized poles with stronger poles rated for higher wind and loading conditions.• Replacement of aged, damaged, or inadequate hardware such as insulators, crossarms, brackets, fuses, and arrestors.• Installation of modern conductor (ACSR) to replace aging conductor. <ul style="list-style-type: none">• Shortening of spans, where feasible, to reduce mechanical stress and potential conductor slap.• Increasing phase spacing and reducing sag to minimize the potential for line-to-line contact or conductor-to-vegetation interactions. <p>This scope is aimed at improving mechanical integrity and electrical reliability in areas where more advanced mitigation strategies (e.g., covered conductor or undergrounding) are constrained by terrain, environmental, or economic considerations.</p> <p>Approximately 90–100% of the 3.3 circuit miles will involve the replacement of existing bare wire conductor. Traditional overhead hardening efforts under this initiative are generally tied to full-line segment rebuilds, which include the removal of degraded bare wire and installation of modern alternatives.</p> <p>ii. "Modern conductor" refers to bare wire conductor that meets current electrical and mechanical standards for strength, ampacity, and durability. Liberty's standard is ACSR.</p> <p>iii. Covered conductor is ACSR tree wire with a polyethylene jacket. This jacket helps reduce ignition risk from wire slap and incidental vegetation contact, but it is not considered insulated by NESC, and standard spacing requirements still apply. In contrast, "modern conductor" refers to bare ACSR (as described above) that meets the current standards for strength, corrosion resistance, and ampacity, but has no outer jacket. Liberty uses both types, depending on site conditions.</p> <p>b.</p> <p>i. Covered conductor is typically used in dense forest areas where it's not feasible to widen crossarms or increase pole heights due to environmental constraints, such as dense terrain. Instead, currently, Liberty is not piloting or evaluating specific emerging grid hardening technologies. As a smaller utility with limited resources, Liberty leverages research and pilot results from larger IOUs to inform the future adoption of technologies. Liberty actively participates in joint IOU calls and working groups to stay aligned with proven, cost-effective technologies.</p>	Jessica McHale	7/3/2025	7/9/2025	7/9/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-002.pdf	No	8	Grid Design, Operations, and Maintenance		
2	OEIS	2	OEIS-P-WMP_2025-Liberty-002	9	OEIS-002-Q09	<p>Regarding Emerging Grid Hardening Technology Installations and Pilot Progress:</p> <p>On page 125 of its 2026-2028 Base WMP, Liberty states that it "is not currently piloting additional grid hardening technologies and at this time does not have new emerging technologies to report in its 2026-2028 WMP."</p> <p>a. What additional grid hardening technologies, if any, were considered for piloting and why did Liberty decide not to pursue them for piloting?</p>	<p>a. Liberty assumed a 50% reduction in the Probability of Ignition (POI) for covered conductor in its 2026–2028 Wildfire Mitigation Plan based on a combination of factors, including subject matter expertise, joint IOU working groups, and industry research. This assumption reflects a conservative estimate of mitigation effectiveness, consistent with findings from the Joint IOU Covered Conductor Effectiveness Workstream, which included lab testing, field data, and SME input.</p> <p>Additional supporting references include:</p> <ul style="list-style-type: none">• TDWorld: Covered Conductor – A Wildfire Mitigation Solution• Edison: Insulated Wires Help Reduce Wildfire Risk• Marmon Utility: Wildfire Mitigation with Aerial Covered Conductor• ITI Khargharu: High Voltage Lab – Covered Conductor Behavior <p>While some sources suggest higher ignition reduction potential, Liberty selected a conservative 50% reduction to avoid overestimating mitigation benefits in its risk model.</p> <p>b. The explanations and documentation to support each of the reductions listed are provided in Section 8.1, Annex 1: Conductor Failure model and vegetation of the Phase 3-Implementation of DIREXON Suite and WMP Support (2025) Final Report.</p>	Jessica McHale	7/3/2025	7/9/2025	7/9/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-002.pdf	No	8	Grid Design, Operations, and Maintenance		
