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FOUNTAIN WIND PROJECT

Visual Resources Technical Report Addendum

Submitted in Response to Data Adequacy Requests by the California Energy Commission

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Prepared for: Fountain Wind LLC 1001 McKinney Street, Suite 700 Houston, TX 77002

Prepared by: Stantec Consulting Services, Inc. 300 Montgomery Street, Suite 1200 San Francisco, CA 94104

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1 Introduction

This Visual Resources Technical Report Addendum (addendum) serves as a consolidated response to California Energy Commission (CEC) data requests made of Fountain Wind LLC (Applicant) during the CEC certification process for the Fountain Wind Project (project), proposed in Shasta County, California. The addendum updates and revises portions of the Visual Resources Technical Report produced in 2019 (2019 Technical Report), which supported and was appended to Shasta County's Environmental Impact Report for the project.

The current project layout has fewer turbines than those assessed in 2019. Further, coordination with CEC regarding data requests received on February 10, 2023, determined the need for assessment of additional views. This addendum addresses the effects of the project as currently proposed from a revised set of viewpoints. It also completes responses to CEC Data Requests VIS-01, VIS-02, VIS-03, VIS-05, VIS-06, VIS-08, and VIS-09.

Section 2 of this addendum summarizes key components of the project as currently proposed. Section 3 describes the approach to this additional study as it relates to the full discussion of methods in the 2019 Technical Report, which remains applicable. Section 4 presents updated viewshed analysis figures that reflect the current project layout and informed selection of additional Key Observation Points (KOPs) introduced in Section 5. Section 6 presents a discussion of visual effects to each of the representative views assessed here, similar in scope to what was included in the 2019 Technical Report.

2 Project as Currently Proposed

This section responds to Data Requests VIS-01, VIS-03, VIS-06, and VIS-09.

The project assessed in this addendum consists of up to 48 turbines with a maximum output of 7.2 megawatts each and maximum heights of approximately 610 feet (with hub heights up to approximately 328 feet and rotor diameters up to 558 feet). The layout of the project as currently proposed is shown in Figure 1 (all figures are at the end of this addendum), which also shows the currently proposed locations for an operations and maintenance (O&M) facility, access roads, and the following components, all proposed to be located in the interior of the project area: a 5-mile overhead collection line; three permanent meteorological towers (METs); and a substation switchyard. Table VIS-06 provides dimensions for main project components and is provided in Appendix A.

This addendum focuses on the current turbine layout, visibility of the overhead collection line, and clearing for access roads. The 34.5-kV overhead collection system would be installed on wood poles at a maximum height of 90 feet. An approximately 80-foot-wide corridor would be cleared; this corridor would be maintained during the operations phase.

The project site would be accessed via existing, gated logging roads located off State Route (SR) 299. During construction, new internal access roads would have a 20-foot-wide driving surface plus a 10-foot-



wide buffer on either side, resulting in an approximately 40-foot-wide disturbance area. In some areas, including the few segments of access roads visible from publicly accessible locations (see Section 6.2.5 below), the cleared construction area could be up to 200 feet wide to accommodate cut-and-fill, stormwater controls, road design, crane travel, and blade-delivery-vehicle turning radii. New road surfaces would be graded and graveled. The existing logging road network within the project site would be widened and modified according to the aforementioned specifications to safely accommodate turbine component delivery vehicles and heavy equipment.

2.1 Night Lighting

New sources of night light from the project would be associated with turbine hazard safety lighting required by the Federal Aviation Administration (FAA) and lighting installed on new project facilities.

Designated turbines and METs would have flashing red lights installed to improve nighttime visibility for aviation and that comply with FAA standards and Advisory Circular 70/7460-1L. In accordance with these standards, the Applicant would prepare a lighting plan for the project and obtain FAA approval that would specify the installation of flashing red lights on designated turbines and METs to improve nighttime visibility for aviation. Because the height of the proposed turbines would be greater than 500 feet, it is expected that each would need to be lit with two flashing lights.

Project operations would require night lighting for safety and security. Exterior lighting affixed to the O&M building and other facilities interior to the site would be downward-facing and hooded to reduce potential effects for spillover light or glare outside of the developed area. The exterior lighting is not expected to be observable from any publicly accessible location and is not assessed further in this addendum. Security lighting at gates would be similarly shielded and downward-facing to the extent practicable and would be motion-activated where possible.

Construction would most typically take place between the hours of 6 a.m. and 5 p.m. but could vary during summer or winter months to accommodate specific construction needs or site conditions; e.g., to avoid traffic or high winds or to facilitate the project schedule.

3 Additional Methods

The following portions of the 2019 Technical Report Methods section are updated here as necessary to specify steps taken to identify additional KOPs, simulate views toward project features from them, and evaluate effects.

3.1 Viewshed Analyses

This section responds to Data Requests VIS-01, VIS-02, and VIS-09.

Viewshed analyses were updated as described in the 2019 Technical Report to assess project component visibility accounting for the current turbine layout and the overhead collector lines. All



viewshed figures show the area within a 10-mile radius of the project area (i.e., the collective footprint containing the turbines and other components) and account for the screening of forested areas as classified in the National Land Cover Database (NLCD), with trees assumed to be 40 feet high.

Figure 2 shows the area of theoretical visibility of the turbines at maximum height (with a blade tip at the apex of its rotation). Figure 3 shows the area of theoretical visibility of the turbines at hub height, assumed to be where any required FAA lighting would be mounted on the turbines. This viewshed serves as an indication of where turbine lighting would be visible at night. Figure 4 shows the area of theoretical visibility of the overhead collector line, with poles assumed to be uniformly 90 feet high with spans of approximately 400 feet.

3.2 Simulations

The simulations included in this addendum were produced using the same process as described in the 2019 Technical Report. Using Autodesk 3ds Max™, Stantec Consulting Services Inc. (Stantec) visualization specialists built a 3D model of the revised project and then developed a simulated perspective (camera view) to match the geo-referenced location of each KOP, as well as the bearing and focal length of each photograph. Using digital elevation model (DEM) data as the land base upon which existing elements in each view (e.g., buildings, vegetation, infrastructure) were modeled based on aerial imagery, they placed the project model and existing elements into the DEM, then adjusted the camera and target location, focal length, and camera roll to align all modeled elements with the corresponding elements in the photograph within which the model was placed. Visual resources specialists reviewed simulations for photo-realistic quality and consistency with the project plans and layout. Simulations presented in this addendum relied on both previously collected photographs and additional photography collected on May 12, 2023. All photographs were taken with a high-resolution digital single-lens reflex camera with a fixed focal length of 50 millimeters, which is accepted as the best approximation of what the human eye sees in focus within a fixed view.

Figures 5 through 11 present existing and simulated images for each KOP, along with an aerial view inset map to help identify which part of the project layout is visible in the view, a panoramic view to present the context of the single-frame simulated view, viewpoint and photo metadata, and—on a second page—a full-size image of the simulation.

3.3 Assessment of Effects

The set of worksheets used to assess effects in the 2019 Technical Report was revised to include just the views requested by CEC. They are provided in Appendix B. Relying on observations during the site photography and the resulting images of views toward the project site, Stantec's visual resources specialists evaluated the visual quality of existing conditions for each KOP. They assessed natural harmony, cultural order, overall coherence, and landscape composition and vividness for each view, assigning a visual quality rating ranging from "very low" to "very high." This assessment was replicated for the simulated images showing the project as it would be seen from each KOP. Stantec established a visual quality rating for each view showing proposed conditions. Comparison of existing and proposed



project conditions identified key aspects of contrast in visual quality that would result from the project. Potential sources of contrast related to visual character, which are described in terms of form, line, color, and texture, were also identified and are discussed as appropriate.

4 Updated Viewshed Analyses

This section responds to Data Requests VIS-01, VIS-02 and VIS-09.

The updated viewshed analyses informed decisions regarding the possibility of additional KOPs in certain areas and, as warranted, their precise location (pending field verification). Figure 2 presents the maximum viewshed of the revised project layout. It indicates varying extents of visibility along SR 299. The areas with the most consistent visibility are the western approach to Hatchet Mountain Pass, within and near the communities of Round Mountain and Montgomery Creek; the valley north of Burney; and a series of discrete, small areas along SR 299's eastern approach to the Hatchet Mountain Pass.

Figure 3 presents the updated hub height viewshed, included here as part of the CEC request to update all viewshed graphics to reflect the revised project layout. This figure evaluates effects of a 328-foot hub height, which is what would allow for the largest rotor diameter within the maximum turbine height of 610 feet, thus allowing for assessment of largest potential turbines in views included in this addendum. Figure 4 displays the viewshed for the overhead transmission line. It indicates that, outside of the project boundary, line-of-sight visibility would be possible from some areas at higher elevations, such as Burney Mountain to the east, Hatchet Ridge to the north, and scattered areas above and to the west of SR 299 west of Hatchet Mountain Pass summit.

5 Updated Set of Key Observation Points

This section responds to Data Requests VIS-01 and VIS-09.

Data requests and follow-up discussions with CEC, during which results of updated viewshed analyses were reviewed, confirmed the need for close-in views of the project with the current project layout simulated, an assessment of more areas where project turbines would appear beyond edge of single-frame views, evaluation of a less-obstructed view from Burney, and demonstration of access road visibility from a public vantage point.

To address these needs, the KOPs evaluated here consist of the following previous and new viewpoints:

- KOP 2 Montgomery Creek view to east-southeast (previous KOP). View updated with current project layout.
- KOP 3a Round Mountain view to east (previous KOP 3). View updated with current project layout.



- KOP 3b Round Mountain view to east-southeast (new KOP). View of additional turbines outside
 of the frame of view from KOP 3a.
- KOP 4a Hatchet Mountain Pass view to west-southwest (new KOP). View from eastbound SR 299 of project turbines. This view replaces the previous KOP 4.
- KOP 4b Hatchet Mountain Pass view to southwest (new KOP). View from eastbound SR 299 of project's eastern access road.
- KOP 5a Central Burney view to west-southwest (previous KOP 5). View updated with current project layout.
- KOP 5b Northern Burney view to southwest (new KOP). View from rural residential portion of Burney (Black Ranch Road) with no obstructions.

Completely updated or new assessments of effects from these views are below.

6 Revised Results and Discussion

This section responds to Data Requests VIS-01, VIS-08, and VIS-09.

This section updates the discussion of visual character and quality in the 2019 Technical Report. Visual character is described and assessed holistically at the landscape level, with all representative KOPs within what was delineated in the 2019 Technical Report as the Mountain Communities Landscape Unit. Visual quality is assessed for each view and reflects the current project layout as simulated in Figures 5 through 11. Text below summarizes content in the worksheets provided in Appendix B.

6.1 Visual Character

The project would place a collection of 48 wind turbines and their accessory developments (e.g., an overhead collector line, operations and management building, substation, access roads requiring some clearing of forest lands) within a ridgetop setting, near an existing utility-scale wind project, and within an area where timber harvesting activities take place. Though larger in scale, the proposed wind turbines would relate in form, color, line, and texture to the existing Hatchet Ridge turbines in views where the two projects would both be visible. Similarly, access roads and other infrastructure support timber harvesting activities, and a large transmission line is visible within a cleared right-of-way over Hatchet Mountain Pass in many views. To that extent, the project would appear as an expansion of existing uses and activities, with a greater area occupied by structures and landscape features already present in the broader area.

However, where existing wind turbines and other features are not readily apparent, the changes to visual character from the project would be substantial, as seen in simulated views from within the intermountain area (grouped as the Mountain Communities Landscape Unit in the 2019 Technical Report). The addition of these large, visually distinctive structures to close-in views from either side of Hatchet Mountain Pass would introduce power-generation activities, including the motion from the rotating turbine blades, to view



backgrounds that appear heavily forested and minimally developed. The visual character of views from Montgomery Creek (KOP 2), Round Mountain (KOP 3a and KOP 3b), and the area just east of the pass (KOP 4a and KOP 4b) would be altered.

6.2 Visual Quality

Table 1 summarizes the effects of the revised project, as discussed by KOP below.

Table 1. Existing and Simulated Visual Quality by Key Observation Point

Key Observation Point (KOP)	Visual Quality in Existing View	Visual Quality with Project	Figure
KOP 2 – Montgomery Creek	Moderate	Moderately low	5
KOP 3a – Round Mountain	Moderate	Moderately low	6
KOP 3b – Round Mountain	Moderate	Moderately low	7
KOP 4a – Hatchet Mountain Pass – view of turbines	Moderately high	Moderate	8
KOP 4b – Hatchet Mountain Pass – view of access road	High	Moderately low	9
KOP 5a – Central Burney	Moderate	Moderate	10
KOP 5b – Northern Burney	Moderately high	Moderately high	11

Each view discussed below is based on the assessment contained in the worksheets in Appendix B.

Key Observation Point 2: Montgomery Creek

Existing visual quality in the view from KOP 2 is moderate; and with the project, visual quality would be reduced to moderately low (Figure 5). Project turbines would be most visible in the center and center-left of the view, though blade tips would be detectable beyond and below the tree line in the right half of the view. They would be noticeable during operation when rotors are spinning. All turbines visible here would be located between 3 and 5 miles from the viewer. Viewers include Montgomery Creek residents and tourists traveling SR 299 to or returning from destinations to the east, all of whom are presumed to have moderately high to high sensitivity to visual change. Other viewers would include commuters in or passing through Montgomery Creek who are presumed to have more moderate sensitivity to visual change.

Project turbines visible from this location would appear along the view's backdrop atop a ridgeline that contains no visible development under current conditions. Their scale would match that of the high-voltage transmission lines located on a nearby hill and which define the skyline in the right half of the view. The turbines' placement to the east and above viewers at this location would make their backlit, darkened appearance highly visible during morning hours. When front-lit in afternoon light they would appear lighter, as shown in Figure 5.

The turbines would not appear as part of any larger pattern of development, new or existing. To that extent, the cultural order and overall coherence of the existing view would be reduced with the project. In addition to adding unique forms and a new type of land use to the view, the irregularly oriented turbines



would extend the presence of built structures across a portion of the back of the view, drawing viewer attention. Given that the segment of highway from which views to the east would be unobstructed would be around 0.1 mile long, the duration of views from people driving near KOP 2 would be short. Vegetation, terrain, and orientation would partially obscure turbines from points north or south along this stretch of SR 299. The view from KOP 2 presents a narrow view toward the project site. In more sustained views from outside the highway corridor, project turbines would be unique to views, as would their motion.

Six of the turbine nacelles (the closest being 3 miles away) would be visible above the ridgeline. Any night lighting of the turbines would be highly visible from this location and would appear where none is currently present. Vegetation may partially or completely block visibility of light from nearby parts of Montgomery Creek, but the simulated view from KOP 2 is indicative of the potential presence of night lighting in unobstructed and partially obstructed views in the area.

Key Observation Point 3a: Round Mountain

The effects of the project in views from KOP 3a would be similar to those from KOP 2. Existing visual quality in the view from KOP 3a is moderate. With the project, visual quality would be reduced to moderately low (Figure 6). Under current conditions, a rounded and articulated ridgeline appears as an undeveloped backdrop to a narrow valley floor that contains residences, mature trees, and a series of high-voltage transmission lines uniformly oriented across the view. With the project, a number of turbines would be visible to either side of the near ridgeline, at various distances from the viewpoint and extending to various heights based on the elevation of their location. The nearest turbines would be around 5 miles away. Viewers at or near KOP 3a include local residents and tourists who are presumed to have moderately high to high sensitivity to visual change and commuters and workers who are presumed to have more moderate sensitivity to visual change.

Except for one segment of the existing transmission line, nothing appears above the ridgeline in existing views from KOP 3a. This would change with construction of the project, and the skyline in the left portion of the view would be defined by turbines. Turbine blades located beyond and below the mountain saddle in the center of the view would also be intermittently visible when spinning. In this view to the east, nine turbines would appear backlit and dark in morning light. As seen in Figure 6, they would appear light and visible when front-lit by afternoon light.

While the project itself would appear orderly in general—seen no closer than the ridgeline but with varying heights and depths—overall coherence and composition of the view would change. What is currently a natural-appearing backdrop to a densely developed transmission corridor would, with the project, appear dedicated to energy generation. The turbines would add elements of visual interest to views from KOP 3a and in nearby Round Mountain; however, their visibility, unique forms and color, and motion when spinning would diminish the intactness of the existing view which would appear as spatially discrete elements within a mostly uninterrupted ridgeline. Because the highway traverses the western edge of this portion of the mountain valley, and because mature vegetation is often set back from the road, views of the project here would be of short duration but less obstructed. The attention of viewers in this portion of Round Mountain would likely be drawn to the project.



The nacelles of half of the turbines visible here would be visible above the ridgeline and night lighting would be new and unobstructed from an elevated, highly visible location in views from KOP 3. Some lighting associated with the nearby substation or other uses may be sources of existing night light within the mountain valley.

Key Observation Point 3b: Round Mountain

Project effects to the view from KOP 3b, which represents a rotation of the view from KOP 3a to the east-southeast, would be the same: the moderate visual quality of the existing view would be reduced to moderately low (Figure 7). Current conditions are an extension of those described for the view from KOP 3a. The ridgeline remains varied in form and, in its apparently undeveloped state, serves as the view's backdrop, upon which none of the foreground or middleground features encroach. Rural residences and other structures are visible in the foreground, and the angle of view toward the transmission corridor is such that electrical conductors appear highly reflective. The effect is to reinforce the presence of multiple transmission lines across the entire view. With the project, the entire upper portions of two turbines and the blades of six others would be visible extending above the ridgeline. The nearest turbines would be the two most visible ones in the center of the view, located 3.7 and 4.1 miles away. Viewers at or near KOP 3b are the same as for KOP 3a. Residents and tourists are presumed to have moderately high to high sensitivity to visual change, and commuters are presumed to have more moderate sensitivity to visual change.