2	OEIS	2	OEIS-P-WMP_2025-Liberty-002	10	OEIS-002-Q10	<p>On page 118 of its 2026-2028 Base WMP, Liberty states that "when a conductor is covered, it is assumed that the Probability of Ignition (POI) calculated by Technosylva is reduced to account for the effectiveness of the mitigation strategy. For bare conductors, the electrical fire probability remains equal to the POI provided by Technosylva. For covered conductor, the POI is reduced by 50% based on the assumed effectiveness of the activity." On page 119 of its 2026-2028 Base WMP, Liberty provides cause-specific reductions used in the model (i.e. "60% reduction in corrosion-related failures," "20% reduction in lightning-related failures," etc.).</p> <p>a. How was the 50% POI reduction determined?</p> <p>i. Provide an explanation and documentation to support this reduction percentage. iv. "70% reduction in animal-related failures"</p> <p>v. "75% reduction in tree-related failures"</p> <p>vi. "40% reduction in unknown causes"</p> <p>b. Explain how each of the following cause-specific reductions were determined. For each reduction percentage listed below, provide explanations and documentation to support these figures:</p> <p>i. "60% reduction in corrosion-related failures"</p> <p>ii. "20% reduction in lightning-related failures"</p> <p>iii. "10% reduction in mechanical failures"</p>	<p>a. Liberty assumed a 50% reduction in the Probability of Ignition (POI) for covered conductor in its 2026–2028 Wildfire Mitigation Plan based on a combination of factors, including subject matter expertise, joint IOU working groups, and industry research. This assumption reflects a conservative estimate of mitigation effectiveness, consistent with findings from the Joint IOU Covered Conductor Effectiveness Workstream, which included lab testing, field data, and SME input.</p> <p>Additional supporting references include:</p> <ul style="list-style-type: none">• TDWorld: Covered Conductor – A Wildfire Mitigation Solution• Edison: Insulated Wires Help Reduce Wildfire Risk• Marmon Utility: Wildfire Mitigation with Aerial Covered Conductor• ITI Khargharu: High Voltage Lab – Covered Conductor Behavior <p>While some sources suggest higher ignition reduction potential, Liberty selected a conservative 50% reduction to avoid overestimating mitigation benefits in its risk model.</p> <p>b. The explanations and documentation to support each of the reductions listed are provided in Section 8.1, Annex 1: Conductor Failure model and vegetation of the Phase 3-Implementation of DIREXON Suite and WMP Support (2025) Final Report.</p>	Jessica McHale	7/3/2025	7/9/2025	7/9/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-002.pdf	No	8	Grid Design, Operations, and Maintenance		
2	OEIS	2	OEIS-P-WMP_2025-Liberty-002	11	OEIS-002-Q11	<p>Regarding Fire Risk Maps:</p> <p>On pages 68-69 of its 2026-2028 Base WMP, Liberty provided Figures 5-4 and 5-5 showing Fire Risk Maps.</p> <p>a. Provide higher quality and high-resolution files as a PDF for Figures 5-4 and 5-5 that clearly show the differentiated sections on the maps.</p>	<p>Refer to attachment "Liberty Response_DR-002-Q11"</p>	Jessica McHale	7/3/2025	7/9/2025	7/9/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-002.pdf	1	No	5	Risk Methodology and Assessment	
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	1	OEIS-003-Q01	<p>Regarding Unplanned Distribution System Outages from Jan 1, 2023, to Dec 31, 2024:</p> <p>a. From January 1, 2023, to December 31, 2024, provide the following:</p> <p>i. A list and description of each distinct cause code attributed to an unplanned distribution outage.1</p> <p>ii. The average number of distribution poles in Liberty's service territory.</p> <p>iii. The total number of unplanned distribution outages in Liberty's service territory.</p> <p>iv. The number of unplanned distribution outages caused by vegetation contact.</p> <p>v. The number of unplanned distribution outages caused by vegetation contact during major event days.</p> <p>vi. The number of unplanned distribution outages caused by equipment failure.</p> <p>1. Provide the number of unplanned distribution outages caused by vegetation contact during major event days.</p> <p>ii. In an Excel file attachment(s), provide the data Liberty used to determine the number of outages in tabular form.</p>	<p>i. Refer to attachment: "Liberty Response_DR-003-Q01.i"</p> <p>ii. 25,000</p> <p>iii. 634</p> <p>iv. 105</p> <p>v. 6</p> <p>vi. 213</p> <p>a. 2</p> <p>vi. Refer to attachments: "Liberty Response_DR-003-Q01.v(1)" and "Liberty Response_DR-003-Q01.v(2)"</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-003.pdf	3	No	8	Grid Design, Operations, and Maintenance	