Effects to this view are similar to those described for the view from KOP 3a. The extent to which the project would appear orderly would be derived from its relegation to the back of the view. However, the varying elevations and distances of the turbines from KOP3b would result in viewers' eyes being drawn to the two most prominent turbines and distracted by the blades of the turbines further away that are rotating in and out of the view above the ridgeline. This would affect the overall coherence of the view and reduce the quality of the scene's composition. As in the view shown for KOP 3a, the natural-appearing mountain backdrop to a developed valley would, with the project, include evidence of additional development.

Views of the project from KOP 3b would be of short duration like those in KOP 3a, during which turbines would likely draw viewer attention. The turbines with nacelles above the ridgeline would likely be sources of new nighttime light from an elevated, highly visible location.

Key Observation Point 4a: Hatchet Mountain Pass

Existing visual quality in the view from KOP 4a is moderately high, and the project visual quality would be reduced to moderate (Figure 8). In the existing view, the highway corridor is codominant with the conifer forest that extends across the view and defines its horizon. All human-made elements visible within the view are within the roadway, and views along this segment of SR 299 are predominantly limited to the roadway corridor by adjacent vegetation of varying species, form, and density.

Turbines would be prominently visible across the majority of this view outside of the highway, with the most proximate and prominent appearing in the left of the view, 0.8 mile away. The nacelles of seven turbines would be visible, with a slight segment of an eighth turbine visible above the ridgeline to the left



of the nearest turbine. During operation, this blade tip would rotate in and out of view along the skyline, though viewer attention is likely to be drawn to the turbines that are more completely visible. Viewers include mountain communities' residents and tourists traveling SR 299, who are presumed to have moderately high to high sensitivity to visual change. Commuters passing through the area are presumed to have more moderate sensitivity to visual change.

At this location near the top of Hatchet Mountain Pass, the steep slopes observable from lower elevations have given way to a gentler, more rounded ridgetop topography. The ridgeline with the project turbines extend across the view and appear only slightly higher than the KOP's vantage point. The scale of the turbines enhances the contrast in the view with the addition of new structures of unique use, form, color, texture, and motion. Their gray-white color is typical of turbine appearance during increasingly overhead late morning light. They would appear brighter when more directly front-lit during early morning hours, enhancing contrast with the mostly dark forested area. In afternoon and evening hours, their darkened, backlit forms would be equally noticeable along the horizon.

Views outside of the highway corridor from this segment of SR 299 would be of very short duration; the break in vegetation through which the view from KOP 4a is visible is approximately 300 feet long (and fewer project turbines would be visible looking westward down the highway corridor for a distance of less than one mile). Despite that, when visible, all facets of visual quality discussed in this assessment would be reduced with the project in place. The nearest turbine would obstruct a small portion of the forested skyline, affecting the natural harmony of the existing view. Cultural order would be reduced by placement of built features outside of the roadway, which would also affect the overall coherence of the view. Despite the high degree of vividness projected by the turbines, the visual coherence of the existing view would be substantially altered.

Any night lighting of turbines would be highly visible from this location and light would appear where none is currently present. Roadside vegetation would partially or completely block light from adjacent segments of the highway, but lighting would be intermittently visible throughout the passage over the peak.

Key Observation Point 4b: Hatchet Mountain Pass

Existing visual quality in the view from KOP 4b is high; with the project, visual quality would be reduced to moderately low (Figure 10). Located approximately 0.5 mile west of KOP 4a, KOP 4b affords a similar view through roadside vegetation of a mostly undeveloped scene characterized by uniform forestlands extending across the view beyond a small mountain meadow. An existing road extends across part of the meadow, though it is not immediately recognizable as such. Like the view from KOP 4a, the view from KOP 4b is narrow due to the prevalence of mature trees along the highway corridor, which limits visibility and duration of views of the surrounding mountain landscape.

With the project, the blades of two turbines extending above the horizon would rotate in and out of view. Also noticeable would be the clearing through the forest necessary for construction activities and permanent project access. As seen from KOP 4b, which is approximately 0.1 mile east of the project's proposed eastern access road, a linear clearing ranging from 110 to 130 feet wide would ascend the near slope above the meadow. Post-construction, a 50-foot-wide roadway (30 feet of graveled road and 10



feet of shoulder on either side) would be retained permanently. Near the bottom of the hill, it would appear to turn toward the highway. Tree clearing would be visible along the top of the hill since a staging area would be on the other side of the ridgeline. Viewers of these changes would be the same as for KOP 4a: mountain communities' residents and tourists traveling SR 299 who are presumed to have moderately high to high sensitivity to visual change and commuters passing through the area who are presumed to have more moderate sensitivity to visual change.

As with the view from KOP 4a, all facets of visual quality discussed in this assessment would be reduced with the project in place. Viewers would have a direct, though brief, view of the clearing required for the access road. The corridor's path up the slope and over the ridgeline would substantially alter the natural harmony evident in the existing view by segmenting the forest. This human-made path would replace the natural-appearing skyline as the view's most prominent linear feature: a strong curvilinear swath which, in concert with the fluctuating visibility of turbine blades atop the ridgeline, would result in lower cultural order. When front-lit in morning light, the graveled road would appear enhanced, accentuating the presence of the new linear feature. In the afternoon, when backlit, the removal of the trees would be viewed as a comparatively large rectilinear divot along the ridgetop. Compared with the existing view, the composition of the scene with the project in place would be substantially lessened.

Any night lighting would be highly visible from this location; light would appear where none is currently present. Roadside vegetation would partially or completely block visibility of light from adjacent segments of the highway, and visibility of lighting would likely be intermittent during passage over the summit.

Key Observation Point 5a: Central Burney

Existing visual quality in the view from KOP 5a is moderate and would remain moderate with the project (Figure 10). Hatchet Ridge turbines are visible in the right side of the view, just over 5 miles away. Project turbines would appear to the left of the existing turbines, between 7 and 8.5 miles away. Few of these turbines would be highly visible; most would appear partly obscured by foreground vegetation or intervening topography along the ridgeline, allowing for visibility of just their blades. Viewers at or near KOP 5 include local residents and tourists, who are presumed to have moderately high to high sensitivity to visual change, and commuters, who are presumed to have more moderate sensitivity to visual change.

The angle of view toward these turbines from within central Burney results in their appearing as an extension of an existing string of turbines along Hatchet Ridge. They would be visible to varying degrees and would not, given their position relative to the Hatchet Ridge turbines, appear as unique features in views. Rather, their consistency in appearance would result in a retained coherence and composition in the view. The project turbines, though larger than existing turbines, would appear at a similar scale due to their greater distance from the viewpoint. Because they would appear atop or beyond the current row of

¹ This width is based on a previous iteration of the project description. The current project description (Section 2) specifies a 40-foot-wide roadway, with 20 feet of drivable surface and a 10-foot buffer to either side. Evaluation here of the wider drivable surface within a cleared corridor that remains 110- to 130-feet wide is intentional, allows for flexibility should additional width up to 30 feet of drivable surface be necessary in the future, and likely poses little to no discernable difference from the narrower roadway.



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turbines on the ridgeline backdrop, the intactness of the existing view would be retained. No new structures would appear to encroach on other features in the view. The view's orientation to the west-southwest would result in the turbines appearing well-lit in morning light and backlit and slightly darkened in the afternoon during late fall, winter, and early spring.

Viewers in most of Burney would have inconsistent views of the project, particularly those who would see the project while passing through the downtown area, where foreground buildings and trees would obstruct certain views toward areas outside of town. At night, the turbine lighting already visible from within Burney would appear extended across Hatchet Ridge. However, while the Hatchet Ridge turbine lights appear as a row, given that project's linear layout, lighting associated with the project would, based on the nacelle positions visible in Figure 7b, appear horizontally and vertically layered where visible.

Key Observation Point 5b: Northern Burney

Existing visual quality in the view from KOP 5b is moderately high and would remain moderately high with the project (Figure 11). In this view from the less-populated and developed portion of northern Burney, natural elements are dominant with built features observable throughout. Active farmland with irrigation systems, fences, and gates, occupies the majority of the foreground beyond the roadway, with the edges of forested areas visible. A distribution line is visible extending across the valley, and ranch structures are detectable across the valley.

Hatchet Ridge Wind Project turbines are visible in the right side of the view, between approximately 6 and 6.5 miles away. A transmission corridor cuts through the otherwise forested Hatchet Ridge and is visible to the left of the turbine nearest the center of the view. Project turbines, as close as 8 miles away, would appear to the left of this corridor and the existing turbines. The nacelles of two turbines would be visible, and just the blades of six additional turbines would be visible above the tree line and intermittently visible during operation, when spinning. Viewers at or near KOP 5b include local residents and tourists. Black Ranch Road provides access to regional trails to the north, outside of the 10-mile study area. These viewers are presumed to have moderately high to high sensitivity to visual change. Commuters are presumed to have moderate sensitivity to visual change.

As with the view from central Burney, the angle of view toward these turbines gives the appearance of an extension of an existing string of turbines along Hatchet Ridge. They would be consistent in scale, form, and color with existing turbines, which would not substantially alter the quality of the view. No new structures would appear to encroach on other features in the view. The view's orientation to the southwest would result in the turbines appearing well-lit in morning light and backlit and slightly darkened in the afternoon during late fall, winter, and early spring, when the sun sits lower in the sky.