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	2	OEIS-003-Q02	<p>Regarding Total Utility Risk:</p> <p>On page 41 of Liberty's 2026-2028 Base WMP and page 7 of the Direxion report (Attachment B1), there are two figures depicting the components of total Utility Risk.</p> <p>a. Explain why Figure 5-2: RBDM Framework (Liberty's Base 2026-2028 WMP, page 41) includes an additional "Asset Failure Risk" while the Utility Risk calculation in Section 5.2.2.3 (Liberty's Base 2026-2028 WMP, page 49) does not include that risk.</p> <p>b. Explain why Figure 5-2: RBDM Framework (Liberty's Base 2026-2028 WMP, page 41) and Figure 3: Overview of the Risk Framework for Liberty Utilities in DIREXON (Attachment B1, Direxion Report, page 7) seem to be depicting different frameworks for Liberty's risk modeling.</p> <p>i. Describe the differences depicted, and why such differences exist.</p> <p>ii. Which figure more accurately depicts Liberty's risk modeling framework?</p>	<p>a. Figure 5-2 presents a conceptual overview of the Risk-Based Decision-Making Framework, which includes Asset Failure Risk, Fire Risk, and PSPS Risk. Section 5.2.2.3 defines Utility Risk as the average of Fire Risk and PSPS Risk. Asset Failure Risk is not included in the utility risk formula, because its effects are already embedded in the components of Fire Risk and PSPS Risk. Asset Failure Risk is a supporting diagnostic tool, used to identify and prioritize mitigations that reduce Fire or PSPS Risk.</p> <p>b. Figure 5-2 is broader and is a depiction of how Asset Failure Risk is a supporting diagnostic tool. Asset Failure Risk is used to support decision making for identifying and prioritizing mitigations that reduce Fire Risk or PSPS Risk. The figure in the DIREXON Report is focused on the simulation logic, where Asset Failure Risk is not a standalone output but a driver of failure probabilities.</p> <p>c. Asset Failure Risk is a foundational input, not a final output in the Utility Risk formula. The two figures reflect different layers of the same framework. Figure 5-2 of the WMP is a strategic overview outlining the full RBDM Framework. Figure 3 of the DIREXON Report is more precise when considering computational modeling and simulation logic.</p> <p>ii. Both figures are accurate, but for different purposes. Figure 5-2 of the WMP is more accurate for understanding the full strategic framework, including how Asset Failure Risk informs mitigation planning. Figure 3 of the DIREXON Report is more accurate for understanding the computational model used to generate risk scores.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-003.pdf	No	5	Risk Methodology and Assessment		
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	3	OEIS-003-Q03	<p>Regarding Probability of Ignition:</p> <p>On page 43 of Liberty's 2026-2028 Base WMP, POI is noted as synonymous with "burn likelihood" and "WL," which Energy Safety assumes stands for Wildfire Likelihood. However, on page 64 of Liberty's 2026-2028 Base WMP, the WL row of the table says the Probability of Ignition is an input. On page 43 of Liberty's 2026-2028 Base WMP, the "Probability of Fire" (POF) is equated with "WC," which Energy Safety assumes stands for Wildfire Consequence.</p> <p>a. Provide clarification on the difference between POI and WL, as used in Liberty's WMP. b. Clarify if the POI calculated by Technosylva is derived from the APF (probability of asset failure) and weather sampling from Technosylva (mentioned in the Direxion report, Appendix B1, page 22).</p> <p>c. Describe why scaling of the POF (formula from Liberty's 2026-2028 Base WMP, page 44) is based on the 80th percentile of the POF.</p>	<p>a. Probability of Ignition (POI) is derived from Technosylva FireSight. POI represents the likelihood that an ignition source, such as a failed asset, will result in a fire requiring suppression. It is a static metric calculated at specific ignition points. Wildfire Likelihood (WL) is a Direxion Risk Asset Tool (DRAT) module that incorporates POI as an input to the WL module. WL also incorporates condition modifiers to produce a refined asset-specific version of POI that is adjusted for asset conditions and status of mitigation actions.</p> <p>b. The POI from Technosylva is not derived from Probability of Asset Failure.</p> <p>c. The scaling of POF is based on the 80th percentile of POF to increase the sample size of events that could occur. Liberty made the decision to make the risk model less risk adverse to show POF on a slightly broader spectrum to magnify risk. This decision was made for reasons due to the small pool of data relating to utility caused ignitions in Liberty's service territory.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-003.pdf	No	5	Risk Methodology and Assessment		
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	4	OEIS-003-Q04	<p>Regarding SRP Risk:</p> <p>On page 114 of Liberty's 2026-2028 Base WMP, the 2026 target for SRP implementation in the HFRA is listed as 100%. SRP is not currently included in the Utility Risk total but is included in a separate Outage Program total.</p> <p>a. Clarify if that means SRP has already been implemented in 2025.</p> <p>b. Explain why SRP risk was not included in Utility Risk at this time.</p> <p>c. Is Liberty planning on including SRP risk in future iterations of its risk modeling?</p> <p>i. If so, provide an approximate timeline for when Liberty plans to have this completed.</p> <p>ii. If not, describe why not, including any existing roadblocks.</p>	<p>a. 100% of circuits will have SRP implemented by the end of 2025.</p> <p>b. SRP (Sensitive Relay Profile) risk is included in Liberty's Utility Risk calculation, though it is not labeled explicitly as "SRP risk." Instead, it is represented as EPS (Enhanced Powerline Safety Settings) availability within the PSPS Likelihood module of the DIREXON Risk Assessment Tool (DRAT). In the model, SRP is treated as a conditional circuit-level characteristic and is integrated into Utility Risk through its influence on PSPS Likelihood.</p> <p>c. SRP is already included in Liberty's risk modeling.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%2000EIS-P-WMP_2025-Liberty-003.pdf	No	8	Grid Design, Operations, and Maintenance		

3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	5	OEIS-003-Q05	<p>Regarding Risk Equations:</p> <p>a. On page 10 of the Direxcon report (Appendix B1), it describes how SMEs decided that P5PS and Wildfire should be each weighted 50% so that the final risk score ends up being the average. Explain why the P5PS and Wildfire risk scores are averaged instead of summed.</p> <p>b. On page 47 of Liberty's 2026-2028 Base WMP, the consequence scores are described as averages. Explain why the Wildfire and P5PS consequence scores for each attribute are averaged instead of summed.</p> <p>c. Page 45 of Liberty's 2026-2028 Base WMP lists the PEDS Outage likelihood equation. Provide a calculation example for this equation.</p> <p>d. Explain why Liberty uses a P5PS safety factor of 1.5e-9 deaths per 30 minutes Customer Minutes Interrupted (CMI) (Liberty's 2026-2028 Base WMP, page 47).</p> <p>e. Describe how the P5PS Safety Multiplier equation was developed (Liberty's 2026-2028 Base WMP, page 47).</p> <p>f. On page 30 of the Direxcon report (Appendix B1) and page 47 of Liberty's 2026-2028 Base WMP, the formula for reliability consequence includes a "Customer Count." Clarify if this count is per circuit or total service territory count.