Viewers in this portion of Burney would have sustained, unobstructed views of the project, though it should be noted that new turbines would not be visible in views from this area without existing turbines also visible. At night, the turbine lighting already visible would appear extended across Hatchet Ridge. However, the spatial gaps between the existing and proposed turbines would appear different from the uniform pattern of the existing turbines visible from this location. Nighttime conditions, with FAA lights visible, would accentuate this difference.



6.3 Viewer Experience

This section responds to Data Request VIS-05.

Each discussion of the KOPs above identifies likely viewers from the representative viewpoints and their assumed levels of sensitivity to visual change. Regardless of viewer type, the manner in which viewers would experience the project as they traverse Hatchet Mountain Pass would be one of varying visibility, with few locations along SR 299 where sustained views of the project would be visible. Observations made and noted during multiple visits to the project area affirm this, as does the current viewshed figure indicating maximum visibility of the project based on blade tip height (Figure 2).

Figure 2 also indicates areas off the highway where there would likely be line-of-sight visibility of project turbines. However, it must be noted that the viewshed analyses conducted for this assessment account for lands classified in the NLCD as "forested" and assume, conservatively, a uniform tree height of 40 feet for all such lands. The analyses do not account for structures, individual trees, or stands of trees that are not classified as forest (e.g., street trees or yard trees) that impede visibility. The view from central Burney (KOP 5a) is a good example of this in that the viewshed map indicates visibility of between 9 and 16 turbines, but the photo-simulation of the view, which includes trees within central Burney, demonstrates that the actual number of turbines viewed would be fewer than that. Figure 2 also suggests that only portions of the mountain communities within a 10-mile radius of the project would have line-of-sight visibility toward project turbines, with most of Round Mountain falling within the project viewshed, especially along SR 299. Roughly half of Montgomery Creek and lesser proportions of Montgomery Creek Rancheria and Roaring Creek Rancheria would be within the project viewshed.

Eastbound viewers approaching Hatchet Mountain Pass beginning in the oak woodland foothills east of Redding have broad and sustained views of Hatchet Mountain. The Hatchet Ridge wind turbines are visible to varying degrees from this location and more easily identified during late afternoon light (when front-lit) or in early morning (when backlit and silhouetted). During midday, overhead light, distance, and atmospheric haze tends to diminish the turbines' visual presence. As travelers gain elevation and oak woodland transitions to the mixed conifer setting that defines the vegetative community within the mountain pass, the SR 299 becomes increasingly winding, with some segments dropping into small canyons. This shortens views and orients viewers both toward and away from the upland portion of the mountain area. Alternating orientation toward and away from the project site is an effect that is sustained over the duration of the passage. As viewers approach the project, its visibility would be variable due to viewer orientation and intervening topography and vegetation, which would narrow the field of view. This is how the existing Hatchet Ridge wind turbines are currently viewed. Therefore, project visibility would be highly dependent upon the viewer's direction of travel, and may be less than what is conservatively depicted in the viewshed in Figure 2.

The southern portion of the community of Round Mountain provides the first sustained view toward the Hatchet Ridge turbines from a closer vantage point. As viewers approach central Round Mountain, the Hatchet Ridge turbines are visible down the highway corridor. Where not obstructed by roadside trees, some portions of this roadway segment would afford views of both projects, with existing turbines visible to the northeast and proposed turbines to the east. Project turbines would be clearly visible from Round



Mountain, as shown in Figure 2 and as observed during site photography. The views from KOP 3a and KOP 3b are representative of static, sustained views throughout the community along with shorter-duration views from moving vehicles along SR 299 and other roads.

By the time travelers reach the community of Montgomery Creek, the topography begins to flatten and the duration of views lengthens. But because the farmed timberlands at the project location are now visible, the backdrop of views in this area would appear more consistently as conifer forest. As seen from KOP 2, this provides a more uniform, but still natural-appearing, backdrop to views here. The visual disruption of this backdrop is part of what informed the discussion about reduced visual quality from KOP 2.

During the final approach to the peak, visibility of the Hatchet Ridge turbines becomes more pronounced, partially as an effect of seeing them in a focused view down and above the roadway corridor in some locations. This experience—in terms of proximity, visibility, and view duration—is indicative of how viewers would experience the project in areas with similar characteristics. Visibility of the project site remains sporadic here, though roadside vegetation is more deciduous than lower portions of the pass, meaning that project turbines could be detectable through leafless branches during winter. Figure 2 indicates high project visibility east of Moose Camp Road, likely due to the increased presence of small meadows along the highway that open up views to the south.

Highway travelers approaching the Hatchet Ridge Pass from the east would, shortly after leaving Burney, occasionally have views of Hatchet Mountain, including existing turbines. An extended mountain valley, where Sierra Pacific Industry's Burney Station is located, affords sustained views of the Hatchet Ridge turbines, with some visibility of the project's turbines.

Further west from this valley, after another winding and narrow increase in elevation to the summit, viewers would have sustained, close views of the project turbines if not for the intervening forestlands adjacent to the road. Figure 2 indicates periodic visibility in this area, in the vicinity of KOP 4a and KOP 4b. Field observations confirmed that the view toward the project site to the southwest along the majority of this stretch of highway would be substantially or entirely obstructed. However, the views from KOP 4a and KOP 4b demonstrate how visible project components, namely turbines and access road segments near SR 299, would be in unimpeded views from this area.

7 Conclusions

Assessment of additional and revised views in this addendum does not alter the conclusions of the 2019 Technical Report, and those conclusions are affirmed through the analysis of additional or replacement views. Development of the Fountain Wind Project would reduce visual quality in views from the Montgomery Creek, Round Mountain, and from the portions of the eastern slope of Hatchet Ridge Pass where the Hatchet Ridge turbines are not visible. In views from Burney, further east of the project, in which existing turbines along Hatchet Ridge are visible, visual quality would not be substantially reduced.



Appendix A Table VIS-06: Approximate Dimensions and Colors, Materials, and Finishes of Major Project Components



CEC Data Request VIS-06: (Provide a) table that describes the dimensions (height, length, and width, or diameter) and proposed color(s), materials, finishes, patterns, and other proposed design characteristics of each major component visible from public viewpoints beyond the project site shall be provided. The table shall include wind turbines, electrical collector lines, operations and maintenance buildings, meteorological towers, and any other built project components that would be visible to the public.

Table VIS-06. Approximate Dimensions and Colors, Materials, and Finishes of Major Project Components

Component		Turbines (V162)		Overhea	d Collector Line				Aboveground	d Facilities			
Subcomponent	Nacelle	Hub	Blade	Tower (sections)	Poles	Conductor	MET	Substation	Switching Station	O&M Facility	Storage Sheds	Concrete Batch Plant	Microwave Relay Tower (if required)	Access Roads
Dimensions	Height: 12.5 feet Width: 21.3 feet Length: 41.7 feet	Height: 16.1 feet Width: 14.4 feet Length: 16.1 feet Base to hub height: up to 328 feet	Height: 10.5 feet Width: 14.4 feet Length: 261.2 feet Base to blade tip height: up to 610 feet	Height: between 31.2 and 75.1 feet each	Height: up to 90 feet	Height: 20 – 30 feet Length: up to 5 miles	Height: up to 394 feet Width (Base): 30 feet	5 acres	8 acres	5 acres	10 feet by 20 feet	15 acres (temporary)	Height: 150 feet	Width: 20 feet Length: up to 19 miles
Color	white	white	feet white white		brown or gray	gray	aviation-safe orange and white	gray	gray	white and gray	multi		gray	gray
Materials	fiberglass	cast iron	fiberglass, carbon fiber, metal	steel	wood or steel	aluminum	steel	metal and concrete	metal and concrete	steel and concrete	painted steel		steel	gravel or dirt
Finish (reflectance)	moderate	moderate	low	low	low to moderate	low	moderate	low to moderate	low to moderate	low to moderate	moderate		moderate	low

Revised Key Observation Points Worksheets

Appendix B REVISED KEY OBSERVATION POINTS WORKSHEETS

		Exi	sting (Conditions							With	Project			
KOP 2	Locatio	n: Montgomery Creek				Photo Date:	13-Dec-18	KOP 2	Location	: Montgomery Creek		-		Date of Eval:	26-May-23
Landscape Unit o	r Type:	Mountain Communities		Viewer Type(s):	Residents, tourists, cor	mmuters, wo	orkers	Landscape Unit o	r Type:	Mountain Communities		Viewer Type(s):	Residents, tourists, co		workers
View Orientation /	/ Viewer	Position to Project (Inferior		<u> </u>	East-Southeast		erior	View Orientation	/ Viewer P	osition to Project (Inferior		<u> </u>	East-Southeast	,	nferior
Viewpoint Descrip (Figure Caption):	otion	View to the east-southeast Route 299.	t from the	entrance to Montgo	mery Creek Elementary	School from	n State	Viewpoint Descri (Figure Caption):		Simulated view from KOP approximately 3 and 5 mile	•	t turbines would be n	nost visible in the cente	r of the viev	w, between
		VI	SUAL C	HARACTER				1		VISUAL	CHARA	CTER CONTRAST	Γ		
N	atural E	nvironment	Distance Zones	C	ultural Environment		Distance Zones *	N	latural En	vironment	Distan Zones	[]	ultural Environment		Distance Zones *
		ping layers of undulating	Fore	(Elementary school she		Fore x			ould appear beyond / atop	Fore	-	No change from project	ct	Fore
Land	riageline	es visible.	Mid	Buildings	beyond school bus in le	eft of view.	Mid -	Land		is and would not effect to existing conditions,	Mid	x Buildings			Mid
			Back	=			Back -	11		ould encroach on ridgeline.	Back	-			Back
	NA		Fore		Utility line extends acro		Fore x		NA		Fore		No change from project	ct	Fore
Water			Mid	Infrastructure	strong linear/vertical co		Mid x	Water			Mid	Infrastructure			Mid
			Back	1	Lighting, signage, fenc		9 Back -	11			Back	\dashv			Back
	Blend of	f evergreen and deciduous	Fore		Fences and other farm		Fore x	1	No chang	ge from project	Fore		New turbines visible a	top ridgelin	
Vegetation	trees of	varying species and forms	Mid	-	appurtenences visible			Vegetation		, ,	Mid	 Structures	center of view would p	rominently	· —
Vegetation		nroughout the view; ally identifiable in foreground.	Back	-	Structures partially visi hillside.	ble along	Back x	- Vegetation			Back		reshape skyline with nangular forms.	ew vertical	Back -
	NA	any identinable in foreground.	+	·	NA				No chanc	ge from project	_		NA		
Austrus alla			Fore	Autifords / Aut			Fore		140 onang	go morn project	Fore	Autiforda / Aut			Fore
Animals			Mid	Artifacts / Art			Mid	Animals			Mid	Artifacts / Art			Mid
	0		Back		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	To Continuo de la Con	Back		A 4		Back		The second section is a second		Back
	Sunny.		Fore	_	Viewpoints adjacent to few sources of motion			41		eric conditions did not affect sibility in simulation.	Fore	_	The project turbines w substantial sources of		ng Fore -
Atmospheric			Mid	Motion	aside from traffic to / fr		Mid -	Atmospheric			Mid	Motion	the ridgeline in the mid		
			Back				Back -				Back				Back -
			VISUAL	QUALITY							VISUAL	. QUALITY			
	Score*			Notes		.,			Score**			Notes	1 1 1 12 4 14	, .	
Natural Harmony	4	Ridgelines and hilltops app appearance of a uniform g natural setting from highwa	rade char	ige. No discernable			-	Natural Harmony	4	No change with project. To obstructs views of it.	irbines w	ouid appear atop / be	eyona riageline, not witr	in it or in a	location that
Cultural Order	4	View epitomizes pattern of relegated within valley floo nearby foothils, with more	r, with oth	er uses (residential	, transmission / infrastru			Cultural Order	3	Project turbines would app 5 miles away. The most vis					
Overall Coherence	3	High-voltage power lines c nearest the viewpoint. Tran form of school light pole.	nsmission	towers atop nearby	hillside provide slight sy	ymmetry witl	h vertical	Overall Coherence	2	Project turbines would be part of the right half of the view vegetation are visible. The altering current conditions	, portions y would of a rela	s of turbine blades ap create a focal point in ively distant, undeve	opearing above the near n the view, deepening th loped ridgeline backdro	hilltop but te field of vi p.	behind hilltop iew and
Landscape Composition and Vividness	position 3 //ividness Medicate This view is trained of conditions close the highway corridor, with views toward the								3	The addition of turbines to across the majority of the uview, altering the composite the view, beyond the trans	upper po tion of th mission	tion of the view. The e landscape by addin acilities and element	project would also intro g electricity generation ary school.	oduce a new to the high	w use to the lest portion of
Overall Visual Quality Score	3.5	Moderate. This view is typi undeveloped hills and mou					e mostly	Overall Visual Quality Score	3.0	Moderately Low. Turbines memorable features but al				ridgeline, a	adding

^{*} Foreground = zone including area up to 0.25 - 0.5 mile from viewer; Middleground = zone extending between 0.25 - 0.5 mile from viewer to 3 - 5 miles away; Background = zone extending from 3-5 miles away from viewer to infinity.

^{** 1 =} Very Low; 2 = Low; 3 = Moderately Low; 4 = Moderate; 5 = Moderately High; 6 = High; 7 = Very High

		Evi	atina	<u> </u>	anditions				¬				With D	roioot			
	1		sung	C	onditions		Photo	•	-				With P	roject		Date of	
KOP 3a		Round Mountain			\(\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2	Dacidanta madrana	Date:	13-Dec-18		(OP 3a		Round Mountain		\(\frac{1}{2} \cdot \cdo	Dasidanta waltan	Eval:	26-May-23
Landscape Unit o		Mountain Communities osition to Project (Inferior,	Lovol		<u> </u>	Residents, workers, co		s, tourists Inferior		Scape Unit or	<u> </u>	Mountain Communities osition to Project (Inferior,	Lovel or		Residents, workers, c		nferior
Viewpoint Descrip		View to the east from the R								point Descrip		Simulated view from KOP 3	·	<u> </u>			
(Figure Caption):	, cion	view to the east from the re	ound it	noun	itaii i oot oilloc, je		may com	initiality Onlino		re Caption):		miles away. Other turbines					iow, around o
· • · · · ·		\//\	SILAL	CH	ARACTER				ĦË	<u> </u>		. VICHAL	CHADAC	TER CONTRAST	•		
			Dista	_				Distanc					Distance				Distance
N	atural En	vironment	Zone		Cı	ultural Environment		Zones	ř.	Na	itural Env	vironment	Zones *	Cı	ultural Environment		Zones *
	An irregular ridgeline serves as Fore - A residence typical of those in the											urbine 4.7 miles away.	Fore -		No change from proje	ct.	Fore
	Land backdrop to a varied slope (gradual and wide in some areas, steep and backdrop to a varied slope (gradual and wide in some areas, steep and buildings backdrop to a varied slope (gradual and wide in some areas, steep and buildings backdrop to a varied slope (gradual and wide in some areas, steep and buildings backdrop to a varied slope (gradual and wide in some areas).									IANA		would visibly encroach on out would not appear to alter	Mid -	Buildings			Mid
		d elsewhere) and valley	Back	Х		visible beyond trees.	liding is	Back	.11		land.	out would not appear to after	Back x	1			Back
	NA	, ,	Fore	\neg		Multiple towers adjacer	nt to Rou		7		NA		Fore		No change from proje	ct.	Fore
Water			Mid	\dashv	Infrastructure	Mountain Substation a		e.	<u> </u>	Water			Mid	Infrastructure			Mid
Water				-	iiiiasiiuciuie	Towers discernable on	-	e.	` '	vvatei			I ⊢	imastructure			
	Avariativ	of individually identifiable	Back	\dashv		Conductors visible alor			\Box		No obone	a fram project avecat along	Back		Drain at turbin an availe	ا مامانمنا ا	Back
		of individually identifiable sible across the valley floor	Fore	Х		None other than buildir transmission / distribution		Fore	41		skyline.	e from project except along	Fore		Project turbines would varying extents across		
Vegetation		eground. Vegetative cover of	Mid	Х	Structures	infrastructure and appu		e Mid _	Ve	egetation	onymno.		Mid	Structures	ridgeline.		Mid x
	hills and ridge is more uniform.					structures (fences, gate	es).	Back	Ш				Back				Back x
	NA					NA		Fore			NA		Fore		NA		Fore
Animals			Mid		Artifacts / Art			Mid	A	Animals			Mid	Artifacts / Art			Mid
			Back					Back	11				Back	1			Back
	Sunny.		Fore			Vehicles traveling alon			(Atmosphe	eric conditions did not affect	Fore		Would introduce sour	ces of motio	on Fore X
Atmospheric			Mid	\neg	Motion	either direction are visi		ews to Mid	_ Atm	mospheric	project vis	sibility in simulation.	Mid	Motion	to view background, a		
, amoophone			Back	\dashv	motion	the east from the post	office.	Back		Поорионо			Back	- motion	view (blades, when sp be visible in center an		Back x
	<u> </u>			_				Buck	=						be visible in center an	Id figite of	- Buck X
		1	/ISUA	L Q	UALITY						- dut		VISUAL (
	Score**	This view is emblematic of	the ride	70 Or	Notes	characterizes the Mour	ntain Cor	mmunities	\dashv		Score**	In the background of the vie	ow the pro	Notes	as a prominent interrur	ation in the r	
Natural		landscape unit. Mature veg		•	•				II N	Natural		skyline. However, the natur					
Harmony	4	throughout the somewhat re	ugged							larmony	4	features.		•	·		
		discernable transmission to							⅃ ┣ <u></u>								
		Transmission infrastructure Mountain Substation is just						`	Ш			Turbines would be promine					•
Cultural Order	3	along ridgeline. Prominent			,				、	tural Order	3	facilities in the landscape. The mostly linear presence alor					
		299 reduces cultural order				aung en aetaree	o oppo					visible throughout the foreg	-	исана арроан			
		Moderately low due to cont			g from residence	and shed visible amid a	landsca	pe otherwise				With the project, the view c					
Overall	3	dedicated to electricity trans	smissic	on.						Overall	2	to one in which a generatio	•				
Coherence									Col	oherence	_	subordinate to the varied for coherence would be reduced		lated with such use	es. while thematically o	consistent, t	ne overali
. .		Transmission towers are th	e view'	s mo	ost vivid features	along with the mountain	backdro	op and mature	+			The turbines would be high		ble features, given	their relative scale and	d concentrat	tion along the
Landscape	_	trees closest to the viewpoi								andscape	•	ridgeline. Their relegation to					
Composition and Vividness	4	defined backdrop to the val	ley floc	or.						mposition I Vividness	3	view's composition.					
and vividiless		Madanata Districtive to		_4	anda haalistoon 7	and an element of the second		l	- and	VIVIUITESS		Madanatahulaw The we'	4		alan nalata d to		
Overall Visual	3.5	Moderate. Ridgeline is a so despite an overall intactnes								erall Visual	3.0	Moderately low. The projec transmission, but the introd					
Quality Score		asspite an everall intaction	S GGO			activities boiling contain	.54 10 111	a. a. oa.	Qua	ality Score		a.a.ioiiiiooioii, but tiio iiitiou	400011 01 p		io nodia roddoo tilo vio	0 00110010	J.1000.
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^{*} Foreground = zone including area up to 0.25 - 0.5 mile from viewer; Middleground = zone extending between 0.25 - 0.5 mile from viewer to 3 - 5 miles away; Background = zone extending from 3-5 miles away from viewer to infinity.