</p>	<p>a. The approach of averaging the P5PS and Wildfire risk was chosen to provide equal weighting for balanced risk representation. It was determined that both P5PS and Wildfire risks are critical and should be treated with equal importance in Liberty's risk framework. Averaging the two prevents either risk type from disproportionately dominating the Utility Risk score. Because the two risks are calculated using different models and metrics, averaging provides a normalized Utility Risk score on a consistent scale, making it easier to compare across circuits and initiatives. Summing the scores could result in inflated values that exceed the intended scale of the model, especially since both components are already scaled independently. This would reduce the interpretability and usability of the risk scores in prioritization and planning.</p> <p>b. The average is taken to normalize to a common scale from 0 to 1 so that the metrics can be implemented into the total risk without any circuit disproportionately influencing the final score. c. The formula for PEDS Outage Likelihood is:</p> <p>$1 - (1 - (\text{Avg APF} \times \text{Probability of 95th Percentile Weather})) \times \text{Count of Assets}$</p> <p>A sample calculation using hypothetical values is:</p> <ul style="list-style-type: none">• Average Probability of Asset Failure (Avg APF) = 0.02• Probability of 95th Percentile Weather = 0.05• Count of Assets on the Circuit = 50 <p>$1 - (1 - (0.2 \times .05))50 = 0.0488$</p> <p>d. Liberty uses a P5PS safety factor of 1.5x10⁻⁹ fatalities per 30 minutes of Customer Minutes Interrupted (CMI) to quantify the safety consequence of P5PS events in its Multi-Attribute Value Function (MAVF) model. The safety factor reflects the statistical likelihood of fatality due to power outages, particularly for vulnerable populations such as medical baseline or critical infrastructure customers. The safety factor enables Liberty to incorporate human impact into its P5PS risk modeling in a consistent, data-driven manner. It supports the calculation of expected fatalities as part of the safety attribute in the MAVF framework, which is then combined with reliability and financial impacts to produce a normalized risk score.</p> <p>e. The P5PS safety multiplier equation was developed for Liberty by Anon, a risk modeling</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-003.pdf			No	5	Risk Methodology and Assessment	
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	6	OEIS-003-Q06	<p>Regarding Population Impact:</p> <p>On page 45 of Liberty's 2026-2028 Base WMP, the Safety Consequence for wildfire is listed as dependent on "Population Impact: the total population impacted by the simulation footprint" from Technosylva. In the Risk Modeling Working Group, other utilities have discussed using a linear multiplier to estimate fatalities per building destroyed within the simulation footprint. a. Is Liberty planning on estimating fatalities as part of measuring the population impact?</p> <p>i. If so, provide a plan or timeline for how Liberty will shift to estimating fatalities in the wildfire safety consequence.</p> <p>ii. If not, explain why, including how such impacts are captured within Liberty's current risk assessment methodologies.</p>	<p>a. Liberty uses a linear approach of 1 fatality per 260 buildings structures destroyed in its MAVF model.</p> <p>i. Liberty is not currently planning to estimate fatalities based on population impact.</p> <p>ii. Fatalities are estimated using a linear multiplier applied to the number of structures destroyed within the wildfire simulation footprint. There is no plan or timeline to shift to a population-based fatality estimation method. The population impact metric is used to inform consequence severity but is not used directly in the fatality calculation.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-003.pdf			No	5	Risk Methodology and Assessment	
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	7	OEIS-003-Q07	<p>Regarding Risk Spend Efficiency:</p> <p>On page 50 of Liberty's 2026-2028 Base WMP, the Risk spend efficiency is listed as APF*ACF. a. Is the ACF the same as the consequence described on page 36 of the Direxcon report?</p> <p>i. If not, describe how the two differ.</p> <p>b. Describe why this consequence calculation is used for the risk spend efficiency instead of the wildfire consequence.</p>	<p>a. Yes</p> <p>b. Liberty uses Consequence of Failure (ACF) in its Risk Spend Efficiency (RSE) calculation rather than wildfire consequence because RSE is designed to evaluate the cost-effectiveness of asset-level mitigations. This consequence is localized and asset-specific, making it appropriate for evaluating individual mitigation actions. In contrast, wildfire consequence is derived from fire simulation models and reflects system-level impacts, which are not directly attributable to a single asset.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-003.pdf			No	5	Risk Methodology and Assessment	