^{** 1 =} Very Low; 2 = Low; 3 = Moderately Low; 4 = Moderate; 5 = Moderately High; 6 = High; 7 = Very High

		Exi	stine	a Co	onditions							With	n Pr	oject			
KOP 3b	Location:	Round Mountain		9			Photo 1	3-Dec-18	KOP 3b	Location:	Round Mountain			- 		Date of Eval:	26-May-23
Landscape Unit or	Type:	Mountain Communities			Viewer Type(s):	Residents, workers, co		urists	Landscape Unit o		Mountain Communities		_		Residents, workers, co	ommuters,	tourists
		osition to Project (Inferior,				East-Southeast		erior			osition to Project (Inferior,				East-Southeast		nferior
Viewpoint Descrip (Figure Caption):	tion	View to the east-southeast Community Clinic.	from t	the Ro	ound Mountain Po	st Office, just south of th	ne Hill Count	ry	Viewpoint Descrip (Figure Caption):		Simulated view from KOP 3 3.7 and 4.1 miles away.	3b. The	e two	Project turbines m	nost visible in the cente	r of the vie	w would be
		VIS	SUAL	. CH	ARACTER						VISUAL (CHAR	RACT	ER CONTRAST	•		
Na	atural En	vironment	Dista Zon	ance es *	Cı	Itural Environment		Distance Zones *	N	atural Env	vironment	Dista Zone		Cı	ıltural Environment		Distance Zones *
Land	backdrop and wide	ar ridgeline serves as to a varied slope (gradual in some areas, steep and I elsewhere) and valley	Fore Mid Back		Buildings	Residences and other stypical of those in the a on the east side of the clear view and visible by	area is visible highway, in	Mid -	Land	away. Turl	rbine just over 3 miles bines would visibly on ridgeline but would not alter land.	Fore Mid Back	- - x	Buildings	No change from project	ct.	Fore Mid Back
	A variety of individually identifiable		Fore Mid Back		Infrastructure	Multiple towers adjacer Mountain Substation ar Conductors visible alor but not encroaching on	nt to Round re visible. ng top of viev	Fore X	Water	NA		Fore Mid Back		Infrastructure	No change from projec	et.	Fore Mid Back
Vegetetien	trees is vis	sible across the valley floor ground. Vegetative cover of	Fore Mid Back	x	Structures	None other than buildir transmission / distributi infrastructure and appustructures (fences, gate	ngs and ion urtenance	Fore Mid Back	Vegetation	No change skyline.	e from project except along	Fore Mid Back		Structures	Project turbines would across the entire ridge view from KOP 2.		Fore - Mid x Back x
Animals	NA For Mic Bac				Artifacts / Art	NA		Fore Mid Back	Animals	NA		Fore Mid Back		Artifacts / Art	NA		Fore Mid Back
Atmospheric	Sunny. Fo			Н	Motion	Vehicles traveling along either direction are visil the east-southeast fron office.	ble in views	Fore x	Atmospheric		ric conditions did not affect ibility in simulation.	Fore Mid Back		Motion	Would introduce sourd to view background, a view.		on Fore X
		,	VISU	AL Q	UALITY						,	VISUA	AL Q	UALITY			
	Score**				Notes					Score**				Notes			
Natural Harmony	4	As with the view from KOP the Mountain Communities in a patchier pattern throug unencroached upon by transport to the communities of the communiti	lands hout t	cape he so	unit. Mature veget mewhat rugged me	ation is visible througho	out the valley	floor, and	Natural Harmony	4	In the background of the view mostly natural skyline. How to built features.		. ,		,		
Cultural Order	3	Transmission infrastructure Mountain Substation is just along ridgeline. Presence creduces cultural order in the) and limited to val	ley floor with exception	of discernab	ole towers	Cultural Order	3	Two turbines would be clear related facilities in the lands. Their vertical forms would riew from the turbines would	scape. elate t	The to the	blades of two other	er turbines would rotate on towers. The introduc	above/bel tion of mot	ow ridgeline.		
Overall Coherence Moderate. While there is an element of visual contrast resulting from residences, gates, fences their presence is subordinate within a landscape otherwise dedicated to electricity transmission.									Overall Coherence	2	With the project, the view c to one in which a generatio subordinate to the varied fo coherence would be reduce	n facili orms as ed, par	ity is a ssocia ticula	also prominentliy f ated with such use arly due to the visil	eatured. All other features. While thematically collity of turbines atop th	res in the vonsistent, e center of	vould be the overall the view.
Landscape Composition and Vividness	omposition d Vividness 4 defined backdrop to the valley floor.									3	The turbines would be high ridgeline. Their relegation to view's composition.						
Overall Visual Quality Score	3.8	Moderate. Ridgeline is a so despite an overall intactnes							Overall Visual Quality Score	3.0	Moderately low. The projec transmission, but the introd						

^{*} Foreground = zone including area up to 0.25 - 0.5 mile from viewer; Middleground = zone extending between 0.25 - 0.5 mile from viewer to 3 - 5 miles away; Background = zone extending from 3-5 miles away from viewer to infinity.

^{** 1 =} Very Low; 2 = Low; 3 = Moderately Low; 4 = Moderate; 5 = Moderately High; 6 = High; 7 = Very High