3	OEIS	3	OEIS-P-WMP_2025-Liberty-003	8	OEIS-003-Q08	<p>Regarding Vegetation Risk:</p> <p>On page 79 of Liberty's 2026-2028 Base WMP, it states that "DRAT incorporates vegetation as a separate asset."</p> <p>a. Describe how vegetation is seen as an "asset" that has a "quantified risk score."</p>	<p>a. Within DRAT, the term "asset type" is used to describe items that are calculated into the risk score through a separate module. Vegetation is one of these modules allowing it to be analyzed using the same methodology as traditional utility assets. Although vegetation is not a utility asset, it is treated as such in terms of inspection, maintenance, and its potential to degrade system reliability. Each vegetation segment is assigned a risk score based on factors like proximity to energized equipment, tree density, and historical inspection and maintenance data. This score incorporates the likelihood of vegetation contacting electrical infrastructure, the probability of ignition under given conditions, and the potential consequences of an ignition. By quantifying vegetation-related wildfire risk in this way, Liberty can effectively prioritize mitigation efforts, assess the impact of vegetation management initiatives, and support cost-efficiency analyses for vegetation management strategies.</p>	Jessica McHale	7/8/2025	7/11/2024	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-003.pdf			No	5	Risk Methodology and Assessment	
4	OEIS	4	OEIS-P-WMP_2025-Liberty-004	1	OEIS-004-Q01	<p>Regarding Judgmental Sampling for Vegetation Management Quality Control Audits:</p> <p>On page 2 of its Post Work Verification Procedure, Liberty indicates that "QC inspections for VM are based on judgmental sampling and not 100% inspection. Judgment is used to prioritize QC resource allocation based on risk."</p> <p>a. When performing judgmental sampling, what factors make it more or less likely that a specific tree, circuit mile, or pole will be selected to audit for QC? Provide a detailed description of the process of Liberty's judgmental sampling for each of the following activities Liberty audits:</p> <p>i. Completed Tree Work</p> <p>ii. Detailed Inspections</p> <p>iii. Hazard Tree Work</p> <p>iv. Pole Clearing</p> <p>b. Stratified random sampling ensures that a sample is representative even if it comes from a non-uniform population (e.g., when there are unequal miles within each HFTD Tier, or if one tree crew performs more work than another). Explain why Liberty uses judgmental sampling as opposed to stratified random sampling.</p>	<p>a. QC inspections are assigned to the QC contractor by Liberty Vegetation Management upon work completion or completion of a reasonable work sample size prior to the planned QC inspection. Liberty considers various factors when QC work packages are assigned including project schedule and timing of work, region, circuit, population (number of trees, poles, or work orders), local known conditions, vegetation characteristics, HFTD, vendor trends and performance, circuit and section mileage, type of review, and other factors.</p> <p>i. Completed Tree Work – Liberty assigns QC of Completed Tree Work of work packages that are completed by the tree contractor through the project schedule, typically January through June. Liberty assigns entire circuits, or sections of circuits, for QC based on the criteria described above. Every completed work order for the Clearance initiative is evaluated for the QC assignment.</p> <p>ii. Detailed Inspections – Liberty assigns QC of Detailed Inspections of circuits, sections of circuits, or a reasonable work sample size that are completed by vegetation management inspections. QC of Detailed Inspections occur through the calendar year. QC of Detailed Inspections are assigned based on the criteria described above. All spans and work orders created by VM inspectors in the QC sample are evaluated.