[PROJECT NAME] - Assessment of Visual Effects

		Exi	sting	Со	nditions									With	Pr	oject			
KOP 4a	Location	: Hatchet Mountain Pass					Photo Date:	12-M	ay-23	1	KOP 4a	Location	: Hatchet Mountain Pass			•		Date of Eval:	26-May-23
Landscape Unit o		Mountain Communities				Tourists, commuters, w					ndscape Unit or		Mountain Communities				Tourists, commuters,		
		osition to Project (Inferior			<u> </u>	West-Southwest		Inferior		_			osition to Project (Inferior,				West-Southwest		nferior
Viewpoint Descrip (Figure Caption):	otion	View to the west-southwest dense roadside vegetation							riably		ewpoint Descrip gure Caption):	otion	Simulated view from KOP 4 mile to 3.4 miles away.	ła. Proj	ect ti	urbines would be	visible to different exte	nts at dista	nces of 0.8
		VI	SUAL	СНА	RACTER								VISUAL (CHAR	ACT	ER CONTRAST			
N	atural En	vironment	Distar Zones		Cı	ultural Environment			istance Zones *		Na	atural En	vironment	Distar Zones		Cı	ultural Environment	t	Distance Zones *
		ndulating, mostly hilly to	Fore	Х		NA		Fo	ore			No chang	e from project.	Fore			NA		Fore
Land	Land mountainous ridgetop setting with some flat areas evident. Mid X Buildings										Land			Mid		Buildings			Mid
	Como nat	arodo ovidoni.	Back	-				Ва	ack	11				Back					Back
	NA		Fore	\neg		All development limited			ore X			NA		Fore	\neg		No change from proje	ct.	Fore
Water			Mid	\neg	Infrastructure	corridor (roadway, som	ne signag	je).	id -	11	Water			Mid	\neg	Infrastructure			Mid
			Back	\neg				Ва	ack -	11				Back	\neg				Back
	Strong ve	ertical forms throughout,	+	x		None.			ore	┧├╴		No chang	e from project, except for	Fore	\dashv		Strong contrast from	orominent	Fore -
Vegetation	1	le to back of view w/	Mid	X	Structures			M	-	Ш,	Vegetation		n of a small segment of	Mid	\neg	Structures	visibility of multiple tu	rbines.	Mid x
		short depth of field. Some in form / color, some	Back						ack	11	. ogetanen	turbine.	area behind the nearest	Back	\dashv				Back x
	NA		Fore	\dashv		NA		_	ore	+		NA		Fore	\dashv		NA		Fore
Animals			Mid	\dashv	Artifacts / Art			M	-	$\exists 1$	Animals			Mid	\dashv	Artifacts / Art			Mid
741111415			Back	\dashv	7 a tinadio / 7 a t				ack	+1	7			Back	\dashv	7 ii iii doto / 7 ii i			Back
	Sunny.		Fore	\dashv		Highway traffic.			ore X	$\dashv\vdash$		Atmosphe	eric conditions did not affect	Fore	\dashv		Project turbines would	d be highly	Fore -
Atmospheric			Mid	\dashv	Motion			Mi		\parallel	Atmospheric		sibility in simulation.	Mid	\dashv	Motion	visible sources of mot	tion, visible	in Naid
Atmospheric			Back	\dashv	Wiotion				ack -	∤ ^	Aunospheric			Back	\dashv	Wiotion	views looking down a the roadway corridor.	nd away fro	Back x
			J. J.						uck -	╛╘				1 1			the readway comacn.		Duck X
	0 44		VISUA	L QL	JALITY					4				VISUA	L Q	UALITY			
	Score**	Limited visibility outside of	the tree	-line	Notes	or gives the sense of a fo	orested m	nountain	nass	┨├		Score**	The turbines would appear	aton / h	nevo	Notes	vithin it or in a location	that obstru	cts views of it
Natural Harmony	5	Where visible - intermittent hillsides of the top of Hatch	ly and f	or sh	ort durations - de	•			-		Natural Harmony	4	aside from a smal portion o extent the natural harmony	f forest	ed ri	dgeline that would	d be obscured by the n		
Cultural Order	The highway corridor is a strong linear feature; however, its presence represents the extent of made modifications visible in this view, and its visual compartmentalization to the immediate and right of view limits its encroachment on areas outside of the corridor.										ultural Order	3	The presence of turbines w would appear orderly along						though they
Overall Coherence	Coherence 5									⅃Ĺ	Overall Coherence	3	The contrast between the v from the presence of turbin subordinate 2-lane highway turbines of visually unique f	es. The / would form, co	visu rem olor a	ual experience of ain, except that the and scale.	crossing a mountain pa ne pass would now app	ass from a bear domina	visually ated by
Landscape Composition and Vividness	views of the terrain at the top of the pass are not as dramatic or vivid as views of the pass. Medarately high. The corresponds to pass are not as dramatic or vivid as views of the pass.									c	Landscape Composition nd Vividness	4	Proposed changes would be ridgetop environment would attention and substantially and memorable features, b	d not ap alter the ut proxi	peai visi imity	r altered, the prox ual character in su to viewpoint woul	imity of such a change uch views. Turbines wo ld affect the overall cor	would draw ould be viving oposition o	v viewer's d and woudl f the view.
Overall Visual Quality Score	4.8	Moderately high. The some terrain. Viewer experience		-		_	ing off of	the unde	erlying		Overall Visual Quality Score	3.5	Moderate. While the addition appear atop/beyond the ride				-		project would

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[PROJECT NAME] - Assessment of Visual Effects

		Exi	isting Co	onditions							With	Project			
KOP 4b	Locatio	n: Hatchet Mountain Pass				Photo Date:	May-23	KOP 4b	Location	: Hatchet Mountain Pass		-		Date of Eval:	26-May-23
Landscape Unit o	r Type:	Mountain Communities		Viewer Type(s):	Tourists, commuters, w	orkers		Landscape Unit o	r Type:	Mountain Communities		Viewer Type	(s): Tourists, commuters, w	orkers	
		Position to Project (Inferior			Southwest	/ All				osition to Project (Inferior			Southwest	/ All	
Viewpoint Descrip (Figure Caption):	otion	View to the southwest from the back of the view is with			ect's eastern access roa	d. The ridgeline	e along	Viewpoint Descrip (Figure Caption):	otion	Simulated view from KOP 4	4b. The	clearing of trees	or the access road is appare	ent from this	location.
		V	ISUAL CH	ARACTER						VISUAL	CHAR	ACTER CONTR	AST		
Na	atural E	nvironment	Distance Zones *	C	ultural Environment		Distance Zones *	N	atural En	vironment	Distar Zone:		Cultural Environment		Distance Zones *
		views from within the top of	Fore x		None visible.	Į.	Fore			ing for the access road	Fore	х	None		Fore
Land	topograp	s reveal relatively little ohic variation, but hillside is ated by the cleared meadow.	Mid -	Buildings			Mid Back	Land		strip of land ascending the the middle of the view.	Mid	- Building	s		Mid Back
	NA	ated by the cleared meadow.	+ + +		An existing access road				NA		Back	-	The proposed access ro	nad is visih	
Water			Fore Mid	Infrastructure	across a portion of the far end of the meadow.	view near the	Fore x Mid -	Water			Fore Mid	Infrastruc	within the cleared corric		Mid -
			Back			I	Back -				Back				Back -
		the rounded roadside brush all, grassy meadow, active	Fore x		None visible.	-	Fore		1	ss road varies in width from 80'. All trees and vegetation	Fore	х	Turbine blades are visit above the ridgeline.	ole extendir	ng Fore x
Vegetation		nd consisting mostly of	Mid -	Structures		1	Mid	Vegetation		area required for temporary	Mid	- Structur	es above the hugeline.		Mid -
		dominates the view.	Back -			ļ	Back			ould be removed from view.	Back	-			Back -
	NA		Fore		NA	ı	Fore		NA		Fore		NA		Fore
Animals			Mid	Artifacts / Art		ļ.	Mid	Animals			Mid	Artifacts /	Art		Mid
			Back			ļ,	Back				Back				Back
	Sunny		Fore		NA		Fore		Atmosphe	eric conditions did not affect	Fore		When operational, the b	blades of th	ne Fore -
Atmospheric			Mid	Motion			Mid	Atmospheric	project vis	sibility in simulation.	Mid	Motion	turbines shown here wo	ould rotate i	in Mid x
7 4			Back				Back	7 tamoopinone			Back		and out of view.		Back -
			VISUAL Q	UALITY					-	,	VISUA	L QUALITY			
	Score*	*	1100712	Notes					Score**				ites		
Natural Harmony	6	The scene in this view is o forest that extends to the h		-	•		reen	Natural Harmony	3				ed into two sections, an effect ne back side of the ridge, the		
Cultural Order	6	Road extending across far immediately recognizeable or otherwise absorbed into	as such wi	thout prior knowle	dge; from this vantage p			Cultural Order	3	ridgeline where it encroach nacelles or towers, of two t structures contributes to fu	nes on the Turbines rther dis	he existing natura would be intermi sorder.	ll in the foreground, extendin l-appearing wooded ridgeline tently visible. Binary visibility	e. The blade of human-l	es, but not made
Overall Coherence	6	In general, this scene appo						Overall Coherence	4	roads throughout Hatchet F timber harvesting activities is diminished, however.	Ridge a	nd its approaches atchet Ridge Wind	ence partial visibility of wind to the east and west, given to Project. The integrity and un	the existing nity of the e	presence of existing view
Landscape Composition and Vividness	5	While natural features cha of the forested landscape active timber farming resul meadows of various sizes.	beyond the lits in widesp	nighway, this is a read visibiltiy of m	typical scene across Hat ature woodlands and top	chet Ridge, whoography allow	ere s for	Landscape Composition and Vividness	3	evergreen forest to provide	access	s to wind turbines	atively wide road cutting thro that are only partially and into	ermittently	visible.
Overall Visual Quality Score	5.8	High. Though consisting m provides an example of the						Overall Visual Quality Score	3.3	Moderately low. Human ac uninterrupted forest lands a			risible in a manner that encro	oaches on b	oth