</p> <p>iii. Hazard Tree Work – Liberty assigns QC of Hazard Tree Work of completed Fall-In Mitigation work. Liberty assigns entire circuits, or sections of circuits, for QC based on the criteria described above. Completed work orders for trees removed for the Fall-In Mitigation Initiative are evaluated.</p> <p>iv. Pole Clearing – Liberty assigns QC of Pole Clearing throughout the service territory based on the criteria described above. Liberty has conducted random sampling of completed pole clearing work as needed.</p> <p>b. Liberty utilizes judgement sampling to enhance effectiveness of its quality control processes. By leveraging the knowledge of subject matter experts, QC inspections are proactively directed towards the VM programs current priorities, areas of improvement, and regions of interest. This approach allows for real-time adaptation of QC inspections based on operational insights, historical trends, and on-going program development.</p>	Jessica McHale	7/11/2025	7/16/2025	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-004.pdf			No	9	Vegetation Management and Inspections	
4	OEIS	4	OEIS-P-WMP_2025-Liberty-004	2	OEIS-004-Q02	<p>Regarding Quality Control Sample Units:</p> <p>On page 201 of its 2026-2028 Base WMP, Liberty indicates that the "Population/Sample Unit" for "Completed Tree Work" and "Detailed Inspections" is "Annual Circuit Miles." On page 204, Liberty indicates the "Sample Unit" for "Completed Tree Work" and "Detailed Inspections" is a "Single Tree." On page 204 Liberty lists "Completed Tree Work Criteria," and on pages 204 and 205 Liberty lists "VM Detailed Inspections Criteria." It is unclear how "criteria," "Single Tree(s)," and "Annual Circuit Miles" generate pass rates that Liberty will compare to the "Target Pass Rate(s)" it includes in "Table 9-21: Vegetation Management QA and QC Activity Targets."</p> <p>a. Provide an example calculation showing all steps of how Liberty calculates audit pass rates using criteria, single trees, and annual circuit miles. Provide separate example calculations for each of the following activities being audited:</p> <p>i. Completed Tree Work</p> <p>ii. VM Detailed Inspections</p>	<p>a. Liberty uses the criteria in Table 9-25, Table 9-26, Table 9-27, and Table 9-28 when evaluating pass rates for each Work Type. The pass rates are averaged for all conditions evaluated. (See response for tables)</p>	Jessica McHale	7/11/2025	7/16/2025	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-004.pdf			No	9	Vegetation Management and Inspections	
4	OEIS	4	OEIS-P-WMP_2025-Liberty-004	3	OEIS-004-Q03	<p>Regarding Annual Substation Defensible Space Inspections:</p> <p>On page 234 of its 2023-2025 Base WMP, Liberty states that "a minimum of two site visits will occur per facility, per year." On page 186 of its 2026-2028 Base WMP, Liberty states that "generally, two site visits will occur per facility, per year."</p> <p>a. Explain why Liberty changes its commitment to inspect substations for defensible space from "a minimum of two site visits" per year to "generally, two site visits" per year.</p> <p>b. Describe factors that would contribute to substation inspections occurring: i. Less often than two times per year.</p> <p>ii. More often or equal to two times per year.</p>	<p>a. Liberty conducts defensible space inspections on each substation annually, with the goal of two site visits per year. While this is the intended schedule, Liberty determined it is necessary to account for factors outside of its control that can impact its ability to inspect and perform the substation treatment.</p> <p>b. Contributing factors:</p> <p>i. Factors such as weather, access issues, and operational constraints can contribute to substation inspections being conducted less than twice per year.</p> <p>ii. Liberty does not plan to perform substation defensible space inspections more frequently than twice a year.</p>	Jessica McHale	7/11/2025	7/16/2025	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-004.pdf			No	9	Vegetation Management and Inspections	