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		Fyi	stino	Cc	onditions							With	Pro	iect			
1/OD 5			stille		Jiiditions		Photo	40.4.40	WOD 5-	<u>.</u>		VVICII	110	Jec t		Date of	22.14
KOP 5a		: Central Burney					Date:	18-Apr-19	KOP 5a		Central Burney					Eval:	26-May-23
Landscape Unit of		Mountain Communities	Laval			Residents, tourists, cor			Landscape Unit o		Mountain Communities	Laval		J. (/	Residents, tourists, co		
Viewpoint Descrip		osition to Project (Inferior, View to the west-southwest			· · · · · · · · · · · · · · · · · · ·	West-Southwest	•	nferior act is visible	View Orientation		osition to Project (Inferior, Simulated view from KOP 5			<u> </u>	West-Southwest	<u> </u>	nferior to the left of
(Figure Caption):	Julion	in the right portion of the vie				CAISTING Flatorict Mage	vviila proje	Sot 13 VISIBIC	(Figure Caption):	ption	existing Hatchet Ridge turb					or the view,	to the left of
		VI	SUAL	CHA	ARACTER						VISUAL (CHAR	ACTE	R CONTRAST	1		
N	atural En	vironment	Dista	nce		ultural Environment		Distance	N	atural En	vironment	Distan	тсе		ıltural Environment		Distance
		efined, rounded and gradual	Zone Fore	_		Commercial portion ald	ona Burnev	Zones *			e from project.	Fore	s *		NA		Zones *
	ridgeline i	s visible in portions of view	Mid		Buildings	Main Street.Relatively			Land	i to origing	o mom projecti	l 1	-	Buildings			Mid
		nd. Viewpoint vicinity flat		-	Buildings	angular and rectilinear		as	Lanu			Mid	-	Buildings			
	and devel	opeu.	Back	^		well as cottage-scale b Road corridor, including		Back -		NA		Back	+		No change from projec	~t	Back
	"		Fore	\dashv	Infractureture	occupies large portion			Water			Fore	┥.		Tro shango nom projec	J	Fore
Water			Mid	\dashv	Infrastructure			Mid -	Water			Mid	"	nfrastructure			Mid
	Individual	trees along ridgeline barely	Back	.,		Hatchet Ridge turbines	visible A	Back -		No change	e from project.	Back	-		Jagged / rigid blade tip	ns would be	Back
Venetetien	discernab	le. Mature trees of varying	Fore	X	Ct	nearby flagpole and str		Fore x	Vanatatian	140 Chang	e nom project.	Fore	-	Ct	visible just above the s		e
Vegetation		or, and scale visible	Mid	-	Structures	parking lot lights are ar	•	Mid -	Vegetation			Mid	-	Structures	center-right of the view	v, partially	Mid -
	_	ıt urban area.	Back	X		tallest components fo t	ne view.	Back x		NA		Back	-		obscured by trees.		Back x
	NA			-	A.:4164- / A.:4			Fore	Austrus alla			Fore	┨.		INA		Fore
Animais	Animals		Mid	\dashv	Artifacts / Art			Mid	Animals			Mid	 	Artifacts / Art			Mid
	Sunny		Back	\dashv		Hatchet Ridge turbine I	hlade rotati	Back		Atmosphe	eric conditions did not affect	Back	+		Project turbines would	evtend the	Back
	Curiny		Fore	\dashv	BA a4i a m	visible from here. Main		lso File	A4		sibility in simulation.	Fore	-	B# a4! a.u	horizontal space curre		ed o.o
Atmospheric			Mid	\dashv	Motion	SR 299; relatively high		Mid -	Atmospheric			Mid	-	Motion	by Hatchet Ridge turbi		1 1
			Back			through and local traffic	C.	Back x				Back			rotating blades would l	be visible.	Back x
	T =		VISUA	L Q	UALITY					T =	\	/ISUA	L QU				
	Score**	Ridge and valley compositi	on of N	1 ₀ unt	Notes	landscape is evident hi	ut develone	ed ridaeline		Score**	The partial visibility of proje	ct turbi	nes in	Notes	nortion of the view, and	nearing aho	ve and
Natural Harmony	3	and urban vegetation do no					•	od nagomio	Natural Harmony	3	beyond the supermarket pa			•		•	
Cultural Order	4	Development appears cond Within the urbanized foregr turbines limited to ridgeline	ound, backd	order rop.	r is typical of a co	mmercial portion of a sm	nall city or t	own. Existing	Cultural Order	4	Project turbines, though large their greater distance from the ridgeline backdrop, the integral to encroach on other feature.	the viev grity of es in th	wpoint. the ex ie view	. Because they would wou	would appear atop or be d be retained. No new	eyond the o	current would appear
Overall Coherence	4 1 1 1 1 1 1 1 1 1									4	Project turbines would expa visible. However, the structures. existing, similar structures. of the view.	ures wo	ould ap	opear consistent of turbines would	in appearance and at a d not substantially affec	a greater d	stance than all coherence
Landscape Composition and Vividness	3	Hatchet Ridge turbines are reduces their apparent scal would likely expect.	vivid, p	artic an an	cularly when operand orderly mountain	ating, but are visible here in town streetscape, typi	e from a dis	stance that	Landscape Composition and Vividness	3	With the project, a currently Additional turbines would at visible turbines do.	ttract vi	ewer a	attention, but wo	uld not be likely to do n	nore than t	ne existing,
Overall Visual Quality Score	3.5	Moderate. This view affords	s a viev	v of E	Burney's mountair	n backdrop,			Overall Visual Quality Score	3.5	Moderate. Project turbines substantially alter the visual			•			ce, would not

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[PROJECT NAME] - Assessment of Visual Effects

		Exi	sting (onditions							With	Project			
KOP 5b	Location	: North Burney				Photo 12	2-May-23	KOP 5b	Location	: North Burney		•		Date of	26-May-23
Landscape Unit o	r Type:	Mountain Communities		Viewer Type(s):	Residents, commuters	Date:	reationists	Landscape Unit o	r Type:	Mountain Communities		Viewer Type(s):	Residents, commuters	Eval: s, workers, re	ecreationists
•		osition to Project (Inferior,	Level, o		Southwest			•		osition to Project (Inferior	Level, c		Southwest		ferior
Viewpoint Descrip (Figure Caption):		View to the southwest from visible in the right third of the				Wind project to	urbines are	Viewpoint Descrip (Figure Caption):		Simulated view from KOP sturbines and be visible as of				eyond Hatch	net Ridge
		VI	SUAL CI	IARACTER						VISUAL	CHARA	CTER CONTRAST	Г		
N	atural En	vironment	Distance Zones *	С	ultural Environment		Distance Zones *	N	atural En	vironment	Distanc Zones	[]	ultural Environment		Distance Zones *
		cultural lands extend across	Fore x		A ranch appears visible		Fore -		No chang	ge with project.	Fore		No change with project	ct.	Fore
Land		.5 miles of the view. local ridgelines, and a	Mid x	Buildings	valley in the left half of partially obscured.	the view,	Mid x	Land			Mid	Buildings			Mid
		peak are all visible.	Back x	1	partially oboodied.		Back -				Back	7			Back
		reek runs across the view at	Fore -		A transmission corrido		Fore -		No chang	ge with project.	Fore		No change with project	ot.	Fore
Water	the far en	d of the valley, though it is table in view. Snow appears	Mid x	Infrastructure	descending the mountainthe center-right of the		Mid x	Water			Mid	Infrastructure			Mid
	atop a hig		Back x	1	Distribution lines in val		Back x				Back	7			Back
		s in foreground, backed by	Fore		Fence, gate, and other		Fore x		No chang	ge with project.	Fore		Project turbines would		
Vegetation		ks and mostly conifers along and middle- and back-	Mid	Structures	immediate foreground. distant ridgeline in righ			Vegetation			Mid	Structures	visible extending furth existing wind project.		
		f view, upslope.	Back	1	distant nagenne in ngn	it tillid of view	Back x				Back	7	identifiable by blades	only.	Back x
	NA		Fore		NA		Fore		NA		Fore		NA		Fore
Animals			Mid	Artifacts / Art			Mid	Animals			Mid	Artifacts / Art			Mid
			Back	1			Back				Back	7			Back
	Sunny		Fore		Active farmlands in for	•	Fore x			eric conditions did not affect	Fore		Additional turbines wo		Fore -
Atmospheric			Mid	Motion	(including moveable wanted) (including moveable wanted).		Mid x	Atmospheric	project vi	sibility in simulation.	Mid	Motion	visible motion along vibackground when bot		octs Mid -
			Back	1	in background, along r		Back x				Back		are operational.	n wina proje	Back x
		•	VISUAL	QUALITY						,	VISUAL	QUALITY			
	Score**			Notes					Score**			Notes			
Natural		The foothills and mountains in the valley, which itself ap		•	-	-	•	Natural		No change with Project.					
Harmony	5	view relate to both the woo					icit of the	Harmony	5						
		Disparate uses typical of a								From this portion of Burney					
Cultural Order	3	the roadway corridor, ag ed distribution line is detectable				•		Cultural Order	3	project, with new turbines a between KOP 5b and property.					
		Wind turbines and a cleare								between the proposed turb					111 3126
		Holistically, this is an agrar								The qualities of the existing				I coherence	would not be
Overall	5	with or supportive of cultiva components relegated to the			ial, with power generation	on and transm	nission	Overall	5	altered by the addition of tu	ırbines to	the left of existing to	urbines.		
Coherence		components relegated to the	C Dack of	the view.				Coherence							
Landscape		The view reflects a rural res						Landscape		Under current condtions, e.					
Composition	5	which contribute vividness ridgelines.	in a variet	y of colors, forms, a	and, within the mountain	nous backdrop	o, layered	Composition	5	characterized by the vividn visible turbines across half					
and Vividness		nageilles.						and Vividness		existing view, nor the level					Of tile
Overall Visual	†	Moderately high. The topog					ost /	Overall Visual	<u> </u>	Moderately high. The addit				inal extension	n of existing,
Quality Score	4.5	support human activities ra	ther than	be occupied or sub	stantially encroached up	oon by them.		Quality Score	4.5	similar structures. No other	changes	would be readily vis	sible.		
		1							1	1					•

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