4	OEIS	4	OEIS-P-WMP_2025-Liberty-004	4	OEIS-004-Q04	<p>Regarding Annual LIDAR Inspections of Overhead Distribution and Transmission System</p> <p>In its response to OEIS-P-WMP_2025-Liberty-001, question 01, Liberty states that it "intends to complete LIDAR inspections of the total overhead primary distribution and transmission system annually."</p> <p>a. What type of raw and processed data are provided to Liberty by this process? (ex. Point cloud data, orthoimagery, geospatial vector data, inspection reports)</p> <p>b. What type of analysis outputs are provided to Liberty by this process? (ex. Vegetation encroachment distance, clearance violation counts per span, growth rate projections, risk scoring layers integrating vegetation, asset condition, and terrain)</p> <p>c. How is LIDAR data integrated with Liberty's GIS system?</p> <p>d. Does Liberty's vegetation management and/or inspection systems ingest LIDAR data directly?</p> <p>e. How is LIDAR data incorporated into Liberty's Probability of Ignition (POI) or Probability of Consequence (POC) models?</p> <p>f. Does Liberty use LIDAR derived growth models to project future encroachments or work needs?</p> <p>g. What department owns and governs the LIDAR data internally within Liberty? (e.g., Vegetation, IT, Asset Management, a cross-functional group)</p> <p>h. How long is LIDAR data retained, and what is Liberty's plan for historical comparison or trend analysis?</p> <p>i. Are third-party vendors involved in LIDAR data analysis, and if so, how is data integrity validated?</p>	<p>a. LIDAR data provided: • LIDAR point cloud in .las format</p> <ul style="list-style-type: none">• ESRI databaseo Conductor vectors with locations displayed with cartographic properties representing conductor position relative to tower/poleso Rectified structure and span locationso Vegetation segmentation attributed with clearance detections (fall-in, grow-in analysis)• Satellite Imagery Tree Health Monitoring• Point Cloud data• Software <p>b. Locations of poles, structures and conductor vectors are identified and used to analyze adjacent vegetation. Wire vectors are created from the LIDAR point cloud, stringing a curved vector from points on the structure or pole.</p> <p>Vegetation at six feet and above ground level is segmented to represent tree crowns, with each tree assigned a unique Tree ID. Deliverables include tree-top points for all trees and vegetation polygons for detection trees.</p> <p>Vegetation clearance analysis identifies vegetation that may grow into or fall onto transmission or distribution conductors. It uses tree height data, catenary models, and voltage-specific clearance thresholds to categorize the encroachments and fall-ins.</p> <p>Proprietary software calculates radial clearance distances from each point in the feature-coded point cloud. Reporting includes fall-ins within a 300-foot corridor and grow-ins/overhangs within a 100-foot ROW. (See response for tables).</p> <p>Liberty uses satellite imagery to monitor tree health along power lines. Through analysis of satellite imagery over time, changes in vegetation health are detected through annual measurements of chlorophyll content. These measurements are compared to a baseline from the initial analysis to identify deviations, which are then aggregated by span and classified into high, medium, or low vegetation stress levels. The results are processed into heat maps that visually highlight areas of concern. Updates are provided semi-annually or on a circuit-by-circuit basis as needed.</p> <p>c. LIDAR data is used to populate Liberty's GIS data to update spatial locations of assets as</p>	Jessica McHale	7/11/2025	7/16/2025	7/16/2025	https://california.libertyutilitytitle.s.com/uploads/Liberty%20Response%20to%20DR%20No.%200EIS-P-WMP_2025-Liberty-004.pdf			No	9	Vegetation Management and Inspections	
5	OEIS	5	OEIS-P-WMP_2025-Liberty-005	1	OEIS-005-Q01	<p>Regarding wildfire and outage program risk:</p> <p>a. Provide the name, wildfire risk, outage program risk, and length (in circuit miles), of each circuit in Liberty's system in the following format: (TABLE)</p>	<p>See DR attachment for table response.</p>	Jessica McHale	7/15/2025	7/18/2025		1		No	5	Risk Methodology and Assessment